

Cable Accessories

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Cable Ties

Pan-Ty® Natural and Weather Resistant Nylon 6.6 Cable Ties



- Available in Natural Nylon 6.6 or Black Weather and UV Resistant Nylon 6.6
- One piece construction with multiple locking tooth design for consistent performance, greater strength and reliability
- High loop tensile strength exceeds industry standards
- Flame retardant to UL94V-2
- UL Listed
- Lowest threading force of any one piece cable tie in the industry
- Bundle diameters up to 13" (330mm) or join together for larger diameters
- Miniature to standard cross sections feature a curved tip for easy threading and handling

- Finger tip grip assures positive grip & prevents tip from slipping out of head during threading

	Mftrs. List No.	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Pack Size	Order Code	
							Natural	Black
Sub-Miniature	PLT.6SM-C	71	1.8	15	36	100	129-6958	129-6997
Miniature	PLT.7M-C	79	2.3	17	80	100	129-6959	—
	PLT1M-C	99	2.5	22	80	100	129-6960	129-6998
	PLT1.5M-C	142	2.5	32	80	100	129-6961	129-6999
	PLT2M-C	203	2.5	51	80	100	129-6962	129-7000
Intermediate	PLT1.5I-C	142	3.6	35	178	100	129-6963	129-7001
	PLT2I-C	203	3.6	51	178	100	129-6964	129-7002
	PLT2.5I-C	246	3.7	64	178	100	129-6965	129-7005
	PLT3I-C	290	3.7	76	178	100	129-6967	129-7006
	PLT4I-C	368	3.7	102	178	100	129-6968	129-7007
Standard	PLT1S-C	122	4.8	25	222	100	129-6969	129-7008
	PLT1.5S-C	157	4.8	38	222	100	129-6970	129-7009
	PLT2S-C	188	4.8	48	222	100	129-6971	129-7010
	PLT2.5S-C	249	4.8	64	222	100	129-6972	129-7011
	PLT3S-C	292	4.8	76	222	100	129-6973	129-7012
	PLT4S-C	368	4.8	102	222	100	129-6974	129-7013
	PLT4.5S-C	394	4.8	114	222	100	129-6975	129-7014
	PLT5S-C	445	4.8	127	222	100	129-6976	129-7015
Light-Heavy	PLT6LH-CO	556	7.6	152	534	100	—	129-7017
	PLT8LH-C	701	7.6	203	534	100	129-6981	129-7019
Heavy	PLT2H-L	206	7.6	51	534	50	129-6984	129-7021
	PLT2.5H-L	251	7.6	64	534	50	129-6985	129-7022
	PLT3H-L	290	7.6	76	534	50	—	129-7023
	PLT4H-L	368	7.6	102	534	50	129-6987	129-7024
	PLT5H-L	450	8.9	127	778	50	129-6988	129-7025
	PLT6H-LO	530	8.9	152	778	50	—	129-7026
	PLT8H-L	779	8.9	229	778	50	129-6990	129-7027
Thousand Packs	PLT1M-M	99	2.5	22	80	1000	129-6993	129-7031
	PLT1.5I-M	142	3.6	35	178	1000	129-6994	129-7032
	PLT2S-M	188	4.8	48	222	1000	129-6995	129-7033

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Mftrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
Natural					
PLT.6SM-C	129-6958				
PLT.7M-C	129-6959				
PLT1M-C	129-6960				
PLT1.5M-C	129-6961				
PLT2M-C	129-6962				
PLT1.5I-C	129-6963				
PLT2I-C	129-6964				
PLT2.5I-C	129-6965				
PLT3I-C	129-6967				
PLT4I-C	129-6968				
PLT1S-C	129-6969				
PLT1.5S-C	129-6970				
PLT2S-C	129-6971				
PLT2.5S-C	129-6972				
PLT3S-C	129-6973				
PLT4S-C	129-6974				
PLT4.5S-C	129-6975				
PLT5S-C	129-6976				
PLT7LH-C	129-6979				
PLT8LH-C	129-6981				
PLT2H-L	129-6984				
PLT2.5H-L	129-6985				
PLT4H-L	129-6987				
PLT5H-L	129-6988				
PLT8H-L	129-6990				
PLT1M-M	129-6993				
PLT1.5I-M	129-6994				
PLT2S-M	129-6995				
Black UV Resistant					
PLT.6SM-CO	129-6997				
PLT1M-CO	129-6998				
PLT1.5M-CO	129-6999				
PLT2M-CO	129-7000				
PLT1.5I-CO	129-7001				
PLT2I-CO	129-7002				
PLT2.5I-CO	129-7005				
PLT3I-CO	129-7006				
PLT4I-CO	129-7007				
PLT1S-CO	129-7008				
PLT1.5S-CO	129-7009				
PLT2S-CO	129-7010				
PLT2.5S-CO	129-7011				
PLT3S-CO	129-7012				
PLT4S-CO	129-7013				
PLT4.5S-CO	129-7014				
PLT5S-CO	129-7015				
PLT6LH-CO	129-7017				
PLT7LH-CO	129-7018				
PLT8LH-CO	129-7019				
PLT2H-LO	129-7021				
PLT2.5H-LO	129-7022				
PLT3H-LO	129-7023				
PLT4H-LO	129-7024				
PLT5H-LO	129-7025				
PLT6H-LO	129-7026				
PLT8H-LO	129-7027				
PLT1M-MO	129-7031				
PLT1.5I-MO	129-7032				
PLT2S-MO	129-7033				

Cable Ties - continued

PAN-TY® Standard Coloured Cable Ties - Nylon 6.6



- Versatile fasteners can be used in countless applications wherever you need to secure wire, cable, hoses or pipes
- One-piece design means consistent quality and high reliability
- Flame retardant to UL94V-2
- All smooth edges, no risk of damage to the bundle
- More serrations per tie - flush to the surface provides proper grip with our compromising the bundle
- Curved tip allows easier installations, gets the job done faster
- Manufactured to Aerospace standards SAE-AS23190A (formerly MIL-S- 23190E) and SAE-AS33671 (formerly MS3367)

Mfrs. List No.	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Tensile Strength (lbs)	(N)	Pack Size
PLT2S	190	4.8	47	50	222	100
PLT4S	368	4.8	102	50	222	100

385696/438873

100 Per Pack

Mfrs. List No.	Colour	Order Code	1+	5+
PLT2S-C2	Red	117-9903		
PLT2S-C3	Orange	117-9904		
PLT2S-C4Y	Yellow	117-9905		
PLT2S-C5	Green	117-9906		
PLT2S-C6	Blue	117-9907		
PLT2S-C7	Purple	117-9908		
PLT2S-C8	Grey	117-9909		
PLT2S-C10	White	117-9910		
PLT4S-C2	Red	NEW 206-3511		
PLT4S-C3	Orange	NEW 206-3512		
PLT4S-C4Y	Yellow	NEW 206-3513		
PLT4S-C5	Green	NEW 206-3514		
PLT4S-C6	Blue	NEW 206-3515		
PLT4S-C8	Grey	NEW 206-3516		
PLT4S-C10	White	NEW 206-3518		

Price Per Pack

Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
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Cable Tie - Polyamide 6.6 - Black

Q30L-PA66-BK-C1	100	207-0797		
Q30LR-PA66-BK-C1	100	207-0798		
Q50R-PA66-BK-C1	100	207-0799		
Q50L-PA66-BK-C1	100	207-0800		
Q50L-PA66-BK-C1	100	207-0801		
Q120I-PA66-BK-C1	100	207-0802		
Q120R-PA66-BK-C1	100	207-0803		
Q120M-PA66-BK-C1	100	207-0804		

Cable Tie - Polyamide 6.6 - Natural

Q18R-PA66-NA-C1	100	207-0805		
Q18L-PA66-NA-C1	100	207-0806		
Q18L-PA66-NA-C1	100	207-0808		
Q30R-PA66-NA-C1	100	207-0809		
Q30L-PA66-NA-C1	100	207-0810		
Q30LR-PA66-NA-C1	100	207-0811		
Q50R-PA66-NA-C1	100	207-0812		
Q50L-PA66-NA-C1	100	207-0813		
Q50L-PA66-NA-C1	100	207-0814		
Q120I-PA66-NA-C1	100	207-0815		
Q120R-PA66-NA-C1	100	207-0816		
Q120M-PA66-NA-C1	100	207-0817		

Cable Tie - Heat Stabilised Polyamide 6.6 - Black

Q18R-HS-BK-C1	100	207-0818		
Q18L-HS-BK-C1	100	207-0821		
Q18L-HS-BK-C1	100	207-0822		
Q30R-HS-BK-C1	100	207-0823		
Q30L-HS-BK-C1	100	207-0824		
Q30LR-HS-BK-C1	100	207-0825		
Q50R-HS-BK-C1	100	207-0826		
Q50L-HS-BK-C1	100	207-0827		
Q50L-HS-BK-C1	100	207-0828		
Q120I-HS-BK-C1	100	207-0829		
Q120R-HS-BK-C1	100	207-0830		
Q120M-HS-BK-C1	100	207-0831		

Cable Tie - Heat Stabilised Polyamide 6.6 - Natural

Q18R-HS-NA-C1	100	207-0833		
Q18L-HS-NA-C1	100	207-0834		
Q18L-HS-NA-C1	100	207-0835		
Q30R-HS-NA-C1	100	207-0836		
Q30L-HS-NA-C1	100	207-0837		
Q30LR-HS-NA-C1	100	207-0838		
Q50R-HS-NA-C1	100	207-0839		
Q50L-HS-NA-C1	100	207-0840		
Q50L-HS-NA-C1	100	207-0841		
Q120I-HS-NA-C1	100	207-0842		
Q120R-HS-NA-C1	100	207-0843		
Q120M-HS-NA-C1	100	207-0845		

Cable Tie - UV Stabilised Polyamide 6.6 - Black

Q18R-W-BK-C1	100	207-0846		
Q18L-W-BK-C1	100	207-0847		
Q18L-W-BK-C1	100	207-0848		
Q30R-W-BK-C1	100	207-0849		
Q30L-W-BK-C1	100	207-0850		
Q30LR-W-BK-C1	100	207-0851		
Q50R-W-BK-C1	100	207-0852		
Q50L-W-BK-C1	100	207-0853		
Q50L-W-BK-C1	100	207-0854		
Q120I-W-BK-C1	100	207-0855		
Q120R-W-BK-C1	100	207-0857		
Q120M-W-BK-C1	100	207-0858		

Cable Tie Mount - Black

QM20-PA66-BK-C1	100	207-0859		
QM30-PA66-BK-C1	100	207-0860		
QM40-PA66-BK-L1	50	207-0861		

Cable Tie Mount - Natural

QM20-PA66-NA-C1	100	207-0862		
QM30-PA66-NA-C1	100	207-0863		
QM40-PA66-NA-L1	50	207-0864		

Cable Tie Mount - Adhesive - Black

QM20A-PA66-BK-C1	100	207-0865		
QM30A-PA66-BK-C1	100	207-0866		
QM40A-PA66-BK-L1	50	207-0867		

Cable Tie Mount - Adhesive - Natural

QM20A-PA66-NA-C1	100	207-0869		
QM30A-PA66-NA-C1	100	207-0871		
QM40A-PA66-NA-L1	50	207-0872		

Cable Ties and Mounts



NEW

The Q-tie has not only an innovative but also a revolutionary design. The open head of the cable tie enables a simple and quick installation. Just insert the ergonomically bent tail into the open side of the head and tighten the cable tie. Q-tie is the perfect product solution for applications under difficult working conditions. It is designed for use in applications where working with gloves is necessary or for blind applications with a limited view of the work.

- Material: PA6.6 (Polyamide 6.6)
- Cable tie mount operating temperature: -40°C to 85°C
- Cable tie operating temperature: -40°C to 85°C
- Adhesive: Synthetic rubber

Cable Ties

Type	Length (mm)	Width (mm)	Bundle Dia. Max. (mm)	Tensile Strength (N)
Q18R	105	2.6	24	80
Q18L	155	2.6	40	80
Q18L	195	2.6	50	80
Q30R	160	3.6	38	130
Q30L	200	3.6	50	130
Q30LR	250	3.6	65	130
Q50R	210	4.7	50	220
Q50L	290	4.7	75	220
Q50L	410	4.7	110	220
Q120I	300	7.7	70	530
Q120R	420	7.7	110	530
Q120M	520	7.7	145	530

Cable Tie Mounts

Type	Dimensions (mm)			Fixing Hole Dia. (mm)	Cable Tie Width Max. (mm)	Adhesive
	Length	Width	Height			
QM20	20	20	3.7	3.1	4	-
QM30	30	30	4.5	4.1	5.1	-
QM40	40	40	5.5	4.1	8.4	-
QM20A	20	20	3.7	3.1	4	Synthetic Rubber
QM30A	30	30	4.5	4.1	5.1	Synthetic Rubber
QM40A	40	40	5.5	4.1	8.4	Synthetic Rubber

647552

Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
Cable Tie - Polyamide 6.6 - Black					
Q18R-PA66-BK-C1	100	207-0793			
Q18L-PA66-BK-C1	100	207-0794			
Q18L-PA66-BK-C1	100	207-0795			
Q30R-PA66-BK-C1	100	207-0796			

High Temperature Cable Ties

HellermannTyton



These cable ties has been designed for the Ministry of Defence and Aircraft industry in co-operation with leading companies. With the properties this product claims it is ideal for high temperature applications. This performance will be well appropriate also for the drilling industry, railway, offshore or automotive industry. The PEEK Tie is an extraordinary product. It combines the mechanical performance and resistance to environmental influence of a metal tie with the ease of use of a polyamide cable tie.

NEW

- Material: PEEK (Polyetheretherketone)
- Operating temperature: -55°C to 240°C

Mftrs. List No.	Length (mm)	Width (mm)	Bundle Dia. (mm) Min.	Max.	Tensile Strength (N)	Colour	Order Code
PT2A	145	3.4	4	35	230	Beige	207-0791
PT220	220	4.7	8	56	380	Light Beige	207-0792

647534

Mftrs. List No.	Pack Qty	Order Code	1+	5+	10+
PT2A	100	207-0791			
PT220	100	207-0792			

Cable Ties with Ball Lock

HellermannTyton



The MBT series cable ties have a non-releasable locking mechanism that offers infinite adjustment along the length of the tie. The stainless steel ties are suitable for use in the most arduous conditions or where

NEW

additional security, strength, fire resistance and chemical resistance properties are required. Used in all industries - from mass transit, ship building, oil rigs, mining, chemical industries and many more.

- Material: Stainless Steel
- Coating: Polyester
- Operating temperature tie: -80°C to 538°C
- Operating temperature coating: -50°C to 150°C

Length (mm)	Width (mm)	Bundle Dia. (mm) Max.	Tensile Strength (N)	Pack Qty	Order Code Natural	Coated
127	4.6	25	540	100	207-0770	207-0778
201	4.6	50	540	100	207-0771	207-0779
362	4.6	102	540	100	207-0772	207-0780
521	4.6	152	540	100	207-0773	207-0781
201	7.9	50	1020	50	207-0774	207-0782
362	7.9	102	1020	50	207-0775	207-0783
521	7.9	152	1020	50	207-0776	207-0784

647495

Mftrs. List No.	Pack Qty	Order Code	1+	5+	10+
Natural					
MBT5S	100	207-0770			
MBT8S	100	207-0771			
MBT14S	100	207-0772			
MBT20S	100	207-0773			
MBT8H	50	207-0774			
MBT14H	50	207-0775			
MBT20H	50	207-0776			
Coated					
MBT5SFC	100	207-0778			
MBT8SFC	100	207-0779			
MBT14SFC	100	207-0780			
MBT20SFC	100	207-0781			
MBT8HFC	50	207-0782			
MBT14HFC	50	207-0783			
MBT20HFC	50	207-0784			

Cable Ties Inside Serrated

HellermannTyton



These cable ties all feature internal serrations allowing for a positive hold onto cable, hose and pipe bundles. The design of the head guarantees a high tensile strength whilst allowing a very low insertion force, this, combined with the bent tail design of many of the ties, ensures a simple and quick installation. Whilst easily installed by hand, manual and pneumatic (for high volume applications) tensioning tools are available to ensure a consistent and safe installation.

NEW

- Material: ETFE (Ethylentetrafluorethylen)
- Operating temperature: -80°C to 150°C

Mftrs. List No.	Length (mm)	Width (mm)	Bundle Dia. (mm) Max.	Min. Tensile Strength (N)	Order Code
T18R-ETFE-BU-C1	100	2.5	22	80	207-0873
T30R-ETFE-BU-C1	150	3.5	36	133.3	207-0874
T50R-ETFE-BU-C1	201	4.7	50	222.3	207-0875
T120R-ETFE-BU-L1	387	7.4	105	535	207-0876

647611

Mftrs. List No.	Pack Qty	Order Code	1+	5+	10+
T18R-ETFE-BU-C1	100	207-0873			
T30R-ETFE-BU-C1	100	207-0874			
T50R-ETFE-BU-C1	100	207-0875			
T120R-ETFE-BU-L1	50	207-0876			

Cable Tie Kit

HellermannTyton



- Includes stainless cable ties, ratchet installation tool and carry case
- Kit contains many popular sizes of cable ties
- Easy to use reversible tool
- Ideal for mechanical and electrical contractors and many other applications

NEW

Kit Contents:

Part	Length (mm)	Width (mm)	Bundle Dia. Max. (mm)	Min. Tensile Strength (N)	Qty
MBT14SS	362	4.6	102	900	30
MBT14HS	362	7.9	102	2000	30
MBT8HS	201	7.9	50	2000	20
MBT8SS	201	4.6	50	900	20
MBT5SS	127	4.6	25	900	20
THT Tool	-	-	-	-	1

647715

Mftrs. List No.	Order Code	1+	5+	10+
MBT KIT	207-0918			

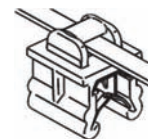
Fixing Ties

HellermannTyton

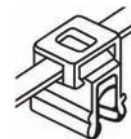


- Material cable tie: PA66HS
- Material foot: PA66HIRHS
- Colour: Black
- Operating temperature: -40°C to 105°C

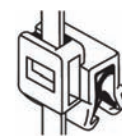
NEW



207-0877



207-0878



207-0879

Mftrs. List No.	Length (mm)	Width (mm)	Bundle Dia. Max. (mm)	Min. Tensile Strength (N)	Edge Thickness (mm)
T50ROSEC19-MC5-BK-D1	100	2.5	20	80	3 to 6
T50ROSEC4A-MC5-BK-D1	200	4.6	45	225	1 to 3
T50ROSEC5A-MC5-BK-D1	200	4.6	45	225	1 to 3

647621

Mftrs. List No.	Pack Qty	Order Code	1+	5+	10+
T50ROSEC19-MC5-BK-D1	500	207-0877			
T50ROSEC4A-MC5-BK-D1	500	207-0878			
T50ROSEC5A-MC5-BK-D1	500	207-0879			

Standard 'T' Ties

HellermannTyton



Standard 'T' Ties all feature internal serrations allowing for a positive hold onto cable, hose and pipe bundles. The design of the head guarantees a high tensile strength whilst allowing a very low insertion force, this combined with the bent tail design ensures a simple and quick installation.

- One-piece non-releasable BS EN ISO 9002 cable ties moulded in Nylon 66
- Flame retardant to UL94V-2
- Manufactured to US Mil. Spec. 23190 Drwg. 3367.

Mftrs. List No.	Length (mm)	Width (mm)	Maximum Bundle Dia. (mm)	Tensile Strength (lbs)	(kg)
T18R+colour	100	2.5	22	18	8.1
T18L+colour	144	2.5	33	18	8.1
T18L+colour	200	2.5	55	18	8.1
T30R+colour	150	3.5	35	30	13.6
T30L+colour	200	3.5	50	30	13.6
T30LL+colour	300	3.5	80	30	13.6
T50S+colour	150	4.8	36	50	22.7
T50R+colour	200	4.8	50	50	22.7
T50L+colour	300	4.8	81	50	22.7
T50LL+colour	390	4.8	109	50	22.7
T50M+colour	245	4.6	65	50	22.7
T50LL+colour	445	4.6	130	50	22.7
T120L+colour	300	7.6	75	120	54.4

Standard 'T' Ties - continued

Mfrs. List No.	Length (mm)	Width (mm)	Maximum Bundle Dia. (mm)	Tensile Strength (lbs)	Tensile Strength (kg)
T120R+colour	390	7.6	108	120	54.4
T120M+colour	465	7.6	130	120	54.4
T120XM+colour	600	7.6	175	120	54.4
T120L+colour	760	7.6	225	120	54.4
T150L+colour	600	7.6	175	120	54.4

449774

100 Per Pack

Price Per Pack

Mfrs. List No.	Colour	Order Code	1+	5+	10+	50+
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2.5mm Width

T18R-NAT(100 PACK)	Natural	116-8935				
T18R-BLACK(100 PACK)	Black	116-8943				
T18R-RED(100 PACK)	Red	116-8967				
T18R-BLUE (100 PACK)	Blue	116-8970				
T18R-GREEN (100 PACK)	Green	116-8973				
T18R-YELLOW (100 PACK)	Yellow	116-8977				
T18I-NAT(100 PACK)	Natural	116-9078				
T18I-BLK(100 PACK)	Black	116-9080				
T18L-NAT(100 PACK)	Natural	116-9081				
T18L-BLK(100 PACK)	Black	116-9082				

3.5mm Width

T30R-NAT(100 PACK)	Natural	116-8936				
T30R-BLACK (100 PACK)	Black	116-8944				
T30R-RED(100 PACK)	Red	116-8968				
T30R-BLUE (100 PACK)	Blue	116-8971				
T30R-GREEN (100 PACK)	Green	116-8974				
T30R-YELLOW (100 PACK)	Yellow	116-8978				
T30L-NAT(100 PACK)	Natural	116-9083				
T30L-BLK(100 PACK)	Black	116-9084				
T30LL-NAT(100 PACK)	Natural	116-8938				
T30LL-BLACK(100PACK)	Black	116-8946				

4.8mm Width

T50S-NAT(100 PACK)	Natural	116-9085				
T50S-BLK(100 PACK)	Black	116-9086				
T50R-NAT(100 PACK)	Natural	116-8937				
T50R-BLACK(100 PACK)	Black	116-8945				
T50R-RED(100 PACK)	Red	116-8969				
T50R-BLUE(100 PACK)	Blue	116-8972				
T50R-GREEN (100 PACK)	Green	116-8975				
T50R-YELLOW (100 PACK)	Yellow	116-8979				
T50I-NAT(100 PACK)	Natural	116-9088				
T50I-BLK(100 PACK)	Black	116-9089				
T50L-NAT(100 PACK)	Natural	116-8941				
T50L-BLK(100 PACK)	Black	116-9090				
T50L.NR3P	Red	129-6234				
T50L.NY3P	Yellow	129-6236				
T50L.NL3P	Blue	129-6238				
T50L.NG3P	Green	129-6239				
T50M.NN3P	Natural	129-6241				
T50LL.NN3E	Natural	129-6242				
T50M.NB3P	Black	129-6244				
T50LL.NB3P	Black	129-6245				

7.6mm Width

T120I-NAT(100 PACK)	Natural	116-9091				
T120I-BLK(100 PACK)	Black	116-9092				
T120R-NAT(100 PACK)	Natural	116-8942				
T120R-BLACK(100 PACK)	Black	116-8947				
T120M-NAT(100 PACK)	Natural	116-9093				
T120M-BLK(100 PACK)	Black	116-9094				
T120R.NR3P	Red	129-6235				
T120R.NY3P	Yellow	129-6237				

1000 Per Pack

T18R-NAT(1000 PACK)	Natural	116-8963				
T18R-BLK(1000 PACK)	Black	116-9095				
T30R-NAT(1000 PACK)	Natural	116-8965				
T30R-BLK(1000)PACK)	Black	116-9096				

50 Per Pack

T120XM.NN2P	Natural	129-6246				
T120L.NN2P	Natural	129-6247				
T120XM.NB2P	Black	129-6248				



TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

Multi-Ties

Natural and Black



These cable ties feature internal serrations allowing for a positive hold onto cable, hose and pipe bundles. The design of the head guarantees a high tensile strength whilst allowing a very low insertion force, this, combined with the bent tail design ensures a simple and quick installation.

- 500 ties in a storage jar
- Contents:
 - 100 x 2.5mm - Qty 200
 - 150 x 3.5mm - Qty 100
 - 200 x 4.6mm - Qty 200
- One-piece moulded Natural or Black Polyamide 6.6

526377

Mfrs. List No.	Colour	Order Code	1+	10+	25+	50+
HTJAR1BK	Black	167-4204				
HTJAR1NT	Natural	167-4205				

Cable Tie Bundle - Small Black



HTC1BK



400 Black Hellermann Tyton T-series ties and applicator tool in a handy carry case.

- Ties injection moulded in high grade nylon 6.6
- Superior quality, design and manufacture
- High tensile strength
- One piece, all plastic construction
- Quick simple, fixing by hand or using included installation tool

Kit contents:	Type	Colour	Overall length	Strap width	Min tensile strength		Max cable diameter	Qty
					lbs	N		
T18R	Black	100mm	2.5mm	18	80	22mm	200	
T30R	Black	148mm	3.6mm	30	135	35mm	100	
T50R	Black	150mm	4.6mm	50	225	35mm	100	
MK20 Tool	Blue	-	-	-	-	-	1	

449736/454395

Mfrs. List No.	Order Code	1+	10+	25+
HTC1BK	129-3516			

Cable Tie Bundle - Small Natural



HTC1NT



400 Natural Hellermann Tyton T-series ties and applicator tool in a handy carry case.

- Ties injection moulded in high grade nylon 6.6
- Superior quality, design and manufacture
- High tensile strength
- One piece, all plastic construction
- Quick, simple fixing by hand or using included installation tool

Kit contents:	Type	Colour	Overall length	Strap width	Min tensile strength		Max cable diameter	Qty
					lbs	N		
T18R	Natural	100mm	2.5mm	18	80	22mm	200	
T30R	Natural	148mm	3.6mm	30	135	35mm	100	
T50R	Natural	150mm	4.6mm	50	225	35mm	100	
MK20 Tool	Blue	-	-	-	-	-	1	

449737

Mfrs.	Price Each			
List No.	Order Code	1+	10+	25+
HTCC1NT	129-3517			

Cable Tie Bundle - Large Black HTCC1



- 2500 Black Hellermann Tyton cable ties in a handy carry case.
- Ties injection moulded in high grade nylon 6.6
 - Superior quality, design and manufacture
 - High tensile strength
 - One piece, all plastic construction
 - Quick, simple fixing by hand or using included installation tool

Kit contents:

Type	Colour	Overall length	Strap width	Min tensile strength		Max cable diameter	Qty
				lbs	N		
LK2A-Black	Black	275mm	4.6mm	50	225	73mm	400
T18R	Black	100mm	2.5mm	18	80	22mm	600
T30R	Black	148mm	3.6mm	30	135	35mm	600
T50R	Black	150mm	4.6mm	50	225	35mm	600
T50L	Black	380mm	4.7mm	50	225	110mm	300

449739

Mfrs.	Price Each			
List No.	Order Code	1+	10+	25+
HTCC1	129-3519			

Cable Tie Bundle - Large Coloured HTCC2



- 2300 Coloured Hellermann Tyton T-series ties and applicator tool in a handy carry case.
- Ties injection moulded in high grade nylon 6.6
 - Superior quality, design and manufacture
 - High tensile strength
 - One piece, all plastic construction
 - Quick, simple fixing by hand or using included installation tool

Kit contents:

Type	Colour	Overall length	Strap width	Min tensile strength		Max cable diameter	Qty
				lbs	N		
T18R	Natural	100mm	2.5mm	18	80	22mm	300
T18R	Red	100mm	2.5mm	18	80	22mm	300
T18R	Blue	100mm	2.5mm	18	80	22mm	300
T18R	Yellow	100mm	2.5mm	18	80	22mm	100
T30R	Black	148mm	3.6mm	30	135	35mm	300
T30R	Blue	148mm	3.6mm	30	135	35mm	200
T30R	Green	148mm	3.6mm	30	135	35mm	100
T50R	Natural	150mm	4.6mm	50	225	35mm	100
T50R	Green	150mm	4.6mm	50	225	35mm	200
T50R	Yellow	150mm	4.6mm	50	225	35mm	200
T50R	Red	150mm	4.6mm	50	225	35mm	200
MK20 Tool	Blue	-	-	-	-	-	1

449738

Mfrs.	Price Each			
List No.	Order Code	1+	10+	25+
HTCC2	129-3518			

Cable Ties



- One piece non-releasable cable ties manufactured in Natural or Black Nylon 66
- Flame retardant to UL94V-2

Operating temperature -40°C to +85°C

Length (mm)	Width (mm)	Min. Tensile Strength (kg)	Max. Bundle Dia. (mm)	Natural Order Code	Black Order Code
71	1.6	8	11	177-3454	177-3455
100	2.5	8	22	141-6039	141-6050
203	2.5	8	55	141-6040	141-6051
142	3.2	18	34	141-6041	141-6052
203	3.6	18	52	141-6043	141-6053
120	4.8	22	27	141-6044	141-6055
203	4.6	22	52	141-6045	141-6056
250	4.8	22	68	141-6046	141-6057
368	4.8	22	105	141-6047	141-6058
203	7.6	55	52	141-6048	141-6059
380	7.6	55	105	141-6049	141-6060

208013

Mfrs.	Price Per Pack				
List No.	Order Code	1+	5+	10+	25+
Natural	177-3454				
Natural	141-6039				
Natural	141-6040				
Natural	141-6041				
Natural	141-6043				
Natural	141-6044				
Natural	141-6045				
Natural	141-6046				
Natural	141-6047				
Natural	141-6048				
Natural	141-6049				
Black	177-3455				
Black	141-6050				
Black	141-6051				
Black	141-6052				
Black	141-6053				
Black	141-6055				
Black	141-6056				
Black	141-6057				
Black	141-6058				
Black	141-6059				
Black	141-6060				

Cable Ties



- The integrally formed Polyamide pawl combines low insertion and high locking strength
- A rounded, low-profile head makes for less snags
- Tails have improved two-sided finger grip design that helps the operator grasp and pull ties snug
- Sure Grip tab keeps the tail from popping out while being threaded, then holds it securely for final tightening by hand or tool
- Quick and easy pull through increases productivity, reduces operator fatigue
- Available in natural and black Polyamide 6.6
- Flame retardant to UL94V-2

Length (mm)	Width (mm)	Min. Tensile Strength (N)	Max. Bundle Dia. (mm)	Natural Order Code	Black Order Code
112	2.4	80	25	171-2170	171-2179
203	2.4	80	50	171-2171	171-2180
141	3.5	180	32	-	171-2181
290	3.5	180	76	171-2173	171-2182
186	4.6	220	44	171-2175	171-2185
291	4.6	220	76	171-2176	171-2186
366	4.6	220	102	171-2177	-
140	4.7	222	25.4	171-2174	171-2183
219	7.6	540	50	-	171-2187
375	7.6	540	102	171-2178	171-2188

535966

Mfrs. List No.	Order Code	1+	10+	25+	50+
Natural					
TY100-18-100C	171-2170				
TY200-18-100C	171-2171				
TY300-40-100C	171-2173				
P-5-50-9-CC	171-2174				
TY175-50-100C	171-2175				
TY300-50-100C	171-2176				
TY400-50-100C	171-2177				
TY400-120-100C	171-2178				
Black					
TY100-18X-100C	171-2179				
TY200-18X-100C	171-2180				
TY125-40X-100C	171-2181				
TY300-40X-100C	171-2182				
P-5-50-0-CC	171-2183				
TY175-50X-100C	171-2185				
TY300-50X-100C	171-2186				
TY200-120X-100C	171-2187				
TY400-120X-100C	171-2188				

IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items farnell.com

TY-RAP™ Cable Ties

Unique Feature



- Unique locking device: Stainless steel barb provides grip of steel at any diameter.
- User friendly: Turned up tapered tail speeds up assembly.
- Non-slip ribbed and stippled inner surface prevents tie rotation on bundle.
- Material selection: Natural coloured Nylon 66 for internal use. Black UV stabilised Nylon 66 for internal or external use.

Maximum Bundle Dia. (mm)	Length (mm)	Width (mm)	100 Pack Mfrs. List No.	1000 Pack Mfrs. List No.
16	92	2.3	TY523MR/MXR	TYB23M/MXR
32	140	3.6	TY524MR/MXR	TYB24M/MXR
44	186	4.7	TY525MR/MXR	TYB25M/MXR
76	281	3.6	TY526MR/MXR	TY26M/MXR
89	340	7.7	TY527MR/MXR	TY27M/MXR
102	360	4.8	TY528MR	TY28M

100 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	3+	5+
Natural				
TY523MR	123-0919			
TY524MR	123-0921			
TY525MR	123-0922			
TY526MR	123-0923			
TY527MR	123-0924			
TY528MR	123-0925			
Black				
TY523MXR	123-0926			
TY524MXR	123-0927			
TY525MXR	123-0928			
TY526MXR	123-0929			
TY527MXR	123-0930			
TY528MR/MXR	123-0932			

1000 Per Pack		Price Per Pack				
Mfrs. List No.	Order Code	1+	10+	30+	50+	100+
Natural						
TYB23M	121-2482					
TYB24M	121-2483					
TYB25M	121-2484					
TY26M	121-2486					
TY28M	121-2488					
Black						
TYB23MX	121-2489					
TYB24MX	121-2490					
TYB25MX	121-2491					
TY26MX	121-2492					
TY28MX	121-2494					

500 Per Pack		Price Per Pack			
Mfrs. List No.	Order Code	1+	5+	10+	30+
Natural					
TY27M	121-2487				
Black					
TY27MX	121-2493				

Canister Pack Cable Ties



- Assorted ties in a plastic canister
- One-piece moulded Nylon 6.6
- Flame retardant to UL94V-2

Canister contents:

CPR-300				
100 x 2.5:	100 each	BPE-850		
100 x 2.5:	25 each	100 x 2.5:	100 each	
203 x 3.2:	50 each	203 x 4.6:	300 each	
203 x 3.2:	25 each	280 x 4.8:	50 each	
CPR-400		BPR-650		
100 x 2.5:	100 each	100 x 2.5:	100 each	
203 x 3.2:	100 each	100 x 2.5:	50 each	
CPHR-1000		203 x 4.6:	300 each	
100 x 2.5:	100 each			

BPR-650		280 x 4.8:	50 each	
280 x 4.8:	50 each	BPR-1200		
BPSR-650		100 x 2.5:	200 each	
100 x 2.5:	100 each	100 x 2.5:	100 each	
180 x 3.6:	150 each	203 x 4.6:	400 each	
		280 x 4.8:	100 each	
BPR-1001		QPR-500		
100 x 2.5:	361 each	100 x 2.5:	100 each	
100 x 2.5:	50 each	100 x 2.5:	25 each	
203 x 4.6:	425 each	142 x 3.2:	100 each	
280 x 4.8:	65 each	180 x 3.6:	50 each	

BPR-1000		Operating temperature -40°C to +85°C			
100 x 2.5:	200 each	180	3.6	18	46
100 x 2.5:	100 each	203	3.2	18	53
203 x 4.6:	350 each	203	4.6	22	52
		280	4.8	22	77

Mfrs. List No.		Price Per Pack			
List No.	Order Code	1+	5+	10+	25+
CPR300 CANISTER PACK	126-8991				
CPR400 CANISTER PACK	126-8992				
CPHR1000 CANISTER PACK	126-8993				
BPE850 CANISTER PACK	126-8994				
BPR-650 CANISTER PACK	NEW 174-0456				
BPSR-650 CANISTER PACK	NEW 174-0457				
BPR-1001 CANISTER PACK	NEW 174-0458				
BPR-1000 CANISTER PACK	NEW 174-0459				
BPR-1200 CANISTER PACK	NEW 174-0460				
QPR-500 CANISTER PACK	NEW 174-0461				

PAN-TY® Miniature Cable Ties



- Nylon material for indoor use
- With perforated, tear-off tops
- Max bundle diameter of 21mm
- Max operating temperature of 85°C
- Overall length of 102mm
- Colour combinations match the universally accepted Even-Count Color Code
- Pocket pouch kit holds five (50-piece) packages and is made of a white vinyl

Mfrs. List No.		Colour	Pack Qty	Order Code	Price Per Pack/Kit		
					1+	5+	10+
PLT1M-L6-10	Blue / White	50	165-7336				
PLT1M-L3-10	Orange / White	50	165-7337				
PLT1M-L5-10	Green / White	50	165-7338				
PLT1M-L1-10	Brown / White	50	165-7340				
PLT1M-L8-10	Slate / White	50	165-7341				
Pocket Pouch Kits							
PP5X50F	Assorted	1	165-7335				

UV Resistant Coloured, Wide Cable Ties



- No protruding head to cause injury since head is inverted
- No protruding tie tip to cause injury since the tip is trapped between the tie and the foam
- Tie will not slip on the foam since the head will indent the foam to remain captive
- Cannot over-tension tie causing bulges in the foam
- No need to heat weld the ends closed
- No cut-off scrap pieces to handle or pick up
- Locking wedge is protected from unlocking and from ultraviolet light exposure

- Wide tie body 8.9mm for improved aesthetics
- Weather Resistant Nylon 6.6
- Available in 6 ultraviolet colours (to match the protective foam colours used in playground applications) that will last 2-3 times longer than normal pigmented colours

Colour	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
UV Red	358	8.9	100	500	101-5567
UV Yellow	358	8.9	100	500	101-5568
UV Blue	358	8.9	100	500	101-5569
UV Light Blue	358	8.9	100	500	101-5570
UV Purple	358	8.9	100	500	101-5571
UV Silver	358	8.9	100	500	101-5572
UV Pink	358	8.9	100	500	101-5573
UV Red	389	8.9	115	550	101-5574
UV Yellow	389	8.9	115	550	101-5575
UV Green	389	8.9	115	550	101-5578

419691/436607

100 Per Pack Order Code	Price Per Pack 1+	3+	100 Per Pack Order Code	Price Per Pack 1+	3+
101-5567			101-5572		
101-5568			101-5573		
101-5569			101-5574		
101-5570			101-5575		
101-5571			101-5578		

Heavy Duty Cable Ties



- One piece non-releasable cable ties manufactured in Natural or Black Nylon 66

Length (mm)	Width (mm)	Min. Tensile Strength (kg)	Max. Bundle Dia. (mm)	Natural Order Code	Black Order Code
230	12.7	114	57	177-3423	177-3428
280	12.7	114	73	177-3424	177-3429
380	12.7	114	105	177-3425	177-3430
480	12.7	114	137	177-3426	177-3431
550	12.7	114	166	177-3427	177-3432

549854

100 Per Pack Order Code	Price Per Pack 1+	5+	10+	25+
Natural	177-3423			
	177-3424			
	177-3425			
	177-3426			
	177-3427			
Black	177-3428			
	177-3429			
	177-3430			
	177-3431			
	177-3432			

'Heavy Duty' Ties



- One piece non-releasable BS EN ISO 9002 approved cable ties moulded in Nylon 66
- Flame retardant to UL94V-2. 'T' series manufactured to US Mil. Spec.23190 Drwg.3367.

Mfrs. List No.	Length (mm)	Width (mm)	Maximum Bundle Dia. (mm)	Tensile Strength (lbs)	(kg)
LK2A+ Colour	270	4.8	73	50	22.7
LK5+ Colour	540	13	152	250	113.4
T150M+ Colour	540	8.9	150	150	68
T250X+ Colour	370	12.5	100	250	113.4

208069

100 Per Pack Mfrs. List No.	Colour	Order Code	Price Per Pack 1+	5+	10+	25+	50+
LK2A-NAT	Natural	116-8955					
LK2A-BLACK	Black	116-8980					
LK5-NAT	Natural	116-9097					
LK5-BLK	Black	116-9098					
T150M-NAT	Natural	116-9100					
T150M-BLK	Black	116-9101					
T250X-BLK	Black	116-9102					

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High Temperature Cable Ties



- Ties injection moulded in high grade nylon 4.6
- Improved performance in high temperature applications
- 150°C for 10,000 hours
- 135°C continuous working temperature
- Can withstand intense heat for very short periods
- Ideal for electronics applications

Mfrs. List No.	Colour	Overall length	Strap width	Min tensile strength lbs	N	Max cable diameter	Pack Qty
T50L.RN3P	Natural	300mm	4.8mm	50	222	81mm	100
T50L.RN3P	Natural	390mm	4.7mm	50	225	110mm	100
T120R.RN3P	Natural	390mm	7.6mm	120	535	105mm	100

449772

Mfrs. List No.	Order Code	Price Per Pack 1+	5+	10+	50+
T50L.RN3P	129-6229				
T50L.RN3P	129-6230				
T120R.RN3P	129-6232				

High Temperature Cable Ties



PEEK Cable Ties and mounts are ideal for use in high temperature and harsh chemical environments. PEEK is a dimensionally stable material that offers an excellent tensile rating with an operating temperature up to 500°F (260°C). It is halogen free and has a UL94V-0 flammability rating, generating low smoke and toxicity upon burn, contributing to improved workplace safety. It has excellent chemical resistance to almost all organic and inorganic chemicals and is extremely resistant to high levels of gamma radiation for a long-term bundling solution. PEEK cable ties and mounts can be used in a broad range of applications and environments including Oil and Gas, Automotive and Aerospace.

Cable Ties

Mfrs. List No.	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Strength (N)	Pack Qty
PLT1M-C71	99	2.5	22	156	100
PLT1.5M-C71	147	2.5	35	156	100
PLT2S-C71	188	4.8	48	668	100

Cable Tie Mount

Mfrs. List No.	H	Dimensions (mm) W	D	Fixing Hole Dia. (mm)	Pack Qty
TM2S8-C71	7.1	16.2	10.8	4.7	100

610370

100 Per Pack Mfrs. List No.	Pack Qty	Order Code	Price Per Pack 1+	5+	10+
PLT1M-C71	100	182-6718			
PLT1.5M-C71	100	182-6719			
PLT2S-C71	100	182-6720			
TM2S8-C71	100	182-6721			

Weather Resistant Cable Ties



- For high moisture, corrosive (zinc chloride and dilute acids) and low temperature indoor or outdoor applications
- Acid rain and acid moisture acting on galvanised metals release chemicals known to attack nylon 6.6, to which nylon 12 provides superior resistance
- One-piece construction for consistent performance and reliability
- Lowest threading force of any one-piece cable tie in the industry
- Curved tip design on Intermediate and Standard cross section cable ties is easy to pick up from flat surfaces and allows faster initial threading to speed installation

- Max continuous use temperature 90°C (UL 746B)
- Min application temperature -60°C (EN 50146)

Mfrs. List No.	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Pack Size
PLT1.5I-M120	142	3.6	35	111	1000
PLT2S-M120	188	4.8	48	178	1000
PLT4S-M120	368	4.8	102	178	1000
PLT4H-TL120	368	7.6	102	400	250
PLT8LH-C120	701	7.6	203	400	100

Cable Ties - continued

Weather Resistant Cable Ties - continued

Mfrs. List No.	Pack Size	Order Code	Price Per Pack		
			1+	5+	10+
PLT1.5I-M120	1000	206-3417			
PLT2S-M120	1000	206-3418			
PLT4S-M120	1000	206-3419			
PLT4H-TL120	250	206-3420			
PLT8LH-C120	100	206-3421			

643289

Flame Retardant Cable Ties



- Flammability rating of UL94V-0 - indoor use
- UL Recognised and CSA Certified
- For applications where fire retardant properties are required to minimise fire propagation
- One-piece construction from high grade nylon for consistent performance and reliability
- Lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation (Light-Heavy cross section ties have a straight tip)
- Complementary flame retardant mounts available
- Max continuous use temperature 100°C (UL 746B)

● Min application temperature -60°C (EN 50146)

Mfrs. List No.	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Pack Size
Miniature Cross Section					
PLT1M-M69	102	2.5	22	80	1000
Intermediate Cross Section					
PLT1.5I-M69	142	3.6	35	178	1000
Standard Cross Section					
PLT2S-M69	188	4.8	48	222	1000
PLT4S-M69	368	4.8	102	222	1000
Light-Heavy Cross Section (Straight Tip)					
PLT4H-TL69	371	7.6	102	534	250

643293

Mfrs. List No.	Pack Size	Order Code	Price Per Pack		
			1+	5+	10+
PLT1M-M69	1000	206-3422			
PLT1.5I-M69	1000	206-3423			
PLT2S-M69	1000	206-3424			
PLT4S-M69	1000	206-3425			
PLT4H-TL69	250	206-3427			

Heat Stabilised Cable Ties



- For continuous temperature applications up to 115°C (UL 746B)
- Min application temperature -60°C (EN 50146)
- UL Listed and CSA Certified
- UL 94V-2 Material Flammability Rating
- One-piece construction from high grade nylon for consistent performance and reliability
- Lowest threading force of any one-piece cable tie in the industry
- Indoor use
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation (Light-Heavy cross section ties have a straight tip)

Mfrs. List No.	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Pack Size
Miniature Cross Section					
PLT1M-C30	99	2.5	22	80	100
Intermediate Cross Section					
PLT2I-C30	203	3.6	51	178	100
Standard Cross Section					
PLT2S-C30	188	4.8	48	222	100
PLT3S-C30	292	4.8	76	222	100
PLT4S-C30	368	4.8	102	222	100
Light-Heavy Cross Section					
PLT2H-TL30	206	7.6	51	534	250
PLT3H-TL30	290	7.6	76	534	250
PLT4H-TL30	368	7.6	102	534	250
Heavy Cross Section					
PLT5H-C30	450	8.9	127	778	100
PLT6H-C30	530	8.9	152	778	100
PLT8H-C30	779	8.9	229	778	100

643289

Mfrs. List No.	Pack Size	Order Code	Price Per Pack		
			1+	5+	10+
PLT1M-C30	100	206-3429			
PLT2I-C30	100	206-3430			
PLT2S-C30	100	206-3431			
PLT3S-C30	100	206-3432			
PLT4S-C30	100	206-3433			

Mfrs. List No.	Pack Size	Order Code	Price Per Pack		
			1+	5+	10+
PLT2H-TL30	250	206-3434			
PLT3H-TL30	250	206-3435			
PLT4H-TL30	250	206-3436			
PLT5H-C30	100	206-3437			
PLT6H-C30	100	206-3439			
PLT8H-C30	100	206-3441			

Fluorescent Cable Ties



- Designed for packaging and color-coding applications
- Ties are offered in four fluorescent colors: Orange, Yellow, Green and Pink
- One-piece construction for consistent performance and reliability
- Lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- Flammability Rating V-2
- Max continuous use temperature 85°C (UL 746B)

Length (mm)	Width (mm)	Max Bundle Dia. (mm)	Min. Tensile Str. (N)	Pack Size
203	3.6	51	178	1000

643344

Mfrs. List No.	Colour	Order Code	Price Per Pack		
			1+	5+	10+
PLT2I-M53	Orange	206-3584			
PLT2I-M54	Yellow	206-3585			
PLT2I-M55	Green	206-3586			
PLT2I-M59	Pink	206-3587			

Dome-Top® Barb-Ty Cable Ties



- Dome-top head features unique patented design with round, smooth edges
- High grade Nylon 6.6 Natural and UV Resistant Black materials
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- High grade natural nylon 6.6
- Low thread force; reduces installer fatigue; increases productivity
- Anti-slip strap body; Ribbed and stippled strap body prevents axial and lateral movement
- Exclusively designed finger grip assures positive grip during threading of tie
- Curved tip; Orients tip toward head for faster initial threading to speed installation; easy to pick up from flat surfaces (except Light-Heavy cross section ties have a straight tip)
- UL Listed
- Max continuous use temperature 85°C (UL 746B) and UL 94V-2 flammability rating
- Min application temperature -60°C (EN 50146)

100 Pack	1000 Pack	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)
Miniature Cross Section					
BT1M-C/CO	BT1M-M/MO	102	2.4	23	80
-	BT2M-M	201	2.4	51	80
Intermediate Cross Section					
BT1.5I-C/CO	BT1.5I-M/MO	155	3.6	38	178
BT3I-C/CO	BT3I-M/MO	287	3.6	76	178
Standard Cross Section					
BT2S-C/CO	BT2S-M/MO	203	4.7	51	222
-	BT3S-M	305	4.7	76	222
BT4S-C/CO	BT4S-M/MO	384	4.7	102	222
50 Pack	250 Pack	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)
Light-Heavy Cross Section					
BT1M-C/CO	BT1M-M/MO	378	7	102	534

643327

Mfrs. List No.	Pack Size	Order Code	Price Per Pack		
			1+	5+	10+
Natural					
BT1M-C	100	206-3544			
BT1M-M	1000	206-3546			
BT1.5I-C	100	206-3548			
BT1.5I-M	1000	206-3550			
BT2M-M	1000	206-3552			
BT2S-C	100	206-3553			
BT2S-M	1000	206-3556			
BT3I-C	100	206-3558			
BT3I-M	1000	206-3560			
BT3S-M	1000	206-3562			
BT4LH-L	50	206-3563			
BT4LH-TL	250	206-3565			
BT4S-C	100	206-3568			
BT4S-M	1000	206-3570			
UV Resistant Black					
BT1M-C0	100	206-3545			
BT1M-M0	1000	206-3547			
BT1.5I-C0	100	206-3549			
BT1.5I-M0	1000	206-3551			
BT2S-C0	100	206-3555			
BT2S-M0	1000	206-3557			
BT3I-C0	100	206-3559			
BT3I-M0	1000	206-3561			
BT4LH-L0	50	206-3564			
BT4LH-TL0	250	206-3567			
BT4S-C0	100	206-3569			
BT4S-M0	1000	206-3571			

Dome-Top® Barb-Ty Identification Ties



- Used to fasten and identify bundles at the same time
- Can be marked with Panduit PFX- and PX- series Marker Pens
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- High grade natural nylon 6.6
- Anti-slip strap body; Ribbed and stippled strap body prevents axial and lateral movement
- Exclusively designed finger grip assures positive grip during threading of tie
- Curved tip; Orients tip toward head for faster initial threading to speed installation; easy to pick up from flat surfaces (except Light-Heavy cross section ties have a straight tip)
- UL Listed
- Max continuous use temperature 85°C (UL 746B) and UL 94V-2 flammability rating
- Min application temperature -60°C (EN 50146)

Write on Area (mm)	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)
7.4 x 27.7	107	2.4	23	80

643926

Mfrs. List No.	Pack Qty	Order Code	Price Per Pack		
			1+	5+	10+
BM1M-C	100	206-3541			
BM1M-M	1000	206-3543			

Dome-Top® Barb-Ty Clamp Ties



- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
- High grade natural nylon 6.6
- Low thread force; reduces installer fatigue; increases productivity
- Anti-slip strap body; Ribbed and stippled strap body prevents axial and lateral movement
- Exclusively designed finger grip assures positive grip during threading of tie
- Curved tip; Orients tip toward head for faster initial threading to speed installation; easy to pick up from flat surfaces (except Light-Heavy cross section ties have a straight tip)
- UL Listed
- Max continuous use temperature 85°C (UL 746B) and UL 94V-2 flammability rating
- Min application temperature -60°C (EN 50146)

Mfrs. List No.	Nominal Hole Dia. (mm)	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Pack Size
BC1M-S4-M	3.1	117	2.4	23	80	1000
BC2S-S10-D	5.1	216	4.7	51	222	500

643321

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
BC1M-S4-M	206-3539			
BC2S-S10-D	206-3540			

Indoor/Outdoor Convenience Pack of Cable Ties



- Assorted ties pack, providing convenience for kitting and field engineers
- UL Recognised and CSA Certified ties
- High grade Natural nylon and black UV weather resistant nylon 6.6 ties
- One-piece construction with multiple locking tooth design for consistent performance, greater strength and reliability
- Lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation (Light-Heavy cross section ties have a straight tip)
- Max continuous use temperature 85°C (UL 746B) and UL 94V-2 flammability rating
- Min application temperature -60°C (EN 50146)

	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Qty
Natural Nylon 6.6					
PLT1M	102	2.5	22	80	15
PLT1.5I	142	3.6	35	178	15
PLT2S	188	4.8	48	222	15
PLT3S	292	4.8	76	222	15
Black Weather Resistant Nylon 6.6					
PLT1M-0	102	2.5	22	80	10
PLT1.5I-0	142	3.6	35	178	10
PLT2S-0	188	4.8	48	222	10
PLT3S-0	292	4.8	76	222	10

643295

Mfrs. List No.	Order Code	Price Per Kit		
		1+	5+	10+
KB-550	206-3428			

Flame Retardant Cable Ties



- One-piece non-releasable ties
- Manufactured from low toxicity flame retardant material
- BS EN ISO9002 approved, U.S. Mil. Spec.23190 Drwg.3367
- Applications, where it is essential to restrict spread of fire
- UL94V-0 recognised

Length (mm)	Width (mm)	Max Bundle Dia. (mm)	Tensile Strength (lbs) (kg)	Mfrs. List No.	Order Code
100	2.5	16	18 8.1	T18RV0(100 PACK)	116-9064
150	3.5	35	30 13.6	T30RV0(100 PACK)	116-9065
200	4.8	50	50 22.7	T50RV0(100 PACK)	116-9066
385	4.8	107	50 22.7	T50L.VN3P(100 PACK)	129-6233
390	7.6	108	120 54.4	T120RV0(100 PACK)	116-9067

449773

100 Per Pack	Max.	Price Per Pack						
L	W	Dia.	Order Code	1+	5+	10+	25+	50+
100	2.5	16	116-9064					
150	3.5	35	116-9065					
200	4.8	50	116-9066					
385	4.8	107	129-6233					
390	7.6	108	116-9067					

Weather Resistant Cable Ties



- One-piece non-releasable ties moulded in Black Nylon 66
- Flame retardant to UL94V-2
- UV stabilised

Operating temperature -40°C to +85°C (+105°C for short periods)

Mfrs. List No.	Length (mm)	Width (mm)	Maximum Bundle Dia. (mm)	Tensile Strength (lbs) (kg)
T18I-W	145	2.5	363535	188.1 8.1
T18R-W	100	2.5	222222	188.1 8.1
T30L-W	200	3.5	494949	3013.6 13.6
T30R-W	130	3.5	353535	3013.6 13.6
T40R-W	180	4	424242	4018.1 18.1
T40L-W	260	3.3	656565	4018.1 18.1
T50S-W	150	4.6	363636	5022.7 22.7
T80R-W	205	4.6	505050	8036.2 36.2
T80L-W	390	4.6	108108108	8036.2 36.2
111-15060	360	7.6	100100100	15068 68
LK5-W	540	13.2	152150150	250113.4 113.4



Weather Resistant Cable Ties - continued

208349

100 Per Pack		Price Per Pack			
Mfrs. List No.	Order Code	1+	5+	10+	50+
T18I-W	851-759				
T18R-W	851-723				
T30L-W	842-310				
T30R-W	851-772				
T40R-W	842-321				
T40L-W	842-333				
T50S-W	851-875				
T80L-W	851-851				
T80L-W	851-851				
111-15060	142-2975				
50 Per Pack		Price Per Pack			
LK5-W	851-930				

Weather Resistant Cable Ties



- High quality, durable Black ties
- Specifically manufactured for use in outdoor environments
- Manufactured from nylon 6/6 with added carbonate A
- Excellent resistance to ultra violet light
- UL recognised (E97527)

248702

100 Per Pack			Price Per Pack		
Length (mm)	Width (mm)	Order Code	1+	10+	50+
100	2.5	126-8999			
120	4.8	126-9000			
142	2.5	126-9001			
142	3.2	126-9002			
165	2.5	126-9003			
160	4.8	126-9004			
203	2.5	126-9005			
200	3.6	126-9006			
203	4.6	126-9007			
292	3.6	126-9009			
300	4.8	126-9011			
370	3.6	126-9012			
370	4.8	126-9013			
380	7.6	126-9014			

Heat Stabilised Cable Ties



- One-piece non-releasable ties moulded in Natural Nylon 66
- Flame retardant to UL94V-2

Operating temperature -40°C to +105°C (+145°C for short periods)

Mfrs. List No.	Length (mm)	Width (mm)	Maximum Bundle Dia. (mm)	Tensile Strength (lbs)
T18R-HS	102	2.5	22	188.1
T18L-HS	200	2.5	49	188.1
T30R-HS	150	3.6	35	3013.6
T50S-HS	151	4.8	36	5022.7
T40R-HS	179	4	42	4018.1
T30L-HS	200	3.6	49	3013.6
T30LR.HN3P	260	3.3	65	4018.1
T80R-HS	204	4.7	50	8036.2
T150R-HS	360	7.5	100	15068
T50I-HS	302	4.8	81	5022.7
LK5-HS	540	13	152	250113.4

208350

100 Per Pack		Price Per Pack			
Mfrs. List No.	Order Code	1+	5+	10+	50+
T18R-HS	851-711				
T18L-HS	851-735				
T30R-HS	851-760				
T50S-HS	851-863				
T40R-HS	851-796				
T30L-HS	851-784				
T30LR.HN3P	851-802				
T80R-HS	851-814				
T50I-HS	851-838				
LK5-HS	851-929				



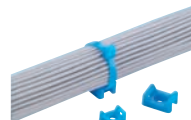
Panduit Polypropylene cable ties provide superior mechanical and chemical resistance to attack when exposed to various concentrations of salts, bases, and acids. In addition, they are buoyant in liquid applications and float to the surface where they can be seen and recovered.

Length (mm)	Width (mm)	Min. Tensile Strength (N)	Max. Bundle Dia. (mm)	Natural Order Code	Black Order Code
99	2.5	49	22	177-3698	177-3706
142	3.6	80	35	177-3699	177-3708
188	4.8	133	48	177-3700	177-3709
292	4.8	133	76	177-3701	177-3710
368	4.8	133	102	177-3702	177-3711
206	7.6	222	51	177-3703	177-3712
290	7.6	222	76	177-3704	177-3713
368	7.6	222	102	177-3705	177-3714

549934

Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
Natural					
PLT1M-M109	1000	177-3698			
PLT1.5I-M109	1000	177-3699			
PLT2S-M109	1000	177-3700			
PLT3S-M109	1000	177-3701			
PLT4S-M109	1000	177-3702			
PLT2H-TL109	250	177-3703			
PLT3H-TL109	250	177-3704			
PLT4H-TL109	250	177-3705			
Black (Weather Resistant)					
PLT1M-M100	1000	177-3706			
PLT1.5I-M100	1000	177-3708			
PLT2S-M100	1000	177-3709			
PLT3S-M100	1000	177-3710			
PLT4S-M100	1000	177-3711			
PLT2H-TL100	250	177-3712			
PLT3H-TL100	250	177-3713			
PLT4H-TL100	250	177-3714			

Tefzel Cable Ties



- Ideal for applications requiring resistance to environmental stresses such as chemical attack, gamma radiation, ultra-violet radiation and extreme high and low temperatures
- Ideal for use in nuclear power facilities and chemical processing plants and meets the requirements of IEEE 383
- Low smoke density and excellent flammability rating of UL 94V-0
- For indoor or outdoor use

Cable Ties

Mfrs. List No.	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Strength (N)	Pack Qty
Miniature Cross Section					
PLT1M-C76	102	2.5	22	80	100
PLT1M-M76	102	2.5	22	80	1000
Intermediate Cross Section					
PLT2I-C76	203	3.4	51	111	100
Standard Cross Section					
PLT2S-C76	188	4.8	48	222	100
PLT3S-C76	295	4.8	76	222	100
PLT4S-C76	371	4.8	102	222	100
Light-Heavy Cross Section (Straight Tip)					
PLT3H-L76	292	7.6	78	534	50
PLT4H-L76	371	7.6	102	534	50

Cable Tie Mounts

Mfrs. List No.	Dimensions (mm)			Fixing Hole Dia. (mm)	Pack Qty
	H	W	D		
TM2S8-C76	7	10.8	16	4.4	100
TM3S8-C76	9.4	15.5	21.7	4.4	100
TM3S10-C76	9.4	15.8	21.7	4.9	100

610383

100 Per Pack		Price Per Pack			
Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
Cable Ties					
PLT1M-C76	100	182-6722			
PLT1M-M76	1000	NEW 206-3583			
PLT2I-C76	100	182-6723			
PLT2S-C76	100	182-6725			
PLT3S-C76	100	182-6726			
PLT4S-C76	100	182-6727			
PLT3H-L76	50	182-6728			
PLT4H-L76	50	182-6729			
Cable Tie Mounts					
TM2S8-C76	100	182-6730			
TM3S8-C76	100	182-6731			
TM3S10-C76	100	182-6732			

Outside Serrated Cable Ties



Outside serrated cable ties are ideal for use in environments where soft insulation or thin-walled wires or cable are being installed and the need for a cable tie that won't cause damage to the cable insulation is required. The design offers high tensile strengths, low insertion forces and a smooth surface to the cable insulation - minimising any indentation or damage. The curved head allows the tie to follow the contours of the cable and takes up less space than conventional designs.

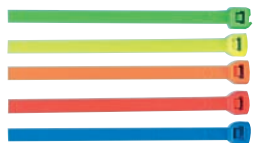
- Outside serrated design
- Manufactured from polyamide 6.6 heat stabilised (PA66HS)
- UL94 V2 recognised
- Applications, where thin walled or soft insulation wires and cables are being installed
- Operating temperature: -40°C to +105°C continuous, (+145°C for 500h)

Length	Width	Max Bundle Dia.	Tensile Strength (lbs)	Tensile Strength (kg)	Mfrs. List No.	Order Code
100mm	2.5mm	1.6 - 20mm	18	8.1	T18ROS.HB3P	129-6252
145mm	3.4mm	1.6 - 35mm	30	13.6	T30ROS.HB3P	129-6253
200mm	3.4mm	1.6 - 50mm	30	13.6	T30LOS.HB3P	129-6254
150mm	4.6mm	1.6 - 35mm	50	22.7	T50SOS.HB3P	129-6256
200mm	4.6mm	1.6 - 50mm	50	22.7	T50ROS.HB3P	129-6257
245mm	4.6mm	1.6 - 85mm	50	22.7	T50MOS.HB3P	129-6258
384mm	4.6mm	1.6 - 110mm	50	22.7	T50LOS.HB3P	129-6259

449775

100 Per Pack		Price Per Pack			
Mfrs. List No.	Order Code	1+	5+	10+	50+
T18ROS.HB3P	129-6252				
T30ROS.HB3P	129-6253				
T30LOS.HB3P	129-6254				
T50SOS.HB3P	129-6256				
T50ROS.HB3P	129-6257				
T50MOS.HB3P	129-6258				
T50LOS.HB3P	129-6259				

Fluorescent Cable Ties



- One piece non-releasable fluorescent cable ties moulded in Nylon 66
- Flame retardant to **UL94V-2**

Length (mm)	218
Width (mm)	3.3
Max. Bundle Dia. (mm)	50
Tensile Strength (lbs)	40

227491

100 Per Pack		Price Per Pack					
	Colour	Order Code	1+	5+	10+	25+	50+
P-8-40FL-11-C	Pink	127-9784					
P-8-40FL-16-C	Orange	127-9787					
P-8-40FL-17-C	Yellow	127-9788					
L-8-40FL-18-C	Green	127-9789					
P-8-40FL-20-C	Blue	127-9790					

P-8-40FL-11-C.	Pink	330-9927					
P-8-40FL-16-C.	Orange	330-9939					
P-8-40FL-17-C.	Yellow	330-9940					
P-8-40FL-18-C.	Green	330-9952					
P-8-40FL-20-C.	Blue	330-9964					

FREE GLOBAL LEGISLATION SUPPORT



RoHS, REACH, WEEE, ErP, Batteries Directive - latest updates, free white papers and live online Q&A at element14.com/legislation

Multi-Ties

Natural and Black



- 500 ties in a plastic storage jar
- Contents:
 - 200-111 x 2.4mm
 - 200-142 x 3.6mm
 - 100-188 x 4.7mm
- One-piece moulded Natural or UV resistant Black Nylon 6.6

H=266, W=114, D=108mm

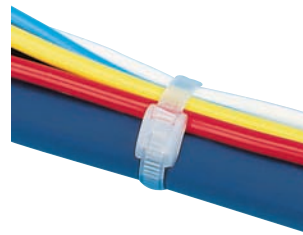
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500 Per Jar		Price Per Jar				
Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Natural JTN-500	121-2480					
Black JTB1-500	121-2481					

Safe-Ty™ Low Profile Ties



Natural and Black



- Low profile, contoured head reduces bundle clearance, enhances harness appearance
- Safe-guard wall on head eliminates exposure to sharp edges
- Curved saddle back design improves fit around bundle
- Natural or UV resistant Black Nylon 6.6 moulding

Maximum Bundle Dia.	Tensile Strength (kg)	Length	Width	Mfrs. List No.	Order Code	Mfrs. List No.	Order Code
25.4	8.16	118.11	2.41	SF100-18-100	121-2522	SF100-18X-100	121-2525
44.4	22.68	195.58	4.74	SF175-50-100	121-2523	SF175-50X-100	121-2526
50.8	8.16	205.74	2.41	SF200-18-100	121-2524	SF200-18X-100	121-2528

208304

100 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	3+	5+
Natural				
SF100-18-100	121-2522			
SF175-50-100	121-2523			
SF200-18-100	121-2524			
Black				
SF100-18X-100	121-2525			
SF175-50X-100	121-2526			
SF200-18X-100	121-2528			

HYPER-V™ In-Line Cable Ties and Mounts



- Fixed and flexible 2-wedge locking design
- Teeth on both sides of the cable tie body
- Releasable head position for temporary bundling
- In-Line tie design
- Rounded edges
- Bending serrations on the tip of the tie
- Manufactured in weather resistant Nylon 6.6

Mfrs. List No.	Length (mm)	Width (mm)	Max Bundle Dia. (mm)	Tensile Strength (N)
HV940-C0	173	8.9	40	552
HV965-C0	265	8.9	65	710
HV9100-C0	367	8.9	100	710

- Retaining tab within window
- Low profile design
- Rounded edges
- Barbs on masonry push mount
- Manufactured in weather resistant Nylon 6.6

Mfrs. List No.	Mounting Method	Length (mm)	Width (mm)	Hole Diameter (mm)
HVMPPM-08-C0	Tree Barb	35.1	-	8.0
HVTM-06-C0	M6 Screw or Tapered Rivet	20.6	17.3	5.9

485486

100 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	10+
HV940-C0	147-1655			
HV965-C0	147-1656			
HV9100-C0	147-1657			
HVMPPM-08-C0	147-1660			
HVTM-06-C0	147-1662			

Cable Ties - continued

Speedy Tie®

HellermannTyton



The SpeedyTie® can be used many times because of its removable, patented trigger. Also this is a heavy duty releasable tie that can bear loads of up to 888N (200lbs). With a length of 750mm it suits a wide variety of applications and is easy to handle even when wearing work gloves. Any excess tail can be easily 'tucked away' in a second slot on the head. These ties are available in 'high visibility' yellow and in

weatherproof black.

The versatility of the SpeedyTie® means that it is suitable for a multitude of applications. Originally developed for the 'offshore' industries, other uses include: construction, electrical installations, scaffolding sheet installations, exhibitions, trade fairs, and many more.

- Operating Temperature: -40°C to 85°C Continuous (105°C for 500h)
- Length = 750mm
- Width = 13mm
- Maximum Bundle Diameter = 210mm
- Supplied in Packs of 5

449785

Mfrs. List No.	Order Code	Price Per Pack			
		1+	6+	12+	24+
SPEEDY TIE, YELLOW	129-6273				
SPEEDY TIE, BLACK	107-9547				

Releasable Cable Ties

SPC pro-POWER



- One piece releasable cable ties manufactured in Natural or Black Nylon 66
- Flame retardant to **UL94V-2**
- Ideally suited for servicing/replacement or prototyping work

Operating temperature -40°C to +85°C

Length (mm)	Width (mm)	Min. Tensile Strength (kg)	Max. Bundle Dia. (mm)	Natural Order Code	Black Order Code
125	7.6	22	30	121-8017	126-9017
150	7.6	22	35	141-6065	141-6069
200	7.6	22	50	141-6067	141-6070
300	7.6	22	80	141-6068	141-6071

208054

100 Per Pack		Max. Dia.	Order Code	Price Per Pack			
L	W			1+	5+	10+	50+
Natural							
125	7.6	30	121-8017				
150	7.6	35	141-6065				
200	7.6	50	141-6067				
300	7.6	80	141-6068				
Black							
125	7.6	30	126-9017				
150	7.6	35	141-6069				
200	7.6	50	141-6070				
300	7.6	80	141-6071				

Releasable Cable Ties - UV Resistant

PANDUIT



- Weather resistant material has greater resistance to damage caused by ultraviolet light - indoor and outdoor use
- Heat stabilized material for high temperature applications up to 115°C
- Extended release tab permits easy release and re-use where changes are anticipated during development, production, or serving in the field
- One-piece construction for consistent performance and reliability
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

Mfrs. List No.	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Strength (N)	Pack Qty
Standard Cross Section					
PRT1S-C0	122	4.8	25	222	100
PRT1.5S-C0	160	4.8	38	222	100
PRT2S-C0	188	4.8	48	222	100
PRT3S-C0	292	4.8	76	222	100
PRT4S-C0	368	4.8	102	222	100
Light-Heavy Cross Section (Straight Tip)					
PRT2H-LO	213	7.6	51	356	50
PRT3H-LO	290	7.6	76	356	50
PRT4H-LO	368	7.6	102	356	50

610403

Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
PRT1S-C0	100	182-6733			
PRT1.5S-C0	100	182-6734			
PRT2S-C0	100	182-6735			
PRT3S-C0	100	182-6737			
PRT4S-C0	100	182-6738			
PRT2H-LO	50	182-6739			
PRT3H-LO	50	182-6740			
PRT4H-LO	50	182-6741			

Easy Release Cable Ties

HellermannTyton



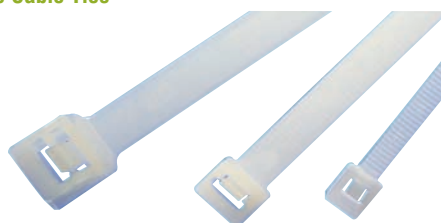
- Easy release cable ties moulded in Black Nylon 66
- Pinch release mechanism designed to be quick and simple to release

Mfrs. List No.	Order Code	Length (mm)	Width (mm)	Tensile Strength (lbs)	
				10+	25+
100 Per Pack					
REZ200	116-9009				
REZ300	116-9010				

231290

Releasable Cable Ties

HellermannTyton



Releasable cable ties are ideal where temporary installation or the addition or removal of cables is required, e.g Theatres, outdoor events or prototype harnessing work.

- Extended trigger for simple and quick release
- Manufactured from polyamide 6.6 (PA66)
- UL94 V2 recognised
- Applications, where temporary installation or the addition or removal of wires and cables are being installed
- Operating temperature: -40°C to +85°C continuous, (+145°C for 500h)

Length	Width	Max Bundle Dia.	Tensile Strength (lbs)	Tensile Strength (kg)	Pack qty	Mfrs. List No.	Order Code
200mm	4.6mm	50mm	50	22.7	100	RELK2R.NB3P	129-6260
250mm	4.6mm	65mm	50	22.7	100	RELK2M.NB3P	129-6262
250mm	4.6mm	65mm	50	22.7	100	RELK2M.NN3P	129-6263
300mm	4.6mm	80mm	50	22.7	100	RELK2I.NB3P	129-6264
300mm	4.6mm	80mm	50	22.7	100	RELK2I.NN3P	129-6265
350mm	4.6mm	95mm	50	22.7	100	RELK2L.NB3P	129-6266
350mm	4.6mm	95mm	50	22.7	100	RELK2L.NN3E	129-6268
770mm	8.9mm	225mm	50	22.7	50	RLT150.NB2P	129-6269
770mm	8.9mm	225mm	50	22.7	50	RLT150.NN2P	129-6270

449786

Mfrs. List No.	Colour	Order Code	1+	5+	10+	50+
RELK2R.NB3P	Black	129-6260				
RELK2M.NB3P	Black	129-6262				
RELK2M.NN3P	Natural	129-6263				
RELK2I.NB3P	Black	129-6264				
RELK2I.NN3P	Natural	129-6265				
RELK2L.NB3P	Black	129-6266				
RELK2L.NN3E	Natural	129-6268				
RLT150.NB2P	Black	129-6269				
RLT150.NN2P	Natural	129-6270				

Releasable Cable Ties

HellermannTyton



- Releasable cable ties moulded in Natural or Black Nylon 66
- Ideally suited to prototype work or installations where cable looms are constantly being added to or modified

Mfrs. List No.	REL100-BLACK(100 PACK) = 116-8948,	REL140-BLACK(100 PACK) = 116-8949,
	REL100-NAT(100 PACK) = 116-9074,	REL140-NAT(100 PACK) = 116-9076,
	REL250-BLACK(100 PACK) = 116-8950,	REL250-NAT(100 PACK) = 116-9077

224073

100 Per Pack	L (mm)	W (mm)	Max. Dia. (mm)	Order Code	Price Per Pack				
					1+	5+	10+	25+	50+
Natural	100	6.5	23	116-9074					
	140	7.5	35	116-9076					
	250	7.5	68	116-9077					
Black	100	6.5	21	116-8948					
	140	7.5	35	116-8949					
	250	7.5	68	116-8950					

TY-RAP™ Clamping Cable Ties



- A clamping version of the standard self-locking cable ties for applications requiring a more permanently secured cable harness

Mfrs. List No.	Length (mm)	Width (mm)	Mounting Hole Dia. (mm)	Price Per Pack
TY533M	101.6	2.3	3	
TY535M	198.4	4.7	5	

224079

Mfrs. List No.	Order Code	1+	5+	10+	25+
TY533M	123-0933				
TY535M	123-0934				

Mounting Cable Ties



- One-piece non-releasable cables ties designed for screw fixing onto a panel. Flame retardant to **UL94V-2**
- Manufactured to **MIL.SPEC.23190 DRG3367**. Available in Natural or Black

Length (mm)	Width (mm)	Max. Bundle Diameter (mm)	Fixing Hole (mm)	Tensile Strength (N)	Order Code
100	2.5	20	3.1	80	Natural 116-9072 Black 116-9073
395	7.6	102	6.5	535	177-4295

208088

Mfrs. List No.	Order Code	1+	5+	10+	25+
T18MR-NAT(100 PACK)	116-9072				
T18MR-BLK(100 PACK)	116-9073				
T120MR	177-4295				

Mounting Head Cable Ties



This range of one piece cable ties has a mounting hole fixing method. Once fastened around the cables the bundle can be simply secured to the panel with a screw or bolt. Ideal for fixing cables, pipes and hoses onto solid surfaces with pre-drilled holes or holes in metal plates.

These ties are used in many industries, for example: building construction, panel builders and white goods manufacturers.

Mfrs. List No.	Length (mm)	Width (mm)	Bundle Dia. Min. (mm)	Bundle Dia. Max. (mm)	Tensile Strength (N)	Fixing Hole Dia. (mm)
T30MR BLACK	160	3.5	1.5	32	135	4.3
T50MR BLACK	215	4.7	1.5	45	225	5.4

526394

Mfrs. List No.	Order Code	1+	10+	25+	50+
T30MR BLACK	167-4230				
T50MR BLACK	167-4231				

Blind/Through Wall Fixing Tie



Through hole Tie Disc $\varnothing = 21.8\text{mm}$

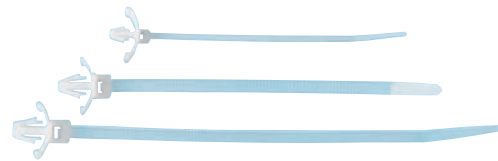
- One piece blind hole/through fixing cable tie, designed for metal, wood, brick and concrete
- Applications include automotive and others, where panel thickness is greater than 0.8mm
- Unit manufactured in Black Nylon 66

Length	Cable Tie Width	Max Bundle Dia. (mm)	Hole Dia. (mm)	Mfrs. List No.	Order Code
150mm	5mm	31	6.5 - 7.1	T50SDP6-BLK(25 PACK)	116-9068

208322

Pack Quantity	Order Code	1+	5+	10+	25+
Blind/Through	25				

Panel Fixing Ties Arrow Head



- One-piece non-releasable cables ties designed to secure harnesses, conduits and pipes etc. to panels. Easy to use, each tie includes a push in locking device for mounting into panel holes
- Manufactured to **MIL SPEC 23190 DRG 3367** and flame retardant to **UL 94 V-2**

Mfrs. List No.	Length (mm)	Width (mm)	Mounting Hole Dia. (mm)	Max. Panel Thickness (mm)	Order Code
T18RSF-NAT(100 PACK)	100	2.5	4.75	3	116-9069
T50SSL5-NAT(100 PACK)	135	4.6	6.2	2.7	116-9070
T50SL7-NAT(100 PACK)	165	4.6	7	2.5	116-9071

208086

Mfrs. List No.	Length (mm)	Width (mm)	Order Code	1+	5+	10+	25+	50+
T18RSF-NAT(100 PACK)	100	2.5	116-9069					
T50SSL5-NAT(100 PACK)	135	4.6	116-9070					
T50SL7-NAT(100 PACK)	165	4.6	116-9071					

Push Mount Cable Ties



- Easy to use, each tie includes a push in locking device for mounting into panel holes
- Manufactured from Nylon 66
- Flame retardant to **UL94-2**

Length (mm)	Width (mm)	Mounting Hole Dia. (mm)	Max. Panel Thickness (mm)	Colour	Order Code
132	4.8	6	2.8		174-0434
170	4.6	6	3		174-0435
201	4.8	6	2.8		174-0436
112	2.5	4.6	2.6		174-0437
133	4.8	4.6	4.5		174-0438
157	3.5	4.6	3		174-0439

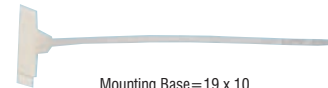
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Mfrs. List No.	Order Code	1+	5+	10+	50+
Natural					
132	174-0434				
170	174-0435				
201	174-0436				
Black					
112	174-0437				
133	174-0438				
157	174-0439				

Cable Tie with Integral Mounting Base



Self-adhesive



Mounting Base = 19 x 10

Mfrs. List No.	Length (mm)	Width (mm)	Max. Dia. (mm)	Order Code	1+	5+	10+	25+	50+
T18RSA-NAT(100 PACK)	100	2.5	16	116-8954					

224074

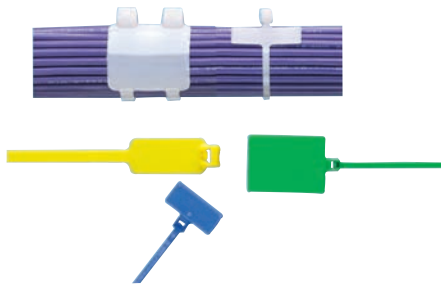
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Marker Cable Ties-Outdoor



- Used to fasten and identify bundles at the same time
- Can be marked with computer printable labels

Colour, Legend	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
Black- PLM1M	99	2.5	19	80	101-5587
Black- PLF1M	109	2.5	22	80	101-5589
Black- PLM2S	188	4.7	45	222	101-5591
Black- PL2M2S	188	4.7	45	222	101-5592
Orange- PLF1MA	130	2.5	22	80	101-5593
Yellow- PLF1MA	130	2.5	22	80	101-5594
Yellow- PLM2S	188	4.7	45	222	101-5595

419692/436608

100 Per Pack		Price Per Pack				
Order Code		1+	5+	10+	25+	50+
101-5587	●					
101-5589	●					
101-5591	●					
50 Per Pack						
101-5592	●					
100 Per Pack						
101-5593	●					
101-5594	●					
101-5595	●					

Mfrs. List No.	Order Code	1+	5+	10+	25+
100 Per Pack					
TY551M	123-0935	●			
500 Per Pack					
TY51M	121-2498	●			

Identification Cable Ties



- One piece non-releasable identification ties
- Manufactured in TO UL94V-2 flame retardant Natural Nylon 66
- Tag can be marked using self-adhesive labels or indelible marker pen

Length	Width	Min. Tensile Strength (kg)	Max. Bundle Dia.	Marker Tag Size	Order Code
100mm	2.5mm	8kg	25mm	8mm x 25mm	141-6064
110mm	2.5mm	8kg	25mm	8mm x 25mm	174-0426
130mm	2.5mm	8kg	25mm	20mm x 28mm	174-0425
200mm	2.5mm	8kg	50mm	15mm x 30mm	174-0429
200mm	4.6mm	22kg	50mm	13mm x 28mm	174-0427
270mm	4.6mm	22kg	75mm	13mm x 28mm	174-0431

FOR SUITABLE MARKER PEN SEE ORDER CODE 117-9865

224089

100 Per Pack		Price Per Pack					
L	W	Dia.	Order Code	1+	5+	10+	50+
100mm	2.5mm	25mm	141-6064	●			
110mm	2.5mm	25mm	174-0426	●			
130mm	2.5mm	25mm	174-0425	●			
200mm	2.5mm	50mm	174-0429	●			
200mm	4.6mm	50mm	174-0427	●			
270mm	4.6mm	75mm	174-0431	●			

Pan-Ty® Metal Detectable Cable Ties



PAN-TY® Metal Detectable Cable Ties and Mounts designed for food, beverage, and pharmaceutical industries to help meet product manufacturing safety standards and help reduce product contamination, loss and recall.

- PANDUIT metal detectable products help companies comply with European Union (EU) hygiene monitoring regulations and the U.S. Food and Drug Administration HACCP standards
- Featuring metal impregnated material totally throughout; ties are identifiable by metal detectors and x-ray inspection equipment
- Distinct blue colour per common industry practices provides easy identification on conveyor belts and in finished products

- Polypropylene material for use in processing and packaging areas where aggressive acid and alkaline chemicals are used to clean the equipment. Polypropylene offers superior resistance for long term durability
- Nylon material for general purpose (e.g. control panels and overhead cable runs) maintenance and repair applications)

Length (mm)	Width (mm)	Thickness (mm)	Bundle Diameter Max. (mm)	Order Code	
				Nylon	Polypropylene
Miniature cross Section					
100	2.5	1.1	22	147-1646	177-3683
Intermediate Cross Section					
203	3.4	1.2	51	147-1647	177-3684
Standard Cross Section					
186	4.8	1.4	47	147-1649	177-3685
291	4.8	1.4	76	147-1651	177-3686
366	4.8	1.4	102	147-1652	177-3687
Light-Heavy Cross Section (Straight Tip)					
282	7.6	1.9	76	147-1653	177-3688
366	7.6	1.9	102	147-1654	177-3691

485862

100 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	10+
PLT1M-C86	147-1646	●		
PLT2I-C86	147-1647	●		
PLT2S-C86	147-1649	●		
PLT3S-C86	147-1651	●		
PLT4S-C86	147-1652	●		
PLT1M-C186	177-3683	●		
PLT2I-C186	177-3684	●		
PLT2S-C186	177-3685	●		
PLT3S-C186	177-3686	●		
PLT4S-C186	177-3687	●		
50 Per Pack				
PLT3H-L86	147-1653	●		
PLT4H-L86	147-1654	●		
PLT3H-L186	177-3688	●		
PLT4H-L186	177-3691	●		

Identification Cable Ties



- Three versions of one piece non-releasable identification ties moulded in Natural Nylon 66 for easy identification of wire bundles, cable harnesses etc.
- Tag can be marked using self-adhesive labels, tapes or indelible marker pen.

Length (mm)	Width (mm)	Marker Tag Size	Maximum Bundle Dia. (mm)	Mfrs. List No.	Order Code
100	2.3	25 x 8mm	16	IT18R-NAT(100 PACK)	116-8983
110	2.3	20 x 9mm	16	IT18FL-NAT(100 PACK)	116-8984
200	4.6	27 x 12.5mm	50	IT50R-NAT(100 PACK)	116-9043

29mm x 2603mm 205 4.7 44
FOR SUITABLE MARKER PEN SEE ORDER CODE 117-9865

219615

100 Per Pack		Price Per Pack						
Length (mm)	Width (mm)	Dia. (mm)	Order Code	1+	5+	10+	25+	50+
100	2.3	16	116-8983	●				
110	2.3	16	116-8984	●				
200	4.6	50	116-9043	●				

TY-RAP™ ID Cable Ties



- Two sizes of self-locking TY-RAP cable ties allowing the engineer to identify particular cable arrangements

100 Pack			500 Pack	
Length (mm)	Width (mm)	Mfrs. List No.	Mfrs. List No.	
92	2.3	TY551M	TY51M	

Metal Content Tie

HellermannTyton



The HellermannTyton Metal Content Tie is a cable tie specifically designed for use in the food and pharmaceutical processing industries. A unique manufacturing process, involving the inclusion of a metallic pigment, enables the tie to be detected more readily than standard nylon ties.

Applications:

The HellermannTyton Metal Content Cable Tie Range is ideally suited for electrical cabling applications both on plant and within areas adjacent to the manufacturing process.

- Specifically designed for use in the food and pharmaceutical processing industries
- Nylon tie incorporating a metallic compound throughout
- Total metal dispersion throughout the body of the tie
- Can be part of the Hazardous Analysis of Critical Control Point (HACCP), a pro-active process control system by which food quality is ensured. This system has been adopted by many countries around the world and is mandatory in some
- Blue in colour, again to assist in detection
- Greatly reduces the risk of contamination
- Use HellermannTyton MK3/MK7/MK20 Tensioning Tools

Mftrs. List No.	Length (mm)	Width (mm)	Max. Bundle Diameter (mm)	Tensile Strength (N)
Non-Releaseable				
MCT30R	150	3.5	35	135
MCT50R	200	4.6	50	225
MCT50L	390	4.6	110	225
MCT120R	380	7.6	100	535
Releaseable				
MCTRELK2M	250	4.6	65	200

490847

100 Per Pack

Mftrs. List No.	Order Code	1+	5+	10+	25+	50+
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Non-Releaseable

MCT30R	150-3047					
MCT50R	150-3048					
MCT50L	116-9013					
MCT120R	177-4289					

Releaseable

MCTRELK2M	177-4290					
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Twist Tie On Base

Richco



- Designed for application where fixing holes would be impractical or unsightly
- Moulded in Natural Nylon 6/6
- The range covers cable diameters from 7.6 to 20.3mm

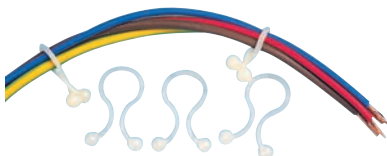
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100 Per Pack

Bundle Dia.	Height	Order Code	1+	5+	10+	50+
7.6 - 10.1mm	27.2mm	145-4797				
10.1 - 12.7mm	31.2mm	145-4798				
17.8 - 20.3mm	40.1mm	145-4799				

Re-Usable Twist Tie

SPC pro-POWER



224083

100 Per Pack

Bundle Dia. (mm)	Order Code	1+	5+	10+	50+
7-10	121-8019				
10-13	121-8020				
13-16.5	121-8021				
16.5-20	121-8022				
20-26	121-8023				

Cable Tie Mounts

Cable Tie Mount

SPC pro-POWER



- Saddle design provide maximum stability to wire bundles
- Manufactured from Natural UL approved Nylon 66 (UL94V-2)

Mftrs. List No.	Width (mm)	Depth (mm)	Height (mm)	Fixing Hole Diameter (mm)	Max. Cable Tie Width (mm)	Order Code
HC-1	15	10	7	3.5	5.1	177-3449
HC-1S	12.8	7	5.8	3.3	4	177-3450
HC-2	23	16	9.8	6.3	9	177-3451
HC-2S	23	16	9.8	5	9	177-3452
HC-2L	23	16	9.8	6.5	9	177-3453

549863

Mftrs. List No.	Order Code	1+	5+	10+	25+
HC-1	177-3449				
HC-1S	177-3450				
HC-2	177-3451				
HC-2S	177-3452				
HC-2L	177-3453				

Q-Tie Cable Tie Mounts

HellermannTyton

Screw Fixing



The Q-mount offers a perfect solution in combination with the Q-tie cable ties. It keeps the inserted cable tie in place during pre-assembly and ensures that the Q-tie does not slip out even in difficult situations, for example vertical mounting positions.

NEW

- Material: PA66
- For cable ties up to 5mm width
- The base is mounted with a screw with counter-sunk head (max. dia of head: 8mm)

Dimensions (mm)			Fixing Hole Dia. (mm)	Cable Tie Width Max. (mm)	Order Code	
Length	Width	Height			Black	Natural
21	9.5	6.7	4.5	5	207-0763	207-0764

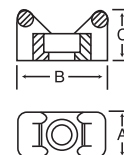
647492

Price Per Pack

Mftrs. List No.	Colour	Order Code	1+	5+	10+
CTQM5-PA66-BK-C1	Black	207-0763			
CTQM5-PA66-NA-C1	Natural	207-0764			

Cable Tie Mounts

HellermannTyton



- Natural and Black nylon cable tie mounts with single screw fixing.
- Suitable for use with cable ties of any width, up to the maximum, to ensure secure fixing of cable bundles.

Dimensions (mm)			Max Tie Width (mm)	Fixing	Mftrs. List No.	Order Code	
A	B	C			Natural	Black	
12	18	9	4.6	M4	KR6G5	116-9047	116-9011
14.5	25	12	7.6	M6	KR8G5	116-9048	116-9012

208094

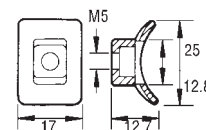
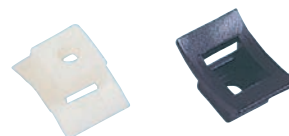
100 Per Pack

Order Code	1+	5+	10+	25+	50+
Natural					
116-9047					
116-9048					
Black					
116-9011					
116-9012					

Cable Tie Mounting Saddles

HellermannTyton

Natural and Black



- Natural or Black Nylon cable tie mounting saddles accepting cable ties up to 9.4mm wide
- Suitable for fixing bunched cables or plastic/metal conduit

Mftrs. List No. LKC-NAT(100 PACK) = 116-8956 LKC-BLK(100 PACK) = 116-8966

Cable Tie Mounts - continued

Cable Tie Mounting Saddles - continued

Natural and Black - continued

224076

Order Code	Price Per Pack				
	1+	5+	10+	25+	50+
Natural 116-8956					
Black 116-8966					

Cable Tie Mount

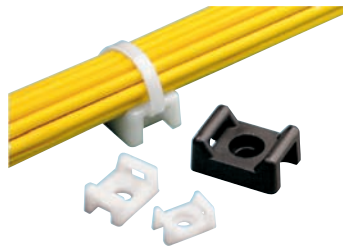


- Screw applied aluminum mounting base for a secure support in demanding applications
- Suitable for cable ties upto 4.8mm wide
- For indoor/outdoor use
- M5 Screw fixing (or #10 screw fixing)
- 4.54 kg Max Static Load
- UL Recognised (E136577)

Mfrs. List No.	Nominal Hole Diameter (mm)	Length (mm)	Width (mm)	Height (mm)	Min Loop Tensile Str. (N)	Pack Size
MBMS-S10-MY	5.1	25.4	12.7	3.6	80	1000

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
MBMS-S10-MY	206-3572			

Cable Tie Mounts - Screw Applied



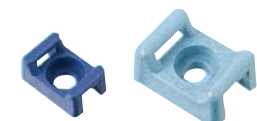
- Unique cradle design provides maximum stability for cable bundle
- Low profile design keeps bundle close to mounting surface where overhead space is limited
- Black mounts are Nylon 6.6 weather resistant material
- 1015707 is Polypropylene material (chemical resistance in the presence of hydrochloric acids, salts and bases)

Colour	Height (mm)	Length (mm)	Width (mm)	Hole Dia. (mm)	Mounting Method	Order Code
Natural	5.8	13	9.5	3.7	M3 Screw	101-5697
Black	5.8	13	9.5	3.7	M3 Screw	101-5702
Natural	7	16.1	10.8	4.5	M4 Screw	101-5698
Black	7	16.1	10.8	4.6	M4 Screw	101-5703
Natural	9.5	21.8	15.5	4.5	M4 Screw	101-5699
Black	9.5	21.8	15.5	4.6	M4 Screw	101-5704
Natural	9.5	21.8	15.8	5	M5 Screw	101-5700
Black	9.5	21.8	15.8	5	M5 Screw	101-5705
Natural	9.5	21.8	15.8	6.6	M6 Screw	101-5701
Black	9.5	21.8	15.8	6.6	M6 Screw	101-5706

419735/436627

Mfrs. List No.	Order Code	Price Per Pack	
		1+	3+
TM1S6-C	101-5697		
TM2S8-C	101-5698		
TM3S8-C	101-5699		
TM3S10-C	101-5700		
TM3S25-C	101-5701		
TM1S6-C0	101-5702		
TM2S8-C0	101-5703		
TM3S8-C0	101-5704		
TM3S10-C0	101-5705		
TM3S25-C0	101-5706		

Pan-Ty® Metal Detectable Cable Tie Mounts



PAN-TY® Metal Detectable Cable Ties and Mounts are designed to help the food, beverage, and pharmaceutical industries meet product manufacturing safety standards and help reduce product contamination, loss and recall.

- Featuring metal impregnated material totally throughout; mounts are identifiable by metal detectors and x-ray inspection equipment
- PANDUIT metal detectable products help companies comply with European Union (EU) hygiene monitoring regulations and the U.S. Food and Drug Administration HACCP



- standards
- Distinct blue colour per common industry practices provides easy identification on conveyor belts and in finished products, reducing waste due to product contamination
- Polypropylene material for use in processing and packaging areas where aggressive acid and alkaline chemicals are used to clean the equipment. Polypropylene offers superior resistance for long term durability
- Nylon material for general purpose (e.g. control panels and overhead cable runs) maintenance and repair applications.

Width (mm)	Length (mm)	Height (mm)	Fixing Diameter (mm)	Order Code	
				Nylon	Polypropylene
16	10.7	7	8.3	177-3695	177-3692
22	15.6	9.5	8.3	177-3696	177-3693
Used with Standard and Light-Heavy Cross Section Cable Ties					
22	15.6	9.5	9.8	177-3697	177-3694

549931

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
Polypropylene				
TM2S8-C186	177-3692			
TM3S8-C186	177-3693			
TM3S10-C186	177-3694			
Nylon				
TM2S8-C86	177-3695			
TM3S8-C86	177-3696			
TM3S10-C86	177-3697			

Cable Tie Mountings



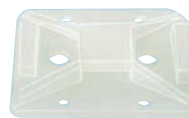
- Various cable tie mounting blocks for screw or self-adhesive fixing

Mounting Method	Order Code
Self-adhesive backing	121-2505
No. 8 countersunk screw	121-2506
No. 5 countersunk screw	121-2507
No. 6 (4BA) pan head screw	121-2508

224081

TC5347AR	121-2505	
TC102	121-2506	
TC104	121-2507	
TC5141	121-2508	

Self Adhesive Cable Tie Mount



TY adhesive mounts are designed for simple, yet robust installation in a wide variety of applications, in particular telecoms, switchgear and control cabinets. These products adhesive mounts are particularly suitable for applications with minimal space. They are used in conjunction with a range of cable ties to fix cables in place permanently.

Material	Polyamide 6.6 (PA66) + Acrylate adhesive				
Colour	Natural				
Operating Temperature	-40°C to +85°C				
Flammability	UL94 V2 (excluding adhesive)				

Mfrs. List No.	Length (mm)	Width (mm)	Height (mm)	Fixing Hole (mm)	Cable Tie Width Max. (mm)
TY8G1S	32	25	5.2	3.2	8

550596

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
TY8G1S	177-4296			

Cable Tie Mounting Bases



Natural and Black



- Natural or Black Nylon 66 cable tie mounting bases with self-adhesive and screw fixing options
- Bases accept tie insertion from all four sides

Basic Size (mm)	Tie Width Accommodation (mm)	Mounting Self-Adhesive or Screw (mm)	Mfrs. List No.		Order Code	
			Natural	Black	Natural	Black
13 x 13	2.5	—	MB2A	116-8981	116-9044	
19 x 19	2.5 - 4.5	2 x 3 dia.	MB3A	116-8951	116-9045	
28 x 28	2.5 - 5.5	2 x 3 dia.	MB4A	116-8953	116-9046	

224075

Order Code	Price Per Pack				
	1+	5+	10+	25+	50+
Natural					
116-8981					
116-8951					
116-8953					
Black					
116-9044					
116-9045					
116-9046					

Dynamic Cable Manager



Dimensions: L=28.4, W=28.4, H=16.8mm

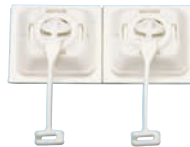
Panduit Dynamic Cable Manager Adhesive backed Mount reduces the strain that static mounts experience during the opening and closing of electrical cabinet doors. The cable mount remains stationary with a ball-and-socket tether transferring and absorbing the strain during assembly, installation, and transportation. The unique mount allows the panel door to be easily opened and closed and extends the service life of the adhesive in applications where bundle movement is unavoidable.

- Manufactured from White Nylon 6.6
- Operating temperature: -40°C to 49°C
- Rubber adhesive

549935

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
ABDCM30-A-C	177-3715			

Adhesive Backed Mounts



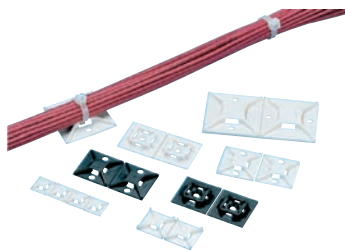
High bond adhesive backed mounts use multi-purpose acrylic adhesive on both sides of conformable foam. The adhesive provides excellent adhesion to a broad range of high and medium surface energy substrates including metals, glass, and a wide variety of plastics.

Mfrs. List No.	Used With Cable Ties	Dimensions (mm)		
		L	W	H
Heat Stabilized Weather Resistant Nylon 6.6				
SGABM20-AV-C300	SGM, SGI, M, I	19.1	19.1	4
SGABM25-AV-C300	SGM, SGI, SGS, M, I, S	25.4	25.4	5.1
SGABM30-AV-C300	SGM, SGI, SGS, M, I, S	28.4	28.4	4
Nylon 6.6				
ABDCM30-AV-C	M, I, S	28.4	28.4	16.8

610331

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
Heat Stabilized Weather Resistant Nylon 6.6				
SGABM20-AV-C300	182-6689			
SGABM25-AV-C300	182-6690			
SGABM30-AV-C300	182-6691			
Nylon 6.6				
ABDCM30-AV-C	182-6692			

4-Way Adhesive Backed Cable Tie Mounts



- Superior adhesive for long term reliability
- 2-up mount configuration speeds liner removal and installation
- 4-way cable tie entry makes part orientation fast and easy
- Adhesive backing allows routing of wires and cables where mounting holes cannot be drilled

Material	Colour	Height (mm)	Length (mm)	Width (mm)	Max. Static Load (g)	Adhesive	Order Code
Nylon 6.6	White	4	12.7	12.7	59	Rubber	101-5665
Nylon 6.6	White	4	12.7	12.7	59	Acrylic	101-5666
ABS	White	4.6	19.1	19.1	136	Rubber	101-5668
ABS	White	4.6	19.1	19.1	136	Rubber	101-5669
ABS	White	4.6	19.1	19.1	136	Acrylic	101-5670

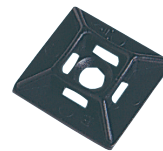
Material	Colour	Height (mm)	Length (mm)	Width (mm)	Max. Static Load (g)	Adhesive	Order Code
Weather Resistant ABS	Black	4.6	19.1	19.1	136	Acrylic	101-5671
Weather Resistant ABS	White	4.2	25.4	25.4	227	Rubber	101-5672
Weather Resistant ABS	Black	4.2	25.4	25.4	227	Rubber	101-5673
Weather Resistant ABS	White	4.2	25.4	25.4	227	Acrylic	101-5674
Weather Resistant ABS	Black	4.2	25.4	25.4	227	Acrylic	101-5675

419722/436619

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
25 Per Pack				
ABMM-A-Q	101-5669			
100 Per Pack				
ABM1M-A-C	101-5665			
ABM1M-AT-C	101-5666			
ABMM-A-C	101-5668			
ABMM-AT-C	101-5670			
ABMM-AT-CO	101-5671			
ABM2S-A-C	101-5672			
ABM2S-A-CO	101-5673			
ABM2S-AT-C	101-5674			
ABM2S-AT-CO	101-5675			

Cable Tie Mounting Bases

Natural and Black



- Natural or Black nylon 66 mounting bases, self-adhesive or central screw fixing
- Accepts ties from all four sides
- Flame retardant to **UL94V2**

Base size=28 x 28, Max. cable width=5, Mounting hole=5
208167

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
Natural	121-8024				
Black	121-8026				

Cable Tie Mounting Bases



- Natural or Black ABS plastic mounting bases with self-adhesive or central screw fixing options
- Accepts ties from all four sides

Operating temperature -15°C to +75°C

Base Size (mm)	Max. Cable Tie Width (mm)	Central Hole Dia. (mm)	Natural	Black
			Order Code	Order Code
19 x 19	3.6	4.3	268-690	268-719
25 x 25	4.8	4.3	268-707	268-720

208012

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
Natural	268-690				
	268-707				
Black	268-719				
	268-720				

Push In Twist Tie



- Fixing Hole Diameter: 7.9mm
- Panel Thickness: 6.4mm min.
- Moulded in Natural Nylon 6/6
- The range covers cable diameters from 7.6 to 20.3mm

621341

Bundle Dia.	Order Code	Price Per Pack		
		1+	5+	10+
7.6 - 10.2mm	186-3786			
10.2 - 12.7mm	186-3787			
17.8 - 20.3mm	186-3788			

Hook Mount Tie Holder



- Manufactured in Natural Nylon 6/6
- Supplied in Packs of 40



Cable Tie Mounts - continued

Hook Mount Tie Holder - continued

Mftrs. List No.	Fixing Type	Diameter (mm)	Cable Tie		Panel Thickness	
			Min. (mm)	Max. (mm)	Min. (mm)	Max. (mm)
FTH-15-01	Blind Hole	7.92	3.6	2.5	6.4	-
FTH-3-01	Snap In	4.75	6.7	2.5	1.19	2.77
FTH-6-01	Snap In	6.35	4.7	2.5	0.79	1.98

548701

40 Per Pack		Price Per Pack			
Mftrs. List No.	Order Code	1+	5+	10+	50+
FTH-15-01	176-5032				
FTH-3-01	176-5033				
FTH-6-01	176-5034				

Tie Mount



The LOK mounts are used indoors or outdoors in conjunction with any suitable cable tie up to 9mm wide. They can be used for anything from holding climbing plants to securing cables running between buildings. Suitable for use in a wide range of materials including concrete, brick and wood. They are simply installed by knocking them into a pre-drilled hole 7mm or 8mm, (depending on the material).

Material Colour		Polyamide 6 High impact modified (PA6HIR)	
Operating Temperature		-40°C to +105°C	
Flammability		UL94 HB	
Mftrs. List No.	Length (mm)	Width (mm)	Fixing Hole (mm)
LOK01	44	12	7 to 8
Cable Tie Width Max. (mm)		9	

550589

100 Per Pack		Price Per Pack			
Mftrs. List No.	Order Code	1+	5+	10+	50+
LOK01	177-4286				

Cable Tie Mount



MB screw fix mounts can be used in a wide variety of applications, in particular telecoms, switchgear and control cabinets. They are used with different widths of cable tie. These mounts have a low profile design which lend themselves well to applications where space is minimal.

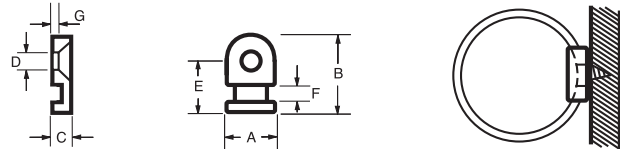
Material Colour		Polyamide 6.6 (PA66)	
Operating Temperature		-40°C to +85°C	
Flammability		UL94 V2 (excluding adhesive)	
Mftrs. List No.	Length (mm)	Width (mm)	Height (mm)
MB1	12.5	8	3.5
MB2	20.5	12.5	5
Cable Tie Width Max. (mm)		2.6	

550590

100 Per Pack		Price Per Pack			
Mftrs. List No.	Order Code	1+	5+	10+	50+
MB1	177-4287				
MB2	177-4288				

Cable Mount Bases

MB Series



Designed specifically for holding heavier cable bundles these mounting bases can be used in many industries from Agriculture to Truck manufacture, they offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 9mm wide. Simple to install with a screw or bolt they give excellent security, particularly in areas of high vibration. Single hole fixing with two-way entry for the cable tie

- Manufactured from polyamide 6.6 (PA66)
- Operating temperature -40°C to +85°C continuous (+105°C for 500h)
- UL94 V2 recognised

Mftrs. List No.	Length	Width	Height	Fixing hole diameter	Strap width Max.	Order Code
MB1	12.5mm	8mm	3.5mm	2.9mm	2.6mm	842-369

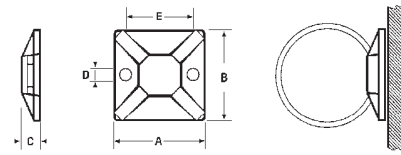
449787

100 Per Pack		Price Per Pack				
Mftrs. List No.	Order Code	1+	5+	10+	50+	+
MB1	842-369					

Cable Tie Bases

Series MB 3

Screwable or Self Adhesive



- The MB mounts offer 4-way entry for the cable tie enabling quicker and more flexible installation
- Simple to install with a screw or bolt they give excellent security, particularly in areas of high vibration
- 2-hole fixing and 4-way entry for the cable ties
- Very high pull off force is achieved with the specially developed adhesive

Material Colour		Polyamid 6.6 Natural	
Dimensions (mm)		Max. Tie Width (mm)	
A	B	C	D
19	19	3.8	3.1
E		13.2	
Max. Tie Width (mm)		3.6	

238817

100 Per Pack		Price Per Pack (100)	
Typ	Order Code	1+	5+
Screw Fixing			
MB3	823-119		
Self Adhesive			
MB3A	823-120		

Screw Applied-Low Profile Mounts



- Small overall size allows use where space is limited
- Install with a screw or rivet for a strong, secure installation
- Low profile design keeps bundle close to mounting surface where overhead space is limited

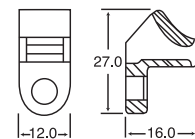
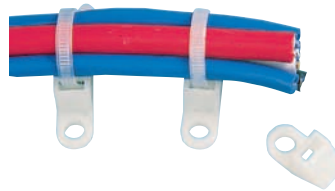
Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
2.5	10.2	8.1	3.5	M3 C/S Screw	101-4841
3	19.1	12.7	4.6	M4 C/S Screw	101-4842

419563/436447

100 Per Pack		Price Per Pack	
Mftrs. List No.	Order Code	1+	3+
LPMM-S5-C	101-4841		
LPMS-S8-C	101-4842		

Mounting Cradle

Harness Fabrication Use



- Designed for applications where it is necessary to fit the cradle to the cable tie, prior to anchoring down the harness
- The head of the tie is concealed within the cradle for added neatness
- Accepts cable ties up to 7.6mm wide
- Operating temperature: -40°C to +85°C continuous (+105°C for 500h)

Mftrs. List No.	Thread size	Material	Colour	Order Code
LKM-NAT(100 PACK)	M6	Nylon	Natural	116-9056
LKM.NB3P	M6	Nylon	Black	129-6278

449788

100 Per Pack		Price Per Pack				
Mftrs. List No.	Order Code	1+	5+	10+	25+	50+
LKM-NAT(100 PACK)	116-9056					
LKM.NB3P	129-6278					

Cable Tie Mounts

HellermannTyton

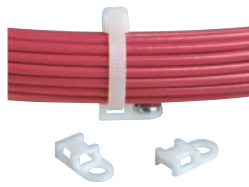


- Operating temperature: -40°C to 85°C
- Flammability: UL94 V2
- Manufactured in Natural Polyamide 6.6
- Supplied in packs of 100

Mfrs. List No.	Dimensions (mm)			Fixing Hole Dia. (mm)	Cable Tie Max. (mm)
	L	W	H		
TY3F1-N66-NA-M1	19	8	5.7	3.5	5
TY8F1-N66-NA-M1	22.4	10	5.8	4.5	8

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
TY3F1-N66-NA-M1	182-7035			
TY8F1-N66-NA-M1	182-7036			

Screw Applied-Tie Anchor Mounts



- 4-way cable tie entry makes part orientation fast and easy
- Install with a screw or rivet for a strong, secure installation
- Small overall size allows use where space is limited

Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
5.1	9.5	19	4.3	M4 Screw	101-4843
5.1	9.5	19	5.1	M5 Screw	101-4844

Mfrs. List No.	Order Code	Price Per Pack	
		1+	3+
TA1S8-C	101-4843		
TA1S10-C	101-4844		

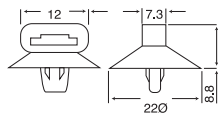
Hook Mount Tie Holder



- Used in pre-drilled 4.76 diameter holes in panels up to 2mm thick
- Manufactured in UL94V-0 flame retardant Natural Nylon 6/6
- To be used with 2.5mm wide cable ties
- Secures 2.5mm cable using cable tie teeth on head of mount

Order Code	Price Per Pack			
	1+	5+	10+	50+
145-4784				

Self-Fixing Cradles



- A one-piece self-fixing cradle for use with cable ties up to 8mm wide and in panels up to 1.8mm thick. Requires a 6.4mm diameter mounting hole
- Manufactured from Nylon 66

Order Code	Price Per Pack				
	1+	5+	10+	25+	50+
Natural 116-9057					
Black 116-9058					

Cable Accessories Maintenance Kit



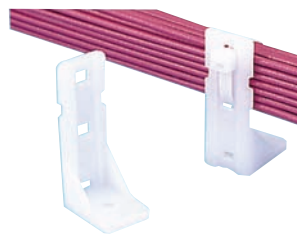
A practical 195 piece kit containing snapper hose clips, aluminium and plastic P-Clips, in addition to a variety of cable tie mounting bases and self adhesive clips. Ideal for use by electrical installers, maintenance engineers or laboratories.

NEW

Kit Contents Part No.	Qty Description	Kit Contents Part No.	Qty Description
201-10010	8 Cradle Clip C1	151-12819	10 Self Adhesive Clip TY8H1S
201-20020	8 Retaining Ring R2	151-26860	10 Cable Tie Mount CL8
151-13021	5 Self Adhesive Clip RA13	191-10100	10 Snapper Hose Clip SNP10
151-28349	10 Cable Tie Mount MB3A	211-15080	5 Aluminium Clip ALU8C
151-28459	7 Cable Tie Mount MB4CA	151-11813	10 Cable Tie Mount TY8G1S
151-75159	15 Wire Push in Clip WPC15	211-60007	7 Plastic Clip H8P
152-11209	10 Rivet Mount TY5K2	151-31209	40 Cable Tie Mount CTAM2
151-24660	20 Cable Tie Mount KR6G5	151-27019	10 Cable Tie Mount LKC
234-10200	10 Cable Restraint KK2		

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
BMS-100	207-0762			

Standoff Mounts



- Strong, sturdy post, supports wire bundles above or away from surface

Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
50.8	27.9	18.3	5.1	M5 Screw	101-4847
116.8	27.9	18.3	5.1	M5 Screw	101-4849

Mfrs. List No.	Order Code	Price Per Pack	
		1+	3+
PP1S-S10-X	101-4847		
PP2S-S10-X	101-4849		

Velcro Ties & Accessories

Tak-Ty™



- Releasable and reuseable hundreds of times
- No risk of damaging high performance cables
- No waste, excess can be wrapped around the bundle
- Complimentary mounts are available - see article number 101-5693 to 5696
- Can be used in air handling spaces
- Different styles available:

- Cinch rinf - for extra strength and bundle tightness
 - With Slot - allows for pre-wrapping of bundles
 - Rolls - you decide how long you need the strip to be
 - Stacked Strip blocks - eliminates cutting ties to length and staging them for each job
- Rounded edges for installer safety

Loop Ties	Length (mm)	Width (mm)	Min.	Max.	Mfrs. List No.
			Bundle Dia. (mm)	Bundle Dia. (mm)	
Loop Ties	203	12.7	6.4	48	HLT2I-X0
	305	12.7	6.4	81	HLT3I-X0
Cinching Ties	305	19.1	50.8	76.2	HLC3S-X0
	457	19.1	76.2	127	HLC5S-X0
Roll	4572	19	6.4	—	HLS-15Rx
Stacked Strips	178	19.1	—	41	HLB2S-C0

*Where x = colour, 0 Black, 2 Red, 3 Orange, 4 Yellow, 5 Green, 6 Blue, 8 Grey

Colour	Length (mm)	Order Code	Price Each / Pack			
			1+	10+	25+	100+
Loop Ties						
Black	203	117-9882				
Black	305	117-9884				
Cinching Ties						
Black	305	117-9885				
Black	457	117-9886				
4.5m Roll						
Black	4572	117-9887				
Red	4572	117-9888				
Orange	4572	117-9889				
Yellow	4572	117-9890				
Green	4572	117-9891				
Blue	4572	117-9892				
Grey	4572	117-9893				
Stacked Strips - 100 Per Pack						
Black	178	177-3716				

Velcro Ties



- Material hook: PP (Polypropylene)
- Material loop: Nylon
- Supplied in 10m lengths

NEW

- Reusable and easy to install
- Application: Cord and cable management (UTP/STP/Fibre), wire harnesses, prevent interruption to transfer speed when using traditional nylon cable ties

Velcro Ties - continued

630526

Colour	Mftrs.	Order Code	Price Each		
	List No.		1+	5+	10+
15mm Width					
Black	MGTP-15BK	189-1392			
White	MGTP-15WE	189-1393			
Red	MGTP-15RD	189-1394			
Yellow	MGTP-15YW	189-1395			
Blue	MGTP-15BE	189-1396			
Green	MGTP-15GN	189-1397			
20mm Width					
Black	MGTP-20BK	189-1398			
White	MGTP-20WE	189-1399			
Red	MGTP-20RD	189-1400			
Yellow	MGTP-20YW	189-1401			
Blue	MGTP-20BE	189-1402			
Green	MGTP-20GN	189-1403			

Hook and Loop Ties



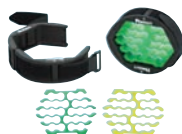
- Hook and loop ties available in 3 different styles
- Easy to release and reuse
- Ideal for use where frequent access is required and where over tightening is a concern
- Type A: Standard hook and loop tie with mounting hole
- Type B: Hook and loop tie with plastic loop for increased strength
- Type C: Hook and loop roll

Type	Length (mm)	Width (mm)	Colour	Order Code
Type A	203	12.7	Black	372-7701
Type A	305	12.7	Black	372-7713
Type B	305	19.1	Black	372-7725
Type B	457	19.1	Black	372-7737
Type C	4572	19	Black	372-7749
Type C	4572	19	Red	372-7750
Type C	4572	19	Blue	372-7786

232158

Colour	Length (mm)	Order Code	Price Each			
			1+	5+	10+	50+
Type A						
Black	203	372-7701				
Black	305	372-7713				
Type B						
Black	305	372-7725				
Black	457	372-7737				
Type C						
Black	4572	372-7749				
Red	4572	372-7750				
Blue	4572	372-7786				

Cable Bundle Organizing Tool



- Reduces cable installation time up to 50% compared to traditional methods
- Arrange cables in up to 24 positions for optimal bundle size and aesthetics
- Two inserts handle multiple network cable diameters
- Unique design allows twist-free bundling from the end or the middle of bundle
- Smooth edges; safe for use on network cables preventing cable abrasion
- Impact resistant material and low friction design to glide smoothly across cable bundle

Incert Colour	Cable Diameter Range (mm)
Fluorescent Green	4.57 - 6.30
Fluorescent Yellow	5.84 - 7.87

524522

Mftrs. List No.	Order Code	1+	5+	10+
CBOT24K	165-7321			



Quick and simple to use without the need for tools they have no waste, are corrosion free, are resistant to ageing and are reusable (up to 400 times). As cables use thinner and softer insulation, and as fibre optic cables become more common there is a need for a 'soft' method of bundling. The TEXTIE® are ideal for use on telephone cables, optical fibre and network cables up to Class 6. Perfect for use in temporary installations such as theatre stage construction or prototype cable harnesses.

Mftrs. List No.	Length	Width	Bundle Dia.	Pack Qty	Colour
TEXTIE S BLACK	150mm	12.5mm	45mm	10	Black
TEXTIE M BLACK	200mm	12.5mm	60mm	10	Black
TEXTIE M WHITE	200mm	12.5mm	60mm	10	White
TEXTIE M RED	200mm	12.5mm	60mm	10	Red
TEXTIE M YELLOW	200mm	12.5mm	60mm	10	Yellow
TEXTIE M GREEN	200mm	12.5mm	60mm	10	Green
TEXTIE L BLACK	330mm	12.5mm	100mm	10	Black
TEXTIE 5M	5m	12.5mm	-	-	Black

526401

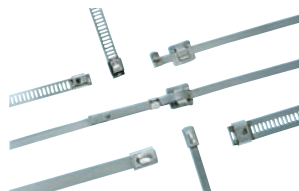
Mftrs. List No.	Order Code	Price Per Pack			
		1+	10+	25+	50+
TEXTIE S BLACK	167-4251				
TEXTIE M BLACK	167-4252				
TEXTIE M WHITE	167-4253				
TEXTIE M RED	167-4254				
TEXTIE M YELLOW	167-4255				
TEXTIE M GREEN	167-4256				
TEXTIE L BLACK	167-4257				
Price Each					
TEXTIE 5M	167-4258				

Stainless Steel/Aluminium Cable Ties

Stainless Steel Cable Ties



MBT series



The MBT (metal ball tie) range of stainless steel cable ties are manufactured from SS304, have good resistance against water, oils, a variety of solvents, alcohol and petrol. Type SS304 is for general, fire resistant fastening applications where a strong high tensile strength cable tie is required.

- Tie strap has safe, rolled edge dressing
- Manufactured from SS304
- Anti-magnetic
- Operating temperature -80°C to 538°C

Mftrs. List No.	Length	Width	Bundle dia (max)	Pack qty	Order Code
MBT5SS	127mm	4.6mm	25mm	100	129-3520
MBT8SS	201mm	4.6mm	50mm	100	129-3521
MBT14SS	362mm	4.6mm	102mm	100	129-3522
MBT14HS	362mm	7.9mm	102mm	50	129-3529
MBT27HS	681mm	7.9mm	203mm	50	129-3531

449735

Mftrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
MBT5SS	129-3520				
MBT8SS	129-3521				
MBT14SS	129-3522				
MBT14HS	129-3529				
MBT27HS	129-3531				
Processing Tool					
MK9SST	107-9528				

Stainless Steel Cable Ties



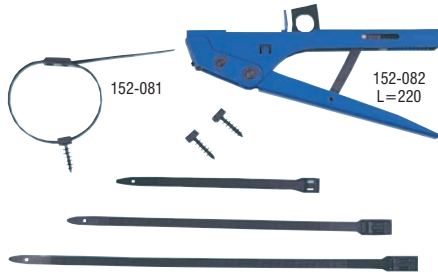
- Non-releasable cable ties manufactured from marine grade 316 stainless steel
- Tough and corrosion resistant
- Lightweight and easy to handle
- Operating temperature: -80°C to 538°C

Mftrs. List No.	Dimensions (mm)		Max. Bundle Dia. (mm)	Min. Tensile Strength (N)
	L	W		
MAT8SS7-SS-NA-C1	230	7	60	445
MAT12SS7-SS-NA-C1	330	7	90	445
MAT16SS7-SS-NA-C1	430	7	120	445
MAT24SS7-SS-NA-C1	630	7	180	445
MAT12SS12-SS-NA-C1	330	12	90	445
MAT24SS12-SS-NA-C1	630	12	180	445

610501

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
MAT8SS7-SS-NA-C1	182-7052			
MAT12SS7-SS-NA-C1	182-7053			
MAT16SS7-SS-NA-C1	182-7055			
MAT24SS7-SS-NA-C1	182-7056			
MAT12SS12-SS-NA-C1	182-7057			
MAT24SS12-SS-NA-C1	182-7058			

Low Profile Ties and Accessories



Black UV stabilised (Nylon 6) low 9mm profile head ties
Ideally suited for external use

- Use knock-in tie plug for fixed installation
- Heavy duty tool has separate cutting action lever
- Usable with all Hellermann ties 4.4 to 13mm wide

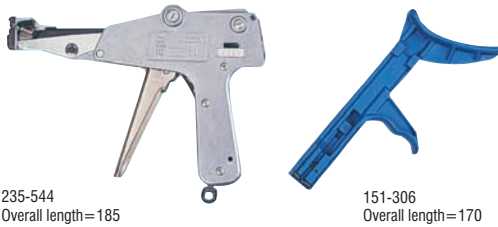
Mftrs. List No. LPH350 = 116-9003
MK10 = 152-082

224072

Length (mm)	Max. Dia. (mm)	Order Code	Price Per Pack			
			1+	5+	10+	25+
335	92	116-9003				

Description	Order Code	Price Each		
		1+	5+	10+
Heavy Duty Tool MK10	152-082			

Cable Tie Installation Tools



235-544
Overall length=185

151-306
Overall length=170

- Installation tools suitable for use with Hellermann cable ties. Either low cost hand controlled plastic tool, or standard metal tool with adjustable preset tensioner and automatic cutter

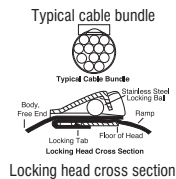
Mftrs. List No. MK20 = 151-306 MK3 = 235-544

624038

Description	Tie Width	Order Code	Price Each		
			1+	5+	10+
Plastic tool	2.5-4.8	151-306			
Metal tool	2.5-4.8	235-544			

PAN-STEEL™ Stainless Steel Ties

Locking Ball Mechanism



- Engineered for the most extreme applications.
- World's highest rated loop tensile strength.
- Aggressive head design provides higher retained tension to really secure that bundle.
- Patented ball locking design for additional security (improved vibration resistance).
- 30-year life span for installation you can rely on.
- Resists chemicals, radiation, weather and extreme temperature.
- Conforms to MIL-S-23190 requirements

Mftrs. List No.	Standard	Length (mm)	Width (mm)	Bundle Dia. (mm)	Tensile Strength		Order Code
					(lbs)	(kg)	
MLT1S-CP		127	4.4	25	200	45	117-9866
MLT2S-CP		200	4.6	50	200	45	117-9874
MLT2.7S-CP		259	4.4	69	200	45	117-9867
MLT4S-CP		360	4.6	102	200	45	117-9875
MLT6S-CP		520	4.4	152	200	45	117-9869
Heavy Duty							
MLT2H-LP		200	7.9	50	450	113	117-9877
MLT4H-LP		360	7.9	102	450	113	117-9878
MLT6H-LP		521	7.9	152	450	113	117-9873

208092/438839

Mftrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
Standard - 100 Per Pack				
MLT1S-CP	117-9866			
MLT2S-CP	117-9874			
MLT2.7S-CP	117-9867			
MLT4S-CP	117-9875			
MLT6S-CP	117-9869			
Heavy Duty - 50 Per Pack				
MLT2H-LP	117-9877			
MLT4H-LP	117-9878			
MLT6H-LP	117-9873			

Cable Ties



Coated Steel



- Innovative locking head construction
- Fully coated body construction
- Base 316 stainless steel with polyester coating
- Patented self-locking design

Standard Cross-Section

Mftrs List No.	Length (mm)	Width (mm)	Bundle Diameter (mm)		Thickness (mm)
List No.	(mm)	(mm)	Min (mm)	Max (mm)	(mm)
MLTFC2S-CP316	201	4.6	12.7	51	0.25
MLTFC4S-CP316	362	4.6	12.7	102	0.25

Heavy Cross-Section

Mftrs List No.	Length (mm)	Width (mm)	Bundle Diameter (mm)		Thickness (mm)
List No.	(mm)	(mm)	Min (mm)	Max (mm)	(mm)
MLTFC2H-LP316	201	7.9	12.7	51	0.25
MLTFC4H-LP316	362	7.9	12.7	102	0.25

485853

Mftrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
100 Per Pack				
MLTFC2S-CP316	147-1638			
MLTFC4S-CP316	147-1639			
50 Per Pack				
MLTFC2H-LP316	147-1642			
MLTFC4H-LP316	147-1643			

Stainless Steel Mounting Clips



- Mounting clip manufactured in AISI 302/304 stainless steel
- Ideal for use with Panduit Stainless Steel ties.
- Matched performance for lifelong service.

Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
22.6	10.2	4.4	4mm Screw	147-1675
22.6	10.2	5.4	5mm Screw	147-1676
22.6	10.2	7.14	6mm Screw	117-9879

208084

Mftrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
100 Per Pack				
MTM1H-C	147-1675			
MTM1H10-C	147-1676			
MTM1H25-C	117-9879			

Cable Tie Installation Tools

Installation Tool



- Used in production, maintenance, or construction applications
- Tool controlled tension provides flush cut-off and speeds installation to lower installed cost
- Lightweight and balanced
- Easy to change tension adjustment and easy to operate
- No special maintenance required

Cable Tie Installation Tools - continued

Installation Tool - continued

Mfrs. List No.	Install Cable Tie Cross Section	Description
GS2B	Miniature, Intermediate, Standard	Metal tool with a durable powder coat finish.
GS2BL	Miniature, Intermediate, Standard	Metal tool with a durable powder coat finish. Shorter handle reach (than GS2B) for users with smaller hands.
GS4H	Standard, Heavy-Standard, Light-Heavy, Heavy	Metal tool with a durable powder coat finish.
GS4H121W	Light-Heavy, Heavy	
GS4EH	Light-Heavy, Heavy, Extra-Heavy	Metal tool with a durable powder coat finish.

610360

Mfrs. List No.	Order Code	1+	5+	10+
GS2B	182-6713			
GS2BL	182-6714			
GS4H	182-6715			
GS4H121W	182-6716			
GS4EH	182-6717			

Cable Tie Installation Tools



- Economical series of tools for maintenance or construction applications
- Install cable tie around bundle and tension tie by squeezing tool handle
- Reduce tension slightly and twist tool 1/4 turn either direction to cut off excess cable tie
- With 1015662, Install cable tie around bundle and tension tie by squeezing tool handle. A separate lever cuts off excess cable tie
- Excellent tool for low volume applications

Colour	Tie Width (mm)	Order Code
Black	upto 4.6	101-5659
Red	4.6 - 8.9	101-5660
Blue / Black	7.6 - 12.7	147-1677
Yellow	7.6 - 8.9	101-5662

419707/436617

Order Code	1+	3+
101-5659		
101-5660		
147-1677		
101-5662		

Installation Tools

Manual or Automatic



Manual

Automatic

- Two hand tools for use with PAN-STEEL™ stainless steel ties. Both types are single handle operation for easy use and installation
- **ST2MT** - Tensioning is operator controlled. Tie is cut by twisting the tool
- **GS4MT** - Tensioning and cut off is automatic when predetermined tension is reached by squeezing trigger
- Both suitable for either standard or heavy duty ties

208083/438608

Mfrs. List No.	Order Code	1+	10+
ST2MT	592-778		
GS4MT	592-780		

Installation Tools



- Lightweight, ergonomic design speeds installation and reduces operator fatigue and repetitive motion injuries
- Flush tie cut-off eliminates sharp edges and improves safety by preventing damage to adjacent wire bundles and injury to workers' hands and arms

Mfrs. List No.	Install Cable Tie Cross Section	Description
GTS	Subminiature, Miniature, Intermediate, Standard	Trigger Handle: Black, Selector Knob: Black, Cushioned Handle: Black. Body: Gray, Weight: 9.8 oz. (278 g)
GTSL	Subminiature, Miniature, Intermediate, Standard	Ergonomic design with impact resistant resin housing, narrow nose, and cushion handle. Shorter handle reach (than GTS) for users with smaller hands. Weight 8.8 oz. (249g)
GTH	Standard, Heavy-Standard, Light-Heavy, Heavy	Trigger Handle: Red, Selector Knob: Red, Cushioned Handle: Red. Body: Gray, Weight: 12.0 oz. (340 g)

GHH Hand Tool Holster

- Designed to hold GT series tools
- Used wherever the hand tools are used - from construction sites to assembly lines for a convenient and handy place for the tool
- All leather and rivet construction for durability
- Extra tie-down strap holds tool in place
- Easily fits on belt

485560

Mfrs. List No.	Order Code	1+	5+	10+
GTS	147-1679			
GTSL	147-1680			
GTH	147-1681			
GHH	147-1682			

Tensioning Tool



- Economical
- Coiled tie end remaining after tensioning assures a safe end
- No sharp edges
- Manual tension, no cut-off
- Installs ties parallel to the bundle

Used with standard, light-heavy, and heavy cross section Pan-Steel® type MLTC/MLTFC coated ties, and type MLTDH double wrapped ties

485548

Mfrs. List No.	Order Code	1+	5+	10+
HTMT	147-1678			

MK7 Cable Tie Installation Tool



The MK7 Cable Tie Installation Tool with its ergonomic design can be used anywhere. The casing is made of glass fibre reinforced polyester making it extraordinarily light. The MK7 is a state of the art tool for applying HellermannTyton cable ties up to a width of 4.8mm. The MK7 has a three level preset tension device for quick adjustment. Further adjustment is possible within each level. MIL approved.

- For use with T18, T25, T30, T40, T50, T50M sizes of Hellermann Cable Ties
- Maximum Strap Width = 4.8mm
- Maximum Strap Thickness = 1.5mm

449781

Mfrs. List No.	Order Code	1+	5+	10+
MK7.9A	129-6250			

MK9 Cable Tie Installation Tool



The MK9 for applying HellermannTyton cable ties up to a width of 13.5mm, is characterised by its very light weight and ergonomic design. Like the MK7, the housing is made of resilient and light weight glass fibre reinforced polyester. The MK9 has two preset tension levels and a device for fine adjustment. MIL approved.

- For use with T80 or larger sizes of Hellermann Cable Ties
- Maximum Strap Width = 13.5mm
- Maximum Strap Thickness = 2.0mm

449784

Mfrs. List No.	Order Code	1+	5+	10+
MK9.9A	129-6251			

TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

Cable Tie Installation Tools



ERG50 and ERG120

- Lightweight with adjustable grip for small or large hands
- Rotating head for left or right handed users
- ERG50 (black handle) covers tie widths 2.4mm to 4.8mm, tensile ratings 80N to 220N

- ERG120 (orange handle) covers tie widths 4.8mm to 7.6mm, tensile rating up to 540N

WT1 or WT2

- Manufactured in rugged and lightweight high impact plastic
- WT1 covers tie widths 2.4mm to 4.7mm
- WT2 covers tie widths 4.7mm to 7.6mm

473906

Tie Width	Mfrs. List No.		Price Each		
	Order Code		1+	5+	10+
2.4mm to 4.8mm	ERG50	134-2672			
4.8mm to 7.6mm	ERG120	134-2673			
2.4mm to 4.8mm	WT1	121-2511			
4.7mm to 7.6mm	WT2	121-2512			

Cable Tie Installation Tools



- Manufactured in rugged and lightweight high impact plastic
- WT1 covers tie widths 2.4mm to 4.7mm
- WT2 covers tie widths 4.7mm to 7.6mm

WT1 or WT2

224082

Tie Width	Mfrs. List No.		Price Each		
	Order Code		1+	5+	10+
2.4mm to 4.7mm	WT1	121-2511			
4.7mm to 7.6mm	WT2	121-2512			

P-Clips

Fixed Diameter Cable Clamps



Durable nylon cable clamps available in a selection of sizes. Available in natural nylon or black, weather resistant nylon.

Width (mm)	Bundle Offset (mm)	Max. Bundle Dia. (mm)	Mounting	Natural Order Code	Black Order Code
9.4	8.4	3.1	M4 Screw	101-5007	101-5265
9.4	10.9	4.8	M4 Screw	101-5008	101-5267
9.4	10.4	6.3	M4 Screw	101-5009	101-5268
9.4	10.4	6.3	M5 Screw	101-5010	101-5269
9.4	12.4	7.9	M4 Screw	101-5012	101-5270
9.4	15	9.5	M4 Screw	101-5013	101-5271
9.4	14.5	11.1	M4 Screw	101-5014	101-5272
9.4	15.2	12.7	M4 Screw	101-5015	101-5273
12.7	9.1	3.1	M5 Screw	101-5016	101-5274
12.7	10.7	4.8	M5 Screw	101-5017	101-5275
12.7	11.7	6.3	M5 Screw	101-5018	101-5276
12.7	12.7	7.9	M5 Screw	101-5019	101-5277
12.7	13.5	9.5	M5 Screw	101-5020	101-5279
12.7	14.2	11.1	M5 Screw	101-5021	101-5281
12.7	15	12.7	M5 Screw	101-5022	101-5282
12.7	15.5	14.2	M5 Screw	101-5024	101-5283
12.7	16.5	15.7	M5 Screw	101-5025	101-5284
12.7	19.1	17.5	M5 Screw	101-5026	101-5285
12.7	19.8	19.1	M5 Screw	101-5027	101-5286
12.7	20.6	20.6	M5 Screw	101-5028	101-5287
12.7	21.3	22.1	M5 Screw	101-5029	101-5288
12.7	23.1	25.4	M5 Screw	101-5030	101-5289

419482/436546

100 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	3+
Natural / Nylon				
CCS12-S8-C	101-5007			
CCS19-S8-C	101-5008			
CCS25-S8-C	101-5009			
CCS25-S10-C	101-5010			
CCS31-S8-C	101-5012			
CCS38-S8-C	101-5013			
CCS44-S8-C	101-5014			

100 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	3+
Natural / Nylon				
CCS50-S8-C	101-5015			
CCH12-S10-C	101-5016			
CCH19-S10-C	101-5017			
CCH25-S10-C	101-5018			
CCH31-S10-C	101-5019			
CCH38-S10-C	101-5020			
CCH44-S10-C	101-5021			
CCH50-S10-C	101-5022			
CCH56-S10-C	101-5024			
CCH62-S10-C	101-5025			
CCH69-S10-C	101-5026			
CCH75-S10-C	101-5027			
CCH81-S10-C	101-5028			
CCH87-S10-C	101-5029			
CCH100-S10-C	101-5030			
Black / Weather Resistant Nylon				
CCS12-S8-CO	101-5265			
CCS19-S8-CO	101-5267			
CCS25-S8-CO	101-5268			
CCS25-S10-CO	101-5269			
CCS31-S8-CO	101-5270			
CCS38-S8-CO	101-5271			
CCS44-S8-CO	101-5272			
CCS50-S8-CO	101-5273			
CCH12-S10-CO	101-5274			
CCH19-S10-CO	101-5275			
CCH25-S10-CO	101-5276			
CCH31-S10-CO	101-5277			
CCH38-S10-CO	101-5279			
CCH44-S10-CO	101-5281			
CCH50-S10-CO	101-5282			
CCH56-S10-CO	101-5283			
CCH62-S10-CO	101-5284			
CCH69-S10-CO	101-5285			
CCH75-S10-CO	101-5286			
CCH81-S10-CO	101-5287			
CCH87-S10-CO	101-5288			
CCH100-S10-CO	101-5289			

Polyamide P-Clips



- Operating temperature: -40°C to 85°C
- Flammability: UL94 V2
- Manufactured in Natural Polyamide 6.6
- Supplied in packs of 10

Manufactured from Polyamide these P-Clips offer good temperature resistance as well as high strength. Use for permanent or semi-permanent cable fixings, this range of P-Clips can be used in a variety of industries. Their light weight makes them particularly suitable for use in the aerospace industry where minimising weight, but retaining a strong fixing is vitally important.

Mfrs. List No.	Width (mm)	Wall Thickness (mm)	Fixing Hole Dia. (mm)	Bundle Dia. (mm)	Fixing Hole Centres (mm)
H1P-N66-NA-M1	10	0.8	4.2	3.2	8.5
H2P-N66-NA-M1	10	1	4.2	5	9.5
H3P-N66-NA-M1	10	1	4.2	6.5	10
H4P-N66-NA-M1	10	1.2	4.2	8	10
H5P-N66-NA-M1	10	1.2	4.2	9.5	11
H6P-N66-NA-M1	10	1.2	4.2	11	13
H8P-N66-NA-M1	10	1.5	4.2	14	15
H12P-N66-NA-M1	10	1.5	4.2	20.5	19

610492

10 Per Pack		Price Per Pack		
Mfrs. List No.	Order Code	1+	5+	10+
H1P-N66-NA-M1	182-7037			
H2P-N66-NA-M1	182-7038			
H3P-N66-NA-M1	182-7039			
H4P-N66-NA-M1	182-7040			
H5P-N66-NA-M1	182-7041			
H6P-N66-NA-M1	182-7043			
H8P-N66-NA-M1	182-7044			
H12P-N66-NA-M1	182-7045			

P-Clips, Nylon



- P-clips manufactured in flame retardant Natural Nylon 66
- Suitable for fixing cables, looms etc up to 25.4mm diameter.

P-Clips - continued

P-Clips, Nylon - continued

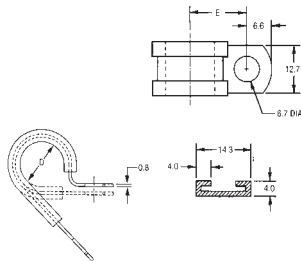
Operating Temperature -40°C to +85°C Fixing Hole Diameter 4.6mm 208056

100 Per Pack

Nominal	Price Per Pack					
Bundle Dia. (mm)	Clip Width (mm)	Order Code	1+	5+	10+	50+
3.2	9.6	141-6072				
4.8	9.6	141-6073				
6.35	10	141-6074				
7.9	10	141-6075				
9.5	12	141-6076				
12.7	12	141-6077				
15.8	12	141-6079				
19.4	12	141-6081				
25.4	12	121-8018				

P-Clamp, Steel

Zinc Plated with Santoprene Cushion



- Secure clamping of cables
- Santoprene cushion prevents chating

25 Per Pack

D (mm)	E (mm)	Order Code	1+	+	+	+	+
4.8	12.7	120-2527					
6.4	13.5	120-2528					
9.5	15	120-2529					
12.7	16.5	120-2530					
19.1	21.3	120-2531					
25.4	24.4	120-2532					

P-Clips with Rubber Insert



Offering a simple, yet secure fixing, this range of clips can be used as a simple pipe or cable fixings, or to secure parts subject to vibration (for example to retain capacitors on a PCB). Ideal for use in high temperatures or for applications that require the strength of a metal component.

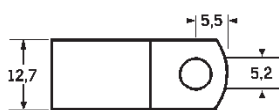
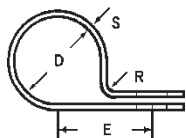
- Operating temperature: -20°C to 80°C
- Manufactured in Aluminium and Chloroprene
- Supplied in packs of 10

Mfrs. List No.	Width (mm)	Wall Thickness (mm)	Fixing Hole Dia. (mm)	Bundle Dia. Max. (mm)	Fixing Hole Centres (mm)
ALU4C-ALUCR-NABK-C1	16.3	3.7	5.2	3.2	5.5
ALU5C-ALUCR-NABK-C1	16.3	3.7	5.2	4.8	5.5
ALU6C-ALUCR-NABK-C1	16.3	3.7	5.2	6.4	5.5
ALU7C-ALUCR-NABK-C1	16.3	3.7	5.2	8	5.5
ALU8C-ALUCR-NABK-C1	16.3	3.7	5.2	9.5	5.5
ALU10C-ALUCR-NABK-C1	16.3	3.7	5.2	12.7	5.5
ALU11C-ALUCR-NABK-C1	16.3	4.5	5.2	14.3	5.5
ALU12C-ALUCR-NABK-C1	16.3	4.5	5.2	15.9	5.5
ALU13C-ALUCR-NABK-C1	16.3	4.5	5.2	17.5	5.5
ALU15C-ALUCR-NABK-C1	16.3	4.5	5.2	20.6	5.5

10 Per Pack

Mfrs. List No.	Order Code	1+	5+	10+
ALU4C-ALUCR-NABK-C1	182-7067			
ALU5C-ALUCR-NABK-C1	182-7068			
ALU6C-ALUCR-NABK-C1	182-7069			
ALU7C-ALUCR-NABK-C1	182-7070			
ALU8C-ALUCR-NABK-C1	182-7071			
ALU10C-ALUCR-NABK-C1	182-7072			
ALU11C-ALUCR-NABK-C1	182-7073			
ALU12C-ALUCR-NABK-C1	182-7074			
ALU13C-ALUCR-NABK-C1	182-7075			
ALU15C-ALUCR-NABK-C1	182-7076			

Aluminium P-Clip



Offering a simple yet secure fixing, this range of clips can be used as a simple pipe or cable fixing (for example within caravan construction) or with the addition of the Chlorprene insert can be used to secure parts subject to vibration (for example to retain capacitors on a PCB).

Material Colour Aluminium Metal Temperature Range -40°C to +180°C

Dimensions in mm

Type	D	E	R	S	Type	D	E	R	S
44	6.4	11.6	1.6	0.8	66	9.5	13.4	1.6	0.8
55	8.0	12.6	1.6	0.8	77	11.1	14.2	1.6	0.8

Price Per Pack (100)

Type	Order Code	1+	5+
4	852-272		
5	852-284		
6	852-296		
7	852-302		

Aluminium P-Clips



- Operating temperature: -40°C to 180°C
- Manufactured in Aluminium
- Supplied in packs of 100

Offering a simple, yet secure fixing, this range of clips can be used as pipe or cable fixing. Ideal for use in high temperatures or for applications that require the strength of a metal component.

Mfrs. List No.	Width (mm)	Wall Thickness (mm)	Fixing Hole Dia. (mm)	Bundle Dia. Max. (mm)	Fixing Hole Centres (mm)
ALU8-ALU-NA-C1	12.7	0.8	5.2	12.7	15
ALU11-ALU-NA-C1	12.7	1.3	5.2	17.5	19.1
ALU12-ALU-NA-C1	12.7	1.3	5.2	19.1	19.9

100 Per Pack

Mfrs. List No.	Order Code	1+	5+	10+
ALU8-ALU-NA-C1	182-7063			
ALU11-ALU-NA-C1	182-7064			
ALU12-ALU-NA-C1	182-7065			

P-Clips, Aluminium



- Secure clamping of cables
- P-clips manufactured in Aluminium Alloy
- Suitable for fixing cables, looms etc up to 15.9mm diameter

100 Per Pack

Bundle Dia. (mm)	Clip Width (mm)	Order Code	1+	5+	10+	25+	50+
3.2	9.5	145-4785					
4.8	9.5	145-4786					
6.4	9.5	145-4787					
7.9	9.5	145-4788					
9.5	9.5	145-4789					
11.1	9.5	145-4790					
12.7	9.5	145-4792					
14.3	9.5	145-4793					
15.9	9.5	145-4794					

D-Clip



D-Clips can be used in a variety of applications where quick and easy installation of cables or pipes are required. The clips are flexible to allow quick and easy installation as well as removal of cables and pipes

Material Colour Polyacetal (POM) Black Operating Temperature -40°C to +85°C Flammability UL94 HB

Mfrs. List No.	Length From Fixing Hole To Centre (mm)	Width (mm)	Fixing Hole (mm)	Bundle Max. (mm)
4D10	17	15	4	10
4D15	25	15	4	15
4D20	28	15	4	20

100 Per Pack

Mfrs. List No.	Order Code	1+	5+	10+
4D10	177-4291			
4D15	177-4292			
4D20	177-4294			

Wire Harness Clamps



- Cable or wire can be installed or removed without removing clamp
- Strong secure fixing
- Screw or rivet fixing
- Manufactured from nylon UL94 V0
- UL recognised
- Supplied in packs of 40

Mftrs. List No.	Max. Cable Diameter (mm)	Width (mm)	Length (mm)	Thickness (mm)
WHC-125-01	3.2	8.4	19.1	1.3
WHC-250-01	6.4	10.2	21.1	1.0
WHC-375-01	9.5	10.2	21.1	1.3
WHC-500-01	12.7	10.2	29.4	1.8
WHC-625-01	15.9	12.7	28.6	2.0
WHC-750-01	19.1	12.7	32.5	2.2
WHC-1000-01	25.4	12.7	38.9	2.2
WHC-1500-01	38.1	12.7	53.9	2.5

548212

Mftrs. List No.	Order Code	1+	5+	10+	50+
WHC-125-01	176-5035				
WHC-250-01	176-5037				
WHC-375-01	176-5038				
WHC-500-01	176-5039				

Cable Clips & Cord

Patch Cord Identification Bands



- Removable band snaps on and off individual cables allowing the same patch cord to be used for different applications
- Can be installed next to each other allowing multiple color bands to be used on one cable, offering endless color coding options
- Internal grooves secure color bands in place on cable providing easy identification at the connection
- Available in 10 standard colors that match providing an

aesthetically pleasing solution

- For use with cable diameters 4.78mm to 7.87mm
- Manufactured in Polypropylene

549937

Mftrs. List No.	Colour	Order Code	1+	5+	10+
PCBANDBL-Q	Black	177-3717			
PCBANDBU-Q	Blue	177-3718			
PCBANDRD-Q	Red	177-3721			
PCBANDYL-Q	Yellow	177-3722			
PCBANDGR-Q	Green	177-3723			
PCBANDOR-Q	Orange	177-3724			
PCBANDVL-Q	Violet	177-3725			
PCBANDWH-Q	White	177-3726			
PCBANDEI-Q	Ivory	177-3727			
PCBANDIG-Q	Grey	177-3728			

Circular Cable Clips



- A range of robust plastic cable clips assembled with hardened steel zinc plated masonry pins
- Available in white, grey and black

624042

Cable Dia.	Order Code	1+	5+	10+	25+	50+
White						
2.75mm	150-824					
4mm	150-331					
5mm	150-332					
6mm	150-825					
7mm	150-333					
8mm	150-826					
9mm	150-334					
10mm	150-827					
11mm	150-335					
Grey						
5mm	151-660					
Black						
6mm	151-664					
7mm	151-665					

TV Cable Clips



- Black UV stabilised polypropylene cable clips with especially hardened masonry pins
- Round design enables clip to be attached to cables before fixing.

219620

Cable Dia.	Order Code	1+	5+	10+	25+	50+
5 - 6	611-931					
6 - 7	611-943					
7 - 8	611-955					

Cable Cleats



Cable Size Min. (mm)	Range Max. (mm)	
NP4	7.6	10.2
NP5	10.5	12.5
NP6	12.7	16
NP7	14.3	17.6
NP8	15.5	21.5
NP9	17.6	22.4
NP10	19.7	25.8

208321

Order Code	1+	5+	10+	25+	50+
NP4	725-7338				
NP5	725-7340				
NP6	725-7351				
NP7	725-7363				
NP8	725-7375				
NP9	725-7387				
NP10	725-7399				

Cradle Clips



Cradle clips are suitable for pre-assembly, prototyping or applications requiring the addition or removal of cables. The clamp consists of two parts which are purchased separately. The C-clip base for mounting onto a panel and the elasticated R-loop which holds the cables in place, eg. R1 is used with C1, R2 is used with C2, etc.

Mftrs. List No.	Length (mm)	Width (mm)	Fixing Hole (mm)	Radius (mm)	Material
Material Polyamide 6.6 (PA66)/Flexible Polyvinyl Chloride (PVC)					
Colour Black					
Operating Temperature -35°C to +85°C					
Flammability UL94 V2					
Base					
C1	25	12.7	4.8	6.3	PA66
C2	35	12.7	4.8	11	PA66
C3	48	12.7	4.8	17.5	PA66
Strap					
R1	16	23.8	-	-	PVC
R2	22	23.8	-	-	PVC
R3	33	23.8	-	-	PVC

550588

Mftrs. List No.	Order Code	1+	5+	10+
100 Per Pack				
Base				
C1	177-4279			
C2	177-4280			
C3	177-4282			
Strap				
R1	177-4283			
R2	177-4284			
R3	177-4285			

Self-Adhesive Releasable Nylon



- Snap action, self-adhesive releasable cable clips
- Manufactured in flame retardant Black Nylon 66 to **UL94V-2**
- Accepts M4 fixing screw if required
- Suitable for fixing cables, looms etc. up to 18mm diameter

Operating Temperature -40°C +85°C

Self-Adhesive Releasable Nylon - continued

208055

100 Per Pack

Cable Dia. (mm)	Base L (mm)	Dimensions W (mm)	Order Code	Price Per Pack			
				1+	5+	10+	50+
5.5	25.8	13.4	126-9018				
7.5	28.8	13.4	126-9019				
12	34.8	16.5	126-9020				
14	36.5	16.4	126-9022				
15	38.2	16	126-9024				
17	41.3	15.6	126-9025				

Cord Clips

Hot-Dipped Galvanized Steel with High Bond Adhesive



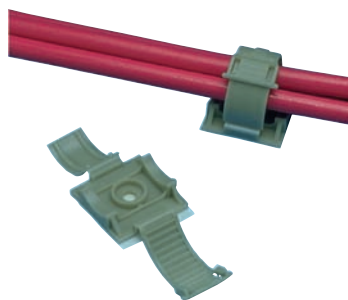
High bond adhesive backed cord clips use multi-purpose acrylic adhesive on both sides of conformable foam. The adhesive provides excellent adhesion to a broad range of high and medium surface energy substrates including metals, glass, and a wide variety of plastics.

Mftrs. List No.	Max. Bundle Dia. (mm)	Dimensions (mm) L	W	Clip Width (mm)	Pack Qty
MACC25-AV-D	6.4	19.6	13.7	7.4	500
MACC62-AV-C	15.7	30	19.7	7.4	100

610334

Mftrs. List No.	Pack Qty	Order Code	1+	5+	10+
MACC25-AV-D	500	182-6693			
MACC62-AV-C	100	182-6695			

Adjustable And Releasable Clamps



- Fast and convenient method of securing bundles from 4.8mm up to 17.5mm diameter
- Available with adhesive backing or screw applied with one M3 screw

Colour	Length (mm)	Width (mm)	Bundle Dia. Range (mm)	Max. Static Load (g)	Mounting Method	Order Code
Natural	25.4	25.4	4.8-17.5	227	Rubber	101-4887
Grey	25.4	25.4	4.8-17.5	227	Adhesive	101-4888
Natural	25.4	25.4	4.8-17.5		M3 Screw	101-4889
Grey	25.4	25.4	4.8-17.5		M3 Screw	101-4890

419595/436509

Mftrs. List No.	Order Code	1+	3+
ARC.68-A-Q	101-4887		
ARC.68-A-Q14	101-4888		
ARC.68-S6-Q	101-4889		
ARC.68-S6-Q14	101-4890		

Push In Cable Clips



- Operating temperature: -40°C to 85°C
- Flammability: UL94 V2
- Manufactured in Natural Polyamide 6.6
- Supplied in packs of 100

The shape of the clips ensures that they can accept either single or multiple cables, whilst the design of the cable entry allows cables to be simply pushed into place. The self-locking feature ensures that once inside the clip the wires cannot be removed accidentally. The arrowhead fixing design ensures simple and secure installation and only needs access to the panel from one side.

Mftrs. List No.	Dimensions (mm)			Fixing Hole Dia. (mm)	Panel Thickness (mm)	
	L	W	H		Min.	Max.
WPC5-N66-NA-C1	15	5.25	12.7	4.7	0.8	4
WPC10-N66-NA-D1	15	5.25	17.7	4.7	0.8	4
WPC15-N66-NA-D1	15	5.25	22.7	4.7	0.8	4
WPC20-N66-NA-D1	15	5.25	27.7	4.7	0.8	4

610503

Mftrs. List No.	Order Code	1+	5+	10+
WPC5-N66-NA-C1	182-7059			
WPC10-N66-NA-D1	182-7060			
WPC15-N66-NA-D1	182-7061			
WPC20-N66-NA-D1	182-7062			

Self-Adhesive Nylon



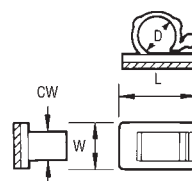
- Designed for applications whose fixing holes would be impractical or unsightly
- Moulded in natural nylon to UL94V-2

Cable dia. = 4.8mm
Base dimensions = 15.5 x 16mm

208168

Order Code	1+	5+	10+	50+
121-8027				

Self-Adhesive Nylon



HellermannTyton

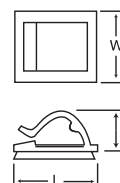
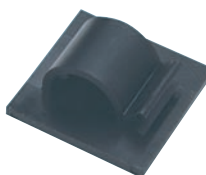
- Designed for applications where fixing holes would be impractical or unsightly
- The range covers cable diameters from 3 to 18mm and the snap action clip speeds assembly time
- Moulded in Natural Nylon 66.

Cable Dia. (mm) D	Base (mm) W	Dimensions (mm) L	Clip Width (mm) CW	Mftrs. List No.	Order Code
3	12	13	5.0	RA3(50 PACK)	116-8957
6	19	19	5.0	RA6(50 PACK)	116-8958
9	19	19	7.5	RA9(50 PACK)	116-8959
13	25	25	10.0	RA13(50 PACK)	116-8960
18	25	30	10.0	RA18(50 PACK)	116-8961

224086

Order Code	1+	5+	10+	50+	+
116-8957					
116-8958					
116-8959					
116-8960					
116-8961					

Self-Adhesive Nylon



HellermannTyton

- Designed for applications whose fixing holes would be impractical or unsightly
- Cover cable diameters 5 to 14mm
- Moulded in Natural or Black Nylon 66

Cable Dia. (mm)	Base (mm)		Natural Mftrs.	Order Code	Black Mftrs.	
	W	L			Order Code	Order Code
5	19	19	RB5-NAT(50 PACK)	116-9049	RB5-BLK(50 PACK)	116-9053
8	25	25	RB8-NAT(50 PACK)	116-9050	RB8-BLK(50 PACK)	116-9054
14	28	33	RB14-NAT(50PACK)	116-9052	RB14-BLK(50PACK)	116-9055

208090

Cable Dia	Order Code	Price Per Pack			
		1+	5+	10+	50+
Natural	5	116-9049			
	8	116-9050			
	14	116-9052			
Black	5	116-9053			
	8	116-9054			
	14	116-9055			

Cable Entry and Clamp

HellermannTyton



Operating temperature -50°C to 85°C Current rating (terminals) 16A

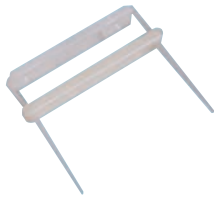
A dual purpose component, moulded in Black Nylon 6, conforming to BS3456, which both 'bushes' the cable at the point of entry into the appliance, and at the same time secures the cable without damage by means of a No. 6 self-tapping screw (not supplied, see Section 14), through the front panel.

Cable Dia. (mm)	Entry Dia. (mm)	Fixing Centres (mm)	Fixing Screw (mm)	Order Code
6 to 9	12.7	12.7	No.6 (3.5dia)	116-8933
8 to 11	15.9	15.9	No.6 (3.5dia)	116-8934

624046

Order Code	10+	50+	100+
116-8933			
116-8934			

Flat Cable Clamps



- A two-piece nylon cable clamp for bundling flat cable, which may be released and reused. Available in two versions, screw mounting or adhesive mounting

Note: Full strength on adhesive mounting types achieved after 24 hours.

No. of Ribbon Conductors	Cable Width (mm)	Capacity Height (mm)	Order Codes	
			Screw Mounting	Adhesive Mounting
20	25.4	12.7	121-2499	121-2501
40	50.8	25.4	162-3293	121-2502
60	76.2	25.4	121-2500	121-2504

224089

Order Multiple=5

No. of Ribbon Conductors	Mfrs. List No.	Order Code	5+	50+	100+
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Screw Mounting

20	FCC-1	121-2499			
40	FCC-2	162-3293			
60	FCC-3	121-2500			

Adhesive Mounting

20	FCC-1A	121-2501			
40	FCC-2A	121-2502			
60	FCC-3A	121-2504			

Ribbon Cable Clamps - Self-Adhesive



- A range of moulded nylon clamps for ribbon cable up to 64 way
- Unique method of clamping allows several layers of cable to be clamped
- 6BA countersunk screw fixing

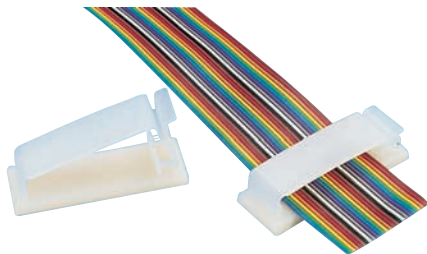
No. of Ribbon Conductors	Length (mm)	Maximum Cable Width (mm)	Height (mm)	Fixing Centres (mm)	Order Code
26	51	33	9	42	145-426
40	76	67	9	67	145-427
64	107	85	9	98	145-428

224088

Order Multiple=5

No. of Ribbon Conductors	Order Code	5+	25+	100+	250+	500+
26	145-426					
40	145-427					
64	145-428					

Ribbon Cable Clamps - Self-Adhesive



- One-piece releasable ribbon cable clamps in Natural Nylon 66

- Self-adhesive foam pad
- Flame retardant to UL94V-2

No. of Ribbon Conductors	Max. Cable Width (mm)	Overall Length (mm)	Overall Width (mm)	Overall Height (mm)	Order Code
25	32	45.8	19.4	18	126-8996
30	39.5	53.3	19.4	18	126-8997
50	63.5	76.2	19.4	18	126-8998

208290

Order Multiple=10

Conductors	Width	Order Code	10+	50+	100+	500+	1K+
25	32	126-8996					
30	39.5	126-8997					
50	63.5	126-8998					

Cord Clips

Heat Stabilized Weather Resistant Nylon 6.6 with High Bond Adhesive



High bond adhesive backed cord clips shall utilize multi-purpose acrylic adhesive on both sides of conformable foam. The adhesive shall provide excellent adhesion to a broad range of high and medium surface energy substrates including metals, glass, and a wide variety of plastics.

Mfrs. List No.	Max. Bundle Dia. (mm)	L	W	H	Pack Qty
ACC19-AV-M300	4.8	19	15.7	6.4	1000
ACC38-AV-M300	9.7	25.4	25.4	9.7	1000
ACC62-AV-D300	15.7	31.5	28.4	16	500

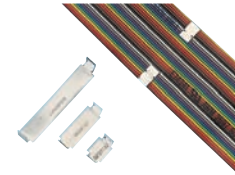
610337

Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
ACC19-AV-M300	1000	182-6696			
ACC38-AV-M300	1000	182-6697			
ACC62-AV-D300	500	182-6698			

Self-Adhesive Aluminium



Ribbon Cable



- Fast, easy installation
- Self-adhesive foam pad

Operating temperature -10°C to +90°C

208279

100 Per Pack

Ribbon Width (mm)	Order Code	1+	5+	10+	25+	40+
12.9	176-5020					
19.3	176-5021					
25.6	176-5022					
33	176-5023					
44	176-5025					
52	176-5026					
63.7	176-5027					

Ribbon Cable Clamps - Self-Adhesive



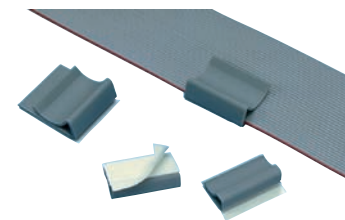
- Flat ribbon cable clamps in Grey PVC, self-adhesive backed

208093

100 Per Pack

Dimensions (mm)			Order Code	Price Per Pack				
W	D	H		1+	5+	10+	25+	50+
15	25	10	126-9034					
20	25	10	126-9035					
25	25	10	126-9036					
28	25	10	126-9037					

Adhesive Ribbon Cable Clips



- Used with any width flat cable for a maximum stack height of 4.3mm
- Rubber adhesive

Height (mm)	Length (mm)	Width (mm)	Max. Static Load (g)	Order Code
7.4	25.4	14.2	113	101-4944
9.7	25.4	27.7	227	101-4945

419613/436523

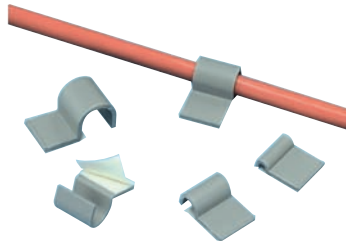
100 Per Pack

Mfrs. List No.	Order Code	1+	3+
FCC5-A-C8	101-4944		
FCC-A-C8	101-4945		

Cable Clips & Cord - continued



Adhesive Single Pad Clip



- Holds cords, cables and tubing
- Single rubber adhesive pad for confined areas

Height (mm)	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Max. Static Load (g)	Order Code
5.8	19.6	16	3	169	101-4891
9.7	23.1	16	6.4	169	101-4892

419597/436510

100 Per Pack		Price Per Pack	
Mfrs. List No.	Order Code	1+	3+
A1C12-A-C8	101-4891		
A1C25-A-C8	101-4892		

Self-Adhesive Steel



- Range of **BT Approved** self-adhesive cable clips manufactured from polyester coated mild steel
- Clips can be shaped if the fixing surface is not flat prior to removing the adhesive protective backing.

Operating temperature -40°C to 70°C, install at above 15°C

Mfrs. List No.	SAC1(100 PACK) = 116-9059	SAC3(100 PACK) = 116-9061
	SAC2(100 PACK) = 116-9060	SAC4(100 PACK) = 116-9062

208087

100 Per Pack		Price Per Pack					
Cable Dia.	Base W	Dimensions H	Order Code	1+	5+	10+	50+
4	20	30	116-9059				
8	25	35	116-9060				
12	31	43	116-9061				
16	38	51	116-9062				

Self-Adhesive Coated Aluminium



- White gloss coating
- Self-adhesive foam pad
- Available in two sizes

208281

100 Per Pack		Price Per Pack				
Base Size	Order Code	1+	5+	10+	25+	40+
16 x 16mm	302-7910					
25 x 25mm	176-5019					

Self-Adhesive Aluminium



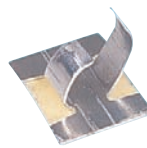
- Easily formed buckle
- Self-adhesive foam pad

Operating temperature -10°C to +90°C

208280

Nominal		Price Per Pack					
Bundle Dia. (mm)	Base	Order Code	1+	5+	10+	25+	40+
13	12 x 25.4mm	176-5017					
19	16.3 x 25.4mm	176-5018					

Self-Adhesive Aluminium



- Self-adhesive cable clips, manufactured in malleable aluminium
- To fix, remove adhesive backing and position. Insert cable harness and bend over tabs

Operating temperature

-10°C to +90°C

224087

250 Per Pack		Price Per Pack					
Max. Cable Dia.	Base Size	Order Code	1+	5+	10+	25+	40+
10mm	10.6 x 16mm	176-5015					
10mm	16 x 19mm	176-5016					

Push In Half "U" Routing Clips



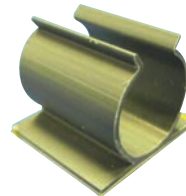
- Fixing Hole Diameter: 3.18mm
- Panel Thickness: 1.57mm
- Moulded in Natural 6/6



621342

40 Per Pack		Dimensions (mm)			Price Per Pack		
Cable Dia. (mm)	L	W	H	Order Code	1+	5+	10+
3.2	12.4	7.6	4.3	186-3789			
4.8	14.2	7.6	6.1	186-3790			
6.4	15.7	7.6	7.6	186-3791			

Self-Adhesive "U" Style Cable Clips



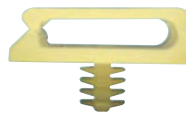
- Designed for applications where fixing holes would be impractical or unsightly
- Colour: Grey
- Material: PVC
- Covers cable diameters 3.2mm to 19.1mm



621343

40 Per Pack		Dimensions (mm)			Price Per Pack		
Cable Dia. (mm)	L	W	H	Order Code	1+	5+	10+
3.2	19.1	19.1	7.1	186-3792			
6.4	19.1	19.1	11.9	186-3793			
9.5	19.1	19.1	15.1	186-3795			
12.7	25.4	25.4	17.5	186-3796			
14.3	25.4	25.4	19.1	186-3797			
19.1	25.4	25.4	23	186-3798			

Self-Adhesive Saddle Cable Clips



- Designed for applications where fixing holes would be impractical or unsightly
- Side entry
- Colour: Natural
- Material: Nylon 6/6



621344

40 Per Pack		Dimensions (mm)			Price Per Pack		
Bundle Capacity (mm)	L	W	H	Order Code	1+	5+	10+
2.8 x 8.4	12.7	9.5	6.4	186-3799			
2.8 x 8.4	12.7	12.7	6.4	186-3801			

Push In Saddle Cable Clips



- Fixing Hole Diameter: 3.96mm
- Panel Thickness: 1 to 4.06mm
- Side entry
- Colour: Natural
- Material: Nylon 6/6



621345

40 Per Pack		Dimensions (mm)			Price Per Pack		
Bundle Capacity (mm)	L	W	H	Order Code	1+	5+	10+
2.8 x 8.3	12.7	9.5	5.1	186-3802			
2.8 x 12.5	17	9.5	5.1	186-3803			

Snap Rivet Mount Saddle Cable Clips



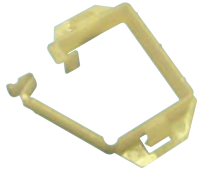
- Fixing Hole Diameter: 3.8mm
- Colour: Natural
- Material: Nylon 6/6



40 Per Pack Bundle Capacity (mm)	Dimensions (mm)			Order Code	Price Per Pack		
	L	W	H		1+	5+	10+
4.3 x 11.1	15.5	12.4	11.4	186-3804			
9.1 x 11.1	15.5	12.4	16.3	186-3805			
18.5 x 11.1	15.5	12.4	25.4	186-3806			
26.4 x 11.1	15.5	12.4	33.3	186-3807			

621346

Edge Mount Saddle Cable Clips



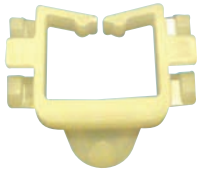
- Colour: Natural
- Material: Nylon 6/6



40 Per Pack Bundle Capacity (mm)	Dimensions (mm)			Order Code	Price Per Pack		
	L	W	H		1+	5+	10+
18 x 22	31	19	6.6	186-3808			
10.7 x 25	30.4	12.1	6.6	186-3809			

621349

Edge Mount Saddle Cable Clips



- Panel Thickness: 0.8 to 1.6mm
- Colour: Natural
- Material: Nylon 6/6



40 Per Pack Bundle Capacity (mm)	Dimensions (mm)			Order Code	Price Per Pack		
	L	W	H		1+	5+	10+
7.4 x 11.6	19.8	16.3	4.6	186-3810			
15 x 16.7	26.8	24.9	4.6	186-3811			
14.7 x 16.8	28.8	24.9	4.6	186-3813			
23.1 x 22.8	34.8	33.3	4.6	186-3814			

621350

Locking Wire Saddle



- Manufactured in Natural Nylon 6/6
- Flame Retardant UL94 V-0
- Fits 1.57mm panel thickness
- Snap Lock into hole
- Supplied in Packs of 40



List No.	Diameter	Dimensions	Height	Width
WSLT-3.5-2-1-01	3.5mm	3.4 x 13.5mm	8.9mm	19.6mm
WSLT-02-1-01	4.75mm	3.4 x 13.5mm	9.4mm	19.6mm
WSLT-01A-01	4.75mm	4.8 x 10.7mm	10.6mm	16.8mm
WSLT-01-2-01	4.75mm	8.8 x 10.7mm	14.6mm	16.8mm
WSLT-02A-01	4.75mm	10 x 16.3mm	15.8mm	22.4mm
WSLT-03-2-01	4.75mm	14.1 x 16.3mm	19.6mm	22.4mm
WSLT-03-3-01	4.75mm	21.7 x 18mm	27.3mm	24.1mm

548703

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
WSLT-3.5-2-1-01	176-5060				
WSLT-02-1-01	176-5056				
WSLT-01A-01	176-5055				
WSLT-01-2-01	176-5054				
WSLT-02A-01	176-5057				
WSLT-03-2-01	176-5058				
WSLT-03-3-01	176-5059				

Blind Hole Mount Wire Saddle



- Manufactured in Natural Nylon 6/6
- 7.9mm Dia. Fixing Hole
- 6.4mm Min. Panel Thickness
- Supplied in Packs of 40



Mfrs. List No.	Max. Cable Dimensions	Height	Mfrs. List No.	Max. Cable Dimensions	Height
WSBH-1-01	11.1 x 5.8mm	13mm	WSBH-3-01	11.1 x 20.1mm	27.2mm
WSBH-2-01	11.1 x 11.2mm	18.3mm	WSBH-4-01	11.1 x 28.2mm	35.6mm

548705

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
WSBH-1-01	176-5049				
WSBH-2-01	176-5051				
WSBH-3-01	176-5052				
WSBH-4-01	176-5053				

Snap In Wire Saddle



- Manufactured in Natural Nylon 6/6
- 4.75mm Dia. Fixing Hole
- 1.6mm Panel Thickness
- Supplied in Packs of 40



Mfrs. List No.	Max. Cable Dimensions	Height
WS-A-1-01	11.1 x 4.8mm	13.2mm
WS-A-2-01	11.1 x 9.7mm	18mm
WS-A-3-01	11.1 x 18.8mm	27.2mm
WS-A-4-01	11.1 x 26.7mm	35mm

548706

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	50+
WS-A-1-01	176-5044				
WS-A-2-01	176-5045				
WS-A-3-01	176-5046				
WS-A-4-01	176-5047				

Miniature Lacing Cord



- Miniature Black PVC covered Rayon lacing cord
- Supplied on 25m reel for easy handling
- Suitable for cable-forming and other applications
- Ideal for field service



Nominal outside diameter 0.9 or 1.2mm
Breaking strain 4.5kg

W=45,
Dia.=60mm

208310

Colour	Diameter	Order Code	Price Per Reel			
			1+	10+	25+	50+
Black	0.9mm	305-8669				
Black	1.2mm	143-5764				

Lacing Cord



- Flat braided Polyester Braid
- Suitable for cable-forming and other similar applications



Nominal outside diameter 2.16mm
Operating temperature -40°C to +85°C
Breaking strain 12kg

207971

Order Code	Price Per Reel			
	1+	5+	10+	25+
719-225				
122-3179				

O-Ring Skindicht®



- Used for reliable sealing against oil, dust and water at the connection thread of a gland or similar components
- Colour: Black



Cable Clips & Cord - continued

O-Ring - continued

Skindicht® - continued

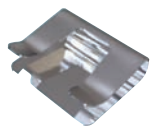
- Material: NBR
- UV resistant
- Temperature range: -30°C to 100°C

618250

Mftrs. List No.	Size	Inner Diameter	Order Code	Price Per Pack		
				1+	5+	10+
53102000	M12 x 2mm	9mm	185-2402			
53102001	M12 x 1.5mm	9mm	185-2403			
53102011	M13 x 1.5mm	9mm	185-2404			
53102010	M16 x 2mm	13mm	185-2405			
53102020	M20 x 2mm	17mm	185-2406			
53102021	M20 x 1.5mm	17mm	185-2407			
53102030	M25 x 2mm	22mm	185-2408			
53102040	M32 x 2mm	28mm	185-2409			
53102050	M40 x 2mm	36mm	185-2410			
53102060	M50 x 2mm	46mm	185-2411			

SMT Cable Clips

HARWIN



- Cable clip can be soldered at same time as rest of board, reducing additional operation time required for adhesive cable clips
- Material: Copper alloy
- Plating: Tin

NEW

Harwin's metal clips are physically much smaller than equivalent plastic wire management clips. They are placed directly onto solder pads eliminating the need to drill retaining holes in the PCB, offering space and cost savings. The metal clips are ultra low profile and unlike bulky plastic clips, do not protrude through the PCB increasing design flexibility. Unlike plastic clips require installation by hand which is time consuming and costly, these clips eliminate that process by being assembled at the same time as the rest of the SMT components.

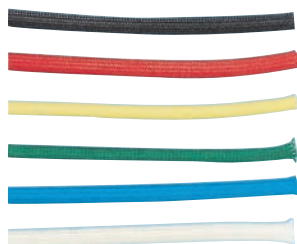
619965

Mftrs. List No.	Max. Cable Diameter (mm)	Order Code	Price Each			
			1+	10+	50+	100+
S8101-46R	1	185-9380				
S8111-46R	1 to 1.5	185-9381				
S8121-46R	1.5 to 2	185-9382				
S8131-46R	2 to 3	185-9383				

Braided Sleeving

HellermannTyton

Heat Resisting Braided Fibreglass Sleeving



- Polyurethane impregnated braided fibreglass sleeving
- Conforms to **NFC93-941, IEC684-1&2, DIN40620** and **EN60684-1**
- Operating temperature -30°C to +155°C, peaks at +200°C

Nom. bore Diameter (mm)	Tolerance (mm)	No. Wall Thickness (mm)
2	±0.20	0.25
4	±0.25	0.25
6	±0.30	0.25

25m Coil

Nom Bore Dia.	Colour	Order Code	Price Per Coil
2.0mm	Black	134-6809	
	Red	134-6810	
	Yellow	134-6811	
	Green	134-6812	
	Blue	134-6813	
4.0mm	Natural	134-6814	
	Black	134-6815	
	Red	134-6816	
	Yellow	134-6818	
	Green	134-6819	
6.0mm	Blue	134-7024	
	Natural	134-6820	
	Black	134-6821	
	Red	134-6822	
	Natural	134-6823	

'Helagaine' Braided Sleeving

HellermannTyton



Helagaine expansive braided tubing eases the production of cable harnesses by allowing the user to compress the tubing, to increase the diameter to a maximum, before drawing the cables through. Once the cables are in place, the braided tubing is pulled tight in order to obtain the minimum diameter required to fit around the cables. Either heat shrink tubing or a cable tie may then be used to complete the harness. This type of tubing also offers high mechanical protection and resistance to abrasion and bending.

Manufactured in Grey or Black Nylon 66 to **UL94V-2**, with limiting oxygen index (L.O.I.) **26** which complies with **CNET** requirements.

Operating temperature -15°C to +110°C (= 150°C for short periods)

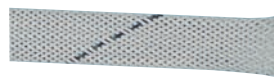
Nominal Dia.	Bundle Dia.		Coil Length	Grey Order Code	Black Order Code
	Min.	Max.			
3mm	2mm	4mm	25m	116-8905	116-8985
4mm	3mm	6mm	25m	116-8906	116-8986
8mm	5mm	10mm	25m	116-8907	116-8987
12mm	8mm	14mm	25m	116-8909	116-8989
14mm	10mm	16mm	10m	116-8910	116-8991
18mm	12mm	18mm	5m	116-8911	116-8992

224084

Nom. Dia.	Order Code	Price Each				
		1+	5+	10+	25+	50+
Grey						
3mm	116-8905					
4mm	116-8906					
8mm	116-8907					
12mm	116-8909					
14mm	116-8910					
18mm	116-8911					
Black						
3mm	116-8985					
4mm	116-8986					
8mm	116-8987					
12mm	116-8989					
14mm	116-8991					
18mm	116-8992					

'Terigaine' Braided Sleeving

HellermannTyton



Operating temperature -50°C to +150°C (+200°C for short periods.)

Nominal Dia. (mm)	2	5	9	11	13
Expanded Dia. (mm)	3	5	11	15	17
Coil Length	25m	25m	25m	10m	5m
Order Code	116-8993	116-8994	116-8995	116-8996	116-8998

207977

Nom. Dia.	Order Code	Price Each				
		1+	5+	10+	25+	50+
2	116-8993					
2	116-8994					
5	116-8995					
9	116-8996					
11	116-8998					
13	116-8999					

PET Expandable Braided Sleeving

SPC pro-POWER



This expandable braided sleeving is made of lightweight but tough polyester monofilaments, it offers an economical answer to installing, protecting, strengthening, enhancing and assembling over bundles, wires, cables and flexible piping. The push back effect of PET enables it to cover a wide

range of sizes with only few references and allows for easy application. With continuous working temperatures of -50°C up to +150°C and resistance to most chemicals, PET can be used in hostile conditions and is suitable for all industries. Moreover, it is self-extinguishing due to its braided construction.

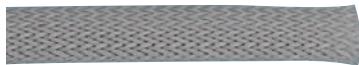
Type	Advised Range of Use (mm)	Expansion max (mm)	Black 10m Box	Order Code	Black 5m Bag	Grey 5m Bag
PET 3	1 to 5	7	129-7207	129-7221	129-7236	
PET 4	2 to 7	9	129-7208	-	129-7237	
PET 5	3 to 9	12	129-7209	129-7224	129-7238	
PET 6	4 to 11	14	129-7210	129-7225	-	
PET 8	5 to 12	17	129-7212	129-7226	129-7240	
PET 10	7 to 15	22	129-7213	129-7227	129-7241	
PET 12	8 to 17	24	129-7214	129-7228	129-7242	
PET 15	10 to 21	27	129-7215	129-7229	129-7243	

Type	Advised Range of Use (mm)	Expansion max (mm)	Black 10m Box	Order Code Black 5m Bag	Grey 5m Bag
PET 20	14 to 25	32	129-7216	129-7230	129-7244
PET 25	18 to 32	38	129-7217	129-7231	129-7245
PET 30	20 to 40	48	129-7218	129-7232	129-7246
PET 40	30 to 55	67	129-7219	129-7233	129-7248
PET 50	40 to 65	78	129-7220	129-7234	129-7249

449802

Mftrs. List No.	Order Code	Price Per Length		
		1+	5+	10+
Black - 10m Box				
PETBK3B10	129-7207			
PETBK4B10	129-7208			
PETBK5B10	129-7209			
PETBK6B10	129-7210			
PETBK8B10	129-7212			
PETBK10B10	129-7213			
PETBK12B10	129-7214			
PETBK15B10	129-7215			
PETBK20B10	129-7216			
PETBK25B10	129-7217			
PETBK30B10	129-7218			
PETBK40B10	129-7219			
PETBK50B10	129-7220			
Black - 5m Bag				
PETBK3BG5	129-7221			
PETBK5BG5	129-7224			
PETBK6BG5	129-7225			
PETBK8BG5	129-7226			
PETBK10BG5	129-7227			
PETBK12BG5	129-7228			
PETBK15BG5	129-7229			
PETBK20BG5	129-7230			
PETBK25BG5	129-7231			
PETBK30BG5	129-7232			
PETBK40BG5	129-7233			
PETBK50BG5	129-7234			
Grey - 5m Bag				
PETGY3BG5	129-7236			
PETGY4BG5	129-7237			
PETGY5BG5	129-7238			
PETGY8BG5	129-7240			
PETGY10BG5	129-7241			
PETGY12BG5	129-7242			
PETGY15BG5	129-7243			
PETGY20BG5	129-7244			
PETGY25BG5	129-7245			
PETGY30BG5	129-7246			
PETGY40BG5	129-7248			
PETGY50BG5	129-7249			

Polyester Expandable Braided Sleeving



- 0.22m monofilament
- High flexibility
- Self extinguishing
- Halogen free
- Passes flame resistance requirements to CEI 332-1 and FMVSS 302 (Type A) I2 according to NF F 16-101
- Available in Black and Grey

Nominal Dia. (mm)	Range of Use (mm)	Limiting oxygen index 34%	
		Coil Length	Reel Length
3	1 to 5	100m	-
4	2 to 7	100m	-
5	3 to 9	100m	50m
6	4 to 11	100m	50m
8	5 to 12	100m	50m
10mm	7 to 15	100m	50m
12mm	8 to 17	50m	25m
15mm	10 to 20	50m	25m
20	14 to 26	25m	25m
25mm	18 to 34	25m	15m
30mm	20 to 40	25m	10m

208330.343056

Coils	Nom. Dia. (mm)	Coil Length	Order Code	Price Per Coil				
				1+	5+	10+	25+	50+
Grey	3	100m	891-7876					
	4	100m	891-7884					
	5	100m	891-7892					
	6	100m	891-7906					
	8	100m	891-7914					
	10	100m	891-7922					
	12	50m	891-7930					
	15	50m	891-7949					
	20	25m	891-7957					
	25	25m	891-7965					

Coils	Nom. Dia. (mm)	Coil Length	Order Code	Price Per Coil				
				1+	5+	10+	25+	50+
	30	25m	891-7973					
Black	3	100m	891-7981					
	4	100m	891-7990					
	5	100m	891-8007					
	6	100m	891-8015					
	8	100m	891-8023					
	10	100m	891-8031					
	12	50m	891-8040					
	15	50m	891-8058					
	20	25m	891-8066					
	25	25m	891-8074					
	30	25m	891-8082					

Coils	Nom. Dia. (mm)	Coil Length	Order Code	Price Per Reel				
				1+	5+	10+	25+	50+
Grey	5	50m	322-3220					
	6	50m	322-3231					
	8	50m	322-3243					
	10	50m	322-3255					
	12	25m	322-3267					
	15	25m	322-3279					
	20	25m	322-3280					
	25	15m	322-3292					
	30	10m	322-3309					
Black	5	50m	322-3310					
	6	50m	322-3322					
	8	50m	322-3334					
	10	50m	322-3346					
	12	25m	322-3358					
	15	25m	322-3360					
	20	25m	322-3371					
	25	15m	322-3383					
	30	10m	322-3395					

Medium Expansion Polyester Braided Sleeving



- 0.22mm monofilament
- Medium expansion
- Imperial sizes
- High flexibility
- High abrasion and good chemical resistance

- Self-extinguishing
- Halogen free
- Passes flame resistant requirements of CEI 332-1 and FMVSS 302 (Type A) I2 according to NF F 16-101
- Supplied in Black on coils and reel

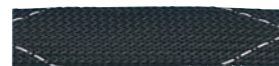
Norm. Dia.	Range of Use	Limiting oxygen index 34%	
		Coil Length	Reel Length
1/4" (6.4mm)	3/8" (9.5mm)	100m	400m
3/8" (9.5mm)	1/2" (12.7mm)	50m	300m
1/2" (12.7mm)	3/4" (19.1mm)	50m	300m
3/4" (19.1mm)	1" (25.4mm)	25m	200m
1" (25.4mm)	1 1/4" (31.8mm)	25m	200m

208329

Coils	Norm. Dia.	Coil Length	Order Code	Price Per Coil				
				1+	5+	10+	25+	50+
	1/4" (6.4mm)	100m	322-3504					
	3/8" (9.5mm)	50m	322-3516					
	1/2" (12.7mm)	50m	322-3528					
	3/4" (19.1mm)	25m	322-3530					
	1" (25.4mm)	25m	322-3541					

Reels	Reel Length	Price Per Reel						
		1+	5+	10+	25+	50+		
	1/4" (6.4mm)	400m	322-3553					
	3/8" (9.5mm)	300m	322-3565					
	1/2" (12.7mm)	300m	322-3577					
	3/4" (19.1mm)	200m	322-3589					
	1" (25.4mm)	200m	322-3590					

UL94-VO PBT Medium Expansion Sleeving



- 0.22mm monofilament
- Flame retardant to UL94V-0
- Medium expansion
- Imperial sizes
- High flexibility
- High abrasion and good chemical resistance

- Halogen free
- Passes flame resistance requirements of ISO 3796 and FMVSS 302
- Complies with CETDEC 26-0611
- Supplied in Black with an identification stripe
- Supplied in coils

Braided Sleeving - continued

UL94-V0 PBT Medium Expansion Sleeving - continued

Operating temperature	-50°C to +150°C	Limiting oxygen index	34.7%
Nominal Dia.	Range Of Use	Coil Length	Reel Length
¼" (6.4mm)	⅛" (3.2mm) to ⅜" (9.5mm)	100m	100m
⅜" (9.5mm)	⅜" (4.8mm) to ⅝" (15.8mm)	50m	300m
½" (12.7mm)	¼" (6.4mm) to ⅝" (19.1mm)	50m	300m
¾" (19.1mm)	½" (12.7mm) to 1¼" (32mm)	25m	200m

208328

Nom. Dia	Coil Length	Order Code	1+	5+	10+	25+	50+
¼" (6.4mm)	100m	322-3401	●				
⅜" (9.5mm)	50m	322-3413	●				
½" (12.7mm)	50m	322-3425	●				
¾" (19.1mm)	25m	322-3437	●				

High Expansion Polyester Braided Sleeving



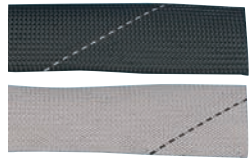
- 0.22mm monofilament
- High expansion
- Reduces inventory
- Easy installation over wire bundles
- Ideal for large termination or cable transitions
- Self extinguishing
- Passes flame resistant requirements of CEI 332-1 and FMVSS 302 (Type A) I2 according to NFF16-101

- Available in Black
- Supplied in coils

Operating temperature	-50°C to +150°C	Limiting oxygen index	33%					
Nom. Dia.	Range of Use	Coil Length	Order Code	1+	5+	10+	25+	50+
6	4 to 12	100m	322-3607	●				
12	7 to 21	100m	322-3619	●				
20	10 to 30	100m	322-3620	●				
30	20 to 60	50m	322-3632	●				

208325

UL94V-0 Polyester Expandable Braided Sleeving



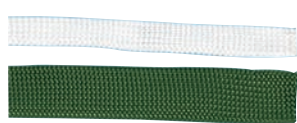
- 0.22mm monofilament
- Flame retardant to UL94V-0
- High flexibility
- High abrasion and good chemical resistance
- Self-extinguishing
- Passes flame resistance requirements of ISO 3795, FMVSS 302 and FAR 25-853 I2 according to NF F16-101 VO-UL94
- Available in Black and Grey with identification stripes

- Supplied in coils

Operating temperature	-50°C to +150°C	Limiting oxygen index	34.7%					
Nom. Dia.	Range of Use	Coil Length	Order Code	1+	5+	10+	25+	50+
Grey								
5	4 to 9	100m	891-8155	●				
6	5 to 11	100m	891-8163	●				
8	7 to 13	50m	891-8171	●				
10	9 to 15	50m	322-3670	●				
13	6.4 to 19	50m	891-8180	●				
15	13 to 20	50m	322-3693	●				
20	18 to 25	25m	891-8198	●				
25	22 to 30	50m	322-3711	●				
Black								
5	4 to 9	100m	891-8090	●				
6	5 to 11	100m	891-8104	●				
8	7 to 13	100m	322-3759	●				
10	9 to 15	50m	891-8112	●				
12	11 to 17	50m	322-3772	●				
13	6.4 to 19	50m	891-8120	●				
15	13 to 20	50m	322-3784	●				
20	18 to 25	25m	891-8139	●				
25	22 to 30	50m	322-3802	●				

208327

Nomex® Sleeving



- Nomex multifilament fibres
- High radiation resistance
- Resistant to most acids, alkalis, bleaching agents, organic chemicals and salt solutions
- Unaffected by Freon, gasoline, jet fuel, Ethylene Glycol and Methyl Alcohol

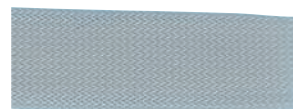
- Light weight
- Wide operating temperature
- Heat resistance up to 371°C
- High abrasion and flexibility
- Maintains its properties in hostile environments
- Available in Olive Drab and Ivory
- Supplied on reels

Operating temperature	-55°C to +245°C	Limiting oxygen index	29%
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Nom. Dia. (mm)	Range of Use (mm)	Reel Length	Order Code	1+	5+	10+	25+	50+
Olive Drab								
6	4 to 8	100m	322-4065	●				
8	6 to 12	50m	322-4077	●				
10	8 to 16	50m	322-4089	●				
15	10 to 20	50m	322-4090	●				
20	12 to 24	50m	322-4107	●				
Ivory								
6	4 to 8	100m	322-4132	●				
10	8 to 16	50m	322-4156	●				

208352

Polyamide 6.6 Sleeving



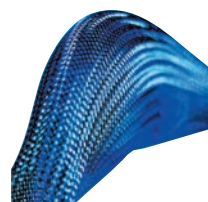
- 0.25mm monofilament
- Self extinguishing
- Wide temperature range
- High abrasion and good chemical resistance
- Halogen free
- Passes flame resistance requirements of CEI 332-1, FMVSS 302 and FAR25-853
- Available in Grey and Black
- Supplied in coils

Operating temperature	-60°C to +160°C
Limiting oxygen index	42.3%

Operating temperature	-60°C to +160°C	Limiting oxygen index	42.3%					
Nom. Dia. (mm)	Range of Use (mm)	Coil Length	Order Code	1+	5+	10+	25+	50+
Grey								
6	4 to 8	100m	322-3838	●				
8	5 to 10	100m	322-3840	●				
10	7 to 12	50m	322-3851	●				
12	8 to 14	50m	322-3863	●				
14	10 to 16	50m	322-3875	●				
16	12 to 18	50m	322-3887	●				
18	13 to 21	50m	322-3899	●				
20	15 to 23	50m	322-3905	●				
22	17 to 26	50m	322-3917	●				
Black								
5	3 to 7	100m	322-3942	●				
6	4 to 8	100m	322-3954	●				
8	5 to 10	100m	322-3966	●				
10	7 to 12	50m	322-3978	●				
12	8 to 14	50m	322-3980	●				
14	10 to 16	50m	322-3991	●				
16	12 to 18	50m	322-4004	●				
18	13 to 21	50m	322-4016	●				
20	15 to 23	50m	322-4028	●				
22	17 to 26	50m	322-4030	●				
25	18 to 28	50m	322-4041	●				
30	25 to 32	50m	322-4053	●				

208351

Helagaine Braided Sleeving



The Helagaine HLB mesh sleeve can widen by a factor of up to 1:3 by virtue of its mesh structure so that it can be pulled over lines and cables more quickly and easily. Diameters from 5 mm to 54 mm can be covered with just three types. The sleeves are supplied in practical 10m reels in dispenser boxes. The sleeve provides mechanical protection with flexibility at the same time. By virtue of its design, Helagaine HLB is self-quenching.

Material Colour	Polyester Black
Operating Temperature	-50°C to 150°C, Intermittent 200°C
Melting Point	250°C
Oxygen Index	34% (NF G 07-128)

Mfrs. List No.	Dia. (mm)	Min. Bundle Dia. (mm)	Max. Bundle Dia. (mm)	Reel Length (m)
HLB15-PET-BK-10M	15	5	21	10
HLB25-PET-BK	25	10	30	10
HLB35-PET-BK	35	18	54	10

610530

Mfrs. List No.	Order Code	1+	5+	10+
HLB15-PET-BK-10M	182-7099	●		
HLB25-PET-BK	182-7100	●		
HLB35-PET-BK	182-7101	●		

Hot Knife

HellermannTyton



The HSGO hot cutting tool is specially designed for cutting braided sleeveings that fray when cut with scissors or a blade. The individual strands melt and fuse together, preventing the sleeveing from fraying. The tool is supplied with a 'cutting' section that heats up when a current is passed through it. By pressing a trigger the tool and a small light is activated so that the cutting action can be easily viewed. This tool is CE marked.

Voltage	230V	Weight	0.95kg
Wattage	60W	EMC-Directive	89/336/EEC compliant
Colour	Blue	Low Voltage Directive	73/23/EEC compliant

550587

Mfrs.	Order Code	1+	5+	10+
HSGO	177-4278			

Fray Resistant Braid



- Innovative, fray resistant design
- Open weave design
- Increased braid density
- Packaged on a reel
- Manufactured from a Polyethylene Terephthalate material

Mfrs.	Nominal I.D. (mm)	Bundle Diameter Range (mm)	Length (m)
SE12PSC-TR0	3.2	3.2 to 6.4	61
SE25PSC-TR0	6.4	4.0 to 11.1	61
SE38PSC-TR0	9.5	4.8 to 15.9	61
SE50PSC-TR0	12.7	6.4 to 19.1	30.5
SE75PSC-CR0	19.1	15.9 to 25.4	30.5
SE125PSC-LR0	31.8	25.4 to 38.1	15.2
SE150PSC-LR0	38.1	31.8 to 50.8	15.2

485503

Mfrs. List No.	Order Code	1+	5+	10+
SE12PSC-TR0	147-1663			
SE25PSC-TR0	147-1664			
SE38PSC-TR0	147-1665			
SE50PSC-CR0	147-1666			
SE75PSC-CR0	147-1667			
SE125PSC-LR0	147-1668			
SE150PSC-LR0	147-1669			

Raybraid-101 – Shielding Braid



- Tinned copper shielding braid for harness systems
- Supplied on easily removed plastic tube former
- Minimum 93% optical coverage
- Super flexible with high expansion ratio

Note: Tube former must be removed from braid before use.

Mfrs. List No.	Bundle Diameter (mm) Min.	Max.	Former Diameter (mm)	Braid Size (mm)	AWG	Order Code
RAY-101-3.0	2.5	5.0	3 ± 0.13	0.1	38	121-8642
RAY-101-4.0	3.5	7.5	4 ± 0.25	0.13	36	121-8643
RAY-101-6.0	4.5	9.5	6 ± 0.25	0.13	36	121-8644
RAY-101-7.5	7	14	7.5 ± 0.25	0.13	36	121-8646
RAY-101-10.0	8	22	10 ± 0.25	0.13	36	121-8647
RAY-101-12.5	11	24	12.5 ± 0.25	0.13	36	121-8648
RAY-101-20.0	16	38	20 ± 0.38	0.13	36	121-8649

204176

Order Code	1+	10+	25+	50+	100+
121-8642					
121-8643					
121-8644					
121-8646					
121-8647					
121-8648					
121-8649					

Retrofit Braid



- Flexible
- Wrap around - Side entry
- Zero halogen
- High resistance to abrasion
- Fluid and chemical resistant
- Operating temperature: -50°C to 150°C
- Tensile Strength: 650 N/mm²
- Flammability: ASTM D 2671

Retrofit is a woven PET wrap around sleeve designed for protecting wire harnesses and cables. The spring wrap action enables application after termination of wires and cables. Installation is efficient as breakouts are quickly produced during harnesses building.

604819

Nom. Internal Diameter (mm)	Coil Length (m)	Order Code	Price Per Coil		
			1+	5+	10+
5	100	179-9677			
10	100	179-9679			
13	50	179-9681			
19	25	179-9682			
25	25	179-9683			
30	25	179-9684			
38	25	179-9685			
50	25	179-9686			

Helagaine Twist-In Sleeveing

HellermannTyton



Material Colour	Polyester Black
Operating Temperature	-70°C to 125°C
Melting Point	255°C
Flammability	FMVSS 302, Self extinguishing

Helagaine Twist-In is a self-closing sleeve manufactured from polyester monofilaments. The self-wrapping feature allows for easy, quick installation and removal of the sleeveing even on enclosed components and cables. Helagaine Twist-In gives quick and easy access to cables and wires for inspection, maintenance and assembly at any time. Helagaine Twist-In covers a wide range of applications and diameters with a small range of sizes.

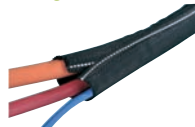
Mfrs. List No.	Bundle Diameter (mm) Min.	Max.	Reel Length (m)	Order Code
TWIST-IN 05 150M	4	5	150	182-1797
TWIST-IN 08 100M	5	8	100	182-1798
TWIST-IN 13 50M	10	13	50	182-1800
TWIST-IN 19 25M	16	19	25	182-1801
TWIST-IN 25 25M	19	25	25	182-1802
TWIST-IN 29 25M	25	29	25	182-1803
TWIST-IN 32 15M	29	32	15	182-1804
TWIST-IN 38 15M	32	38	15	182-1806

609363

Mfrs. List No.	Order Code	1+	5+	10+
TWIST-IN 05 150M	182-1797			
TWIST-IN 08 100M	182-1798			
TWIST-IN 13 50M	182-1800			
TWIST-IN 19 25M	182-1801			
TWIST-IN 25 25M	182-1802			
TWIST-IN 29 25M	182-1803			
TWIST-IN 32 15M	182-1804			
TWIST-IN 38 15M	182-1806			

Helagaine Twist-In-FR Sleeveing

HellermannTyton



Material Colour	Polyester Black with White Identification Yam
Operating Temperature	-50°C to 125°C
Melting Point	240°C
Flammability Specification	UL94 V0 and FMVSS-302, Self extinguishing NF F 16-101/16-102

Helagaine Twist-In-FR offers superior protection against abrasion and should be used whenever fire protection is important as it is self-extinguishing according to UL94 V0. The self-wrapping features enable an easy and quick installation without any manipulation of connectors and fittings. Helagaine Twist-In-FR can be easily removed for inspection, maintenance and assembly.

Mfrs. List No.	Bundle Diameter (mm) Min.	Max.	Reel Length (m)	Order Code
TWIST-IN-FR 05 150M	4	5	150	182-1807
TWIST-IN-FR 08 100M	5	8	100	182-1808
TWIST-IN-FR 13 50M	10	13	50	182-1809
TWIST-IN-FR 19 25M	16	19	25	182-1810
TWIST-IN-FR 25 25M	19	25	25	182-1811
TWIST-IN-FR 29 25M	25	29	25	182-1812
TWIST-IN-FR 32 15M	29	32	15	182-1813
TWIST-IN-FR 38 15M	32	38	15	182-1814

609364

Mfrs. List No.	Order Code	1+	5+	10+
TWIST-IN-FR 05 150M	182-1807			
TWIST-IN-FR 08 100M	182-1808			
TWIST-IN-FR 13 50M	182-1809			
TWIST-IN-FR 19 25M	182-1810			
TWIST-IN-FR 25 25M	182-1811			
TWIST-IN-FR 29 25M	182-1812			
TWIST-IN-FR 32 15M	182-1813			
TWIST-IN-FR 38 15M	182-1814			



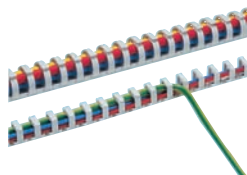
TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

Cable Support & Spiral Wrap



Heladuct



The HTC cable supports are a space-saving wiring system that holds the routed cable clearly open to view. Cables can be routed in or out over the whole length of the support. The supports can be rapidly mounted either with screws or an adhesive strip. The high-quality foam bonding layer smoothes over irregularities in the underlying surface and works particularly well on powder-coated surfaces. Due to their flexibility, it is possible to install the supports at 90° angles.

Material	Polypropylene (PP)	Operating Temperature	-20°C to +70°C continuous	
Colour	White	Flammability	UL94 V0 (excluding adhesive)	
Mftrs. List No.	Ø D (mm)	0.75mm ²	1.5mm ²	2.5mm ²
HTC10SK	9 x 11	9	6	4
HTC20SK	20	32	22	14
HTC30SK	30	67	50	34
HTC40SK	30	-	81	60

10 Per Pack		Price Per Pack		
Mftrs. List No.	Order Code	1+	5+	10+
HTC10SK	177-4273			
HTC20SK	177-4274			
HTC30SK	177-4275			
HTC40SK	177-4276			

Cable Support



The Heladuct Flex cable supports are a space-saving wiring system which holds the routed cable clearly open to view. Cables can be routed in or out over the whole length of the support. The supports can be rapidly mounted with an adhesive strip. The high-quality foam bonding layer smoothes over irregularities in the underlying surface and works particularly well on powder-coated surfaces. Due to their flexibility, it is possible to install the supports at angles of 90° and higher.

Applications: Heladuct flexible cable supports are commonly used in switching cabinets. They are also used in the furniture industry, where cables need to be routed rapidly and attractively.

Material	Polypropylene (PP)	Operating temperature	-20°C to 70°C	
Adhesive	Synthetic rubber with base of polyethylene foam	Flammability	UL94 V0	
Colour	White	Capacity in pieces (no. of wires)		
Mftrs. List No.	Inner Diameter (mm)	0.75mm ²	1.5mm ²	2.5mm ²
HELADUCT FLEX10 SK	9 x 11	9	6	4
HELADUCT FLEX20 SK	20	32	22	14
HELADUCT FLEX30 SK	30	67	50	34
HELADUCT FLEX40 SK	40	-	81	60

Mftrs. List No.		Price Each		
Order Code	1+	5+	10+	
HELADUCT FLEX10 SK	179-6934			
HELADUCT FLEX20 SK	179-6935			
HELADUCT FLEX30 SK	179-6936			
HELADUCT FLEX40 SK	179-6937			

Cable Wrap



- Material: PP (Polypropylene)
- Colour: Black
- Supplied in 5m lengths

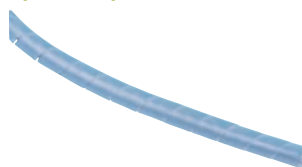
NEW

Harness wrap suitable for wires, cable and hoses. Slit design allows use even after cables have been terminated. Easy and fast to fit. Fully flexible design for a range of applications including: Robotics, Medical Instrumentation, Harness Prototyping and Domestic.

Max. Bundle Diameter (mm)	Mftrs. List No.	Order Code	1+	5+	10+
10	KL8BK	189-1380			
16	KL15BK	189-1381			
22	KL20BK	189-1382			
27	KL25BK	189-1383			
35	KL32BK	189-1384			

Installation Tool		Price Each		
Mftrs. List No.	Order Code	1+	5+	10+
10	KT8BK	189-1385		
16	KT15BK	189-1386		
22	KT20BK	189-1387		
27	KT25BK	189-1389		
35	KT32BK	189-1391		

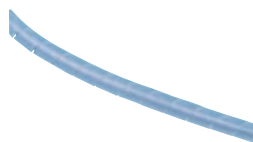
Spiral Wrap



- Available in Natural or Black
- Supplied in 10m lengths

10m Coil	Bore		Price Per Coil		
	Dia. (mm)	Order Code	1+	5+	10+
NaturalKS6N	3.2	141-6082			
KS10N	7.5	141-6083			
KS15N	12	141-6084			
KS19N	15	141-6085			
KS24N	20	141-6086			
BlackKSR6BK	3.2	141-6087			
KSR10BK	7.5	141-6088			
KSR15BK	12	141-6089			
KSR19BK	15	141-6090			
KSR24BK	20	141-6092			

Spiral Wrap



- For protection of bundles from 6 mm to 130 mm
- Install gapped for greater flexibility or butted for maximum abrasion resistance, insulation and rigidity
- Counter-clockwise cut
- Available in natural and UV-resistant black Polyethylene
- Supplied in 10m coils

Outer Dia. (mm)	Bundle Dia. (mm)		Order Code	Price Per Coil			
	Min.	Max.		1+	10+	25+	50+
Natural							
8	6	60	171-2189				
10	7.5	60	171-2190				
15	12	70	171-2191				
19	15	100	171-2192				
24	20	130	171-2193				
Black							
8	6	60	171-2194				
10	7.5	60	171-2195				
15	12	70	171-2197				
19	15	100	171-2198				
24	20	130	171-2199				

Coloured Spiral Wrap



- Allows breakouts of single/multiple wires and rerouting of replacement wires
- Harness multiple cables into a single manageable bundle
- Protection for wires, cables, hoses and tubing
- Colour code wire bundles
- Reusable
- Tool supplied in each package
- Polyethylene
- Supplied in 30.5m lengths

Mftrs. List No.	Bundle Diameter Range		Outside Diameter (mm)	Wall Thickness (mm)
	Min. (mm)	Max. (mm)		
T25F	4.8	50.8	6.4	1.02
T38F	7.9	76.2	9.5	1.4
T62F	12.7	114.3	15.9	1.57
T75F	15.9	127	19.1	1.65
T100F	22.2	152.4	25.4	1.78

Mftrs. List No.		Colour	Order Code	1+	3+
T25F-C		Natural	117-9915		
T25F-C		Natural	NEW 206-3590		
T25F-C0		Black	NEW 206-3592		
T25F-C2		Red	117-9919		
T25F-C3Y		Orange	117-9920		
T25F-C4Y		Yellow	117-9921		

Mftrs. List No.	Colour	Order Code	Price Per Reel	
			1+	3+
T25F-C5	Green	117-9922		
T25F-C6	Blue	117-9923		
T25F-C8	Grey	117-9926		
T25F-C10	White	117-9917		
T38F-C	Natural	NEW 206-3593		
T38F-C0	Black	NEW 206-3594		
T62F-C	Natural	NEW 206-3595		
T62F-C0	Black	NEW 206-3596		
T75F-C	Natural	NEW 206-3597		
T75F-C0	Black	NEW 206-3598		
T100F-C	Natural	NEW 206-3588		
T100F-C0	Black	NEW 206-3589		

Spiroband



Using only three sizes SPIROBAND will bind cable bunches in any diameter up to 100mm and give both mechanical and electrical protection. It is easily applied and the rigidity of the finished

bundle can be varied according to the closeness of the spiral.

Spiroband is manufactured in the following grades:

Grade 'U' - Natural polythene for indoor wiring.

Grade 'O' - Black polythene for outdoor wiring, UV resistant.

Grade 'R' - White polythene, flame retardant.

Operating temperature -50°C to +70°C

224085

Coil Length	External Dia.	Mftrs. List No.	Order Code	Price Per Coil			
				1+	5+	10+	25+
Grade 'U'							
50m	6mm	0205	302-983				
25m	12mm	0209	302-995				
Grade 'O'							
50m	6mm	0204	303-010				
25m	12mm	0208	303-021				
Grade 'R'							
50m	6mm	0206	303-045				
25m	12mm	0210	303-057				

Split Harness Wrap & Tool



NEW



- Significantly reduced installation time compared to spiral wrap
- Patented innovative slot pattern maintains uniform bundle protection in dynamic applications; provides improved flexibility and abrasion protection, and provides for easy wire or cable breakouts
- Large overlap accommodates a wide range of bundle diameters

- Diameter can be further reduced with the use of cable ties
- Patented installation tool with 180° opening allows easy loading of maximum bundle diameters to speed installation, providing the lowest installed cost
- Temperature range: -40°C to +50°C. Flame retardant version is -20°C to +75°C
- Flame retardant version are manufactured from a material that is rated UL 94V-0.
- Packaged on a reel for convenient handling and dispensing of product
- Tool made of white ABS material

Mftrs. List No.	Colour	Nominal Inner Dia. (mm)	Bundle Dia. (mm)		Reel Length (m)	Installation Tool
			Min.	Max.		
Natural Polyethylene						
PW38F-TL	Natural	9.5	6.4	10.9	76.2	PWT38
PW38F-TL20	Black	9.5	6.4	10.9	76.2	PWT38
PW50F-T	Natural	12.7	10.9	14	61	PWT50
PW50F-T20	Black	12.7	10.9	14	61	PWT50
PW75F-C	Natural	19.1	14	20.6	30.5	PWT75
PW75F-C20	Black	19.1	14	20.6	30.5	PWT75
PW100F-C	Natural	25.4	20.6	28.6	30.5	PWT100
PW100F-C20	Black	25.4	20.6	28.6	30.5	PWT100
PW150F-L	Natural	38.1	28.6	41.3	15.2	PWT150
PW150F-L20	Black	38.1	28.6	41.3	15.2	PWT150

Flame Retardant Natural Polyethylene (self extinguishing material)

PW38FR-TLY	Natural	9.5	6.4	10.9	76.2	PWT38
PW38FR-TL20Y	Black	9.5	6.4	10.9	76.2	PWT38
PW50FR-TY	Natural	12.7	10.9	14	61	PWT50
PW50FR-T20Y	Black	12.7	10.9	14	61	PWT50
PW75FR-CY	Natural	19.1	14	20.6	30.5	PWT75
PW75FR-C20Y	Black	19.1	14	20.6	30.5	PWT75
PW100FR-CY	Natural	25.4	20.6	28.6	30.5	PWT100
PW100FR-C20Y	Black	25.4	20.6	28.6	30.5	PWT100
PW150FR-LY	Natural	38.1	28.6	41.3	15.2	PWT150
PW150FR-L20Y	Black	38.1	28.6	41.3	15.2	PWT150

643317

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
PW38F-TL	206-3483			
PW38F-TL20	206-3484			
PW50F-T	206-3485			
PW50F-T20	206-3486			
PW75F-C	206-3488			
PW75F-C20	206-3489			
PW100F-C	206-3490			
PW100F-C20	206-3491			
PW150F-L	206-3492			
PW150F-L20	206-3493			
PW38FR-TLY	206-3494			
PW38FR-TL20Y	206-3495			
PW50FR-TY	206-3496			
PW50FR-T20Y	206-3497			
PW75FR-CY	206-3498			
PW75FR-C20Y	206-3500			
PW100FR-CY	206-3501			
PW100FR-C20Y	206-3502			
PW150FR-LY	206-3503			
PW150FR-L20Y	206-3504			
Installation Tool				
PWT38	206-3506			
PWT50	206-3507			
PWT75..	206-3508			
PWT100	206-3509			
PWT150	206-3510			

Spiral Binding



HellermannTyton

Spiral Binding is used for organising and protecting cables and hoses. Due to the spiral structure, spiral binding can be applied to cables or hoses in situ. Cable can branch out at any point and in any direction.

- Operating temperature: -60°C to 80°C, intermittent 120°C
- Flammability: UL94 V2, FMVSS 302 Type B
- Manufactured in Flame retardant Polyethylene

Mftrs. List No.	Internal Dia. (mm)	Pitch (mm)	Bundle Dia. (mm)	
			Min.	Max.
SBPEFR4-PE-BK-30M	4	1	5	20
SBPEFR9-PE-BK-30M	9	1.4	20	100

610498

			Price Per Reel		
Mftrs. List No.	Order Code	1+	5+	10+	
SBPEFR4-PE-BK-30M	182-7050				
SBPEFR9-PE-BK-30M	182-7051				

Cable Management



HellermannTyton

Helawrap is the ideal solution for bundling and protecting cables and wires in industrial as well as in home or office environments. Thanks to its special profile and handy applicator tool, Helawrap can be applied rapidly and effortlessly. The unique design allows the user to branch off cable at any point along the cover with ease. Helawrap can be removed and re-applied as often as required.

Helawrap is used to bundle and protect cable and wires in the electrical industry, panel building as well as machine, automotive and

truck manufacturing. Helawrap in 25 metre lengths is the time-saving solution for industrial applications. Due to its excellent flame-retardant properties.

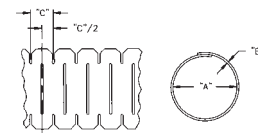
Mftrs. List No.	Bundle Dia. (mm)	Wall Thickness (mm)	Colour	Coil Length (m)	Application Tool	Clip Type
HWPP8 BLACK	9	0.75	Black	25	HAT8	HWCLIP08
HWPP8 GREY	9	0.75	Grey	25	HAT8	HWCLIP08
HWPP8 WHITE	9	0.75	White	25	HAT8	HWCLIP08
HWPP16 BLACK	16	0.8	Black	25	HAT16	HWCLIP16
HWPP16 GREY	16	0.8	Grey	25	HAT16	HWCLIP16
HWPP16 WHITE	16	0.8	White	25	HAT16	HWCLIP16
HWPP25 BLACK	27	1.05	Black	25	HAT25	HWCLIP25
HWPP25 GREY	27	1.05	Grey	25	HAT25	HWCLIP25
HWPP25 WHITE	27	1.05	White	25	HAT25	HWCLIP25

526398

			Price Per Coil			
Mftrs. List No.	Size	Order Code	1+	10+	25+	50+
Spiral Sleeving - 25m						
HWPP8 BLACK	9mm	167-4232				
HWPP8 GREY	9mm	167-4233				
HWPP8 WHITE	9mm	167-4234				
HWPP16 BLACK	16mm	167-4235				
HWPP16 GREY	16mm	167-4236				
HWPP16 WHITE	16mm	167-4238				
HWPP25 BLACK	27mm	167-4239				
HWPP25 GREY	27mm	167-4240				
HWPP25 WHITE	27mm	167-4241				

Cable Management - continued

Mfrs. List No.	Size	Order Code	1+	10+	25+	50+
Applicator Tool						
HAT8 BLUE		167-4242				
HAT16		167-4243				
HAT25		167-4244				
Clip - 50 Per Pack						
Price Per Pack						
HWCLIP08 BLACK	9mm	167-4245				
HWCLIP16 BLACK	15mm	167-4246				
HWCLIP25 BLACK	25mm	167-4247				
Clip Mount - 50 Per Pack						
HWBASEA		167-4248				



- Wraps wires, rubber hoses or cables in a protective enclosure
- Slits allow for 360° flexibility
- Greatly reduces assembly time, thus cost saving
- Reusable
- Applications include industrial robotics, medical instrumentation testing system, harness prototyping

Material Black Nylon 6 Deflection temperature 160°C @ 66 psi; 58°C @ 264 psi

Bundle Dia. (mm)	Dimensions (mm)			Harness Wrap (10m length)	Order Code
	A	B	C		
10	8	0.8	10	SHR08NB	118-7591
16	15	0.8	14	SHR15NB	118-7593
23	20	0.9	17	SHR20NB	118-7595
25	25	1	20	SHR25NB	118-7596

Spiral Binding

HellermannTyton



Spiral Binding is used for organising and protecting cables and hoses. Due to the spiral structure, spiral binding can be applied to cables or hoses in situ. Cable can branch out at any point and in any direction.

Operating Temperature -60°C to + 90°C intermittent +120°C
Flammability Rating **UL94 HB**

Mfrs. List No.	Bundle Dia.		Colour	Length (m)
	Min. (mm)	Max. (mm)		
Polyethylene				
SBPE4D NATURAL	5	20	Natural	5
SBPE4D NATURAL (30M)	5	20	Transparent	30
SBPE4D BLACK	5	20	Black	5
SBPE4D GREY	5	20	Grey	5
SBPE9D NATURAL	10	100	Natural	5
SBPE9D BLACK	10	100	Black	5
SBPE9D GREY	10	100	Grey	5
SBPE1.5 NATURAL	1.6	8	Natural	30
SBPE1.5 BLACK	1.6	8	Black	30
SBPE1.5 GREY	1.6	8	Grey	30
SBPE4 NATURAL	5	50	Natural	30
SBPE4 BLACK	5	20	Black	30
SBPE4 GREY	5	50	Grey	30
SBPE9 NATURAL	10	100	Natural	30
SBPE9 BLACK	10	100	Black	30
SBPE9 GREY	10	100	Grey	30
SBPE16 NATURAL	20	150	Natural	30
SBPE16 BLACK	20	150	Black	30
SBPE16 GREY	20	150	Grey	30
Polytetrafluoroethylene				
SBPTFE1.5 NATURAL	1.6	8	Natural	5
SBPTFE4 NATURAL	5	20	Natural	5
SBPTFE9 NATURAL	10	100	Natural	5

Mfrs. List No.	Order Code	Price Per Coil			
		1+	10+	25+	50+
SBPE4D NATURAL	167-4206				
SBPE4D NATURAL (30M)	142-2974				
SBPE4D BLACK	167-4207				
SBPE4D GREY	167-4208				
SBPE9D NATURAL	167-4209				
SBPE9D BLACK	167-4210				
SBPE9D GREY	167-4211				
SBPE1.5 NATURAL	167-4212				
SBPE1.5 BLACK	167-4214				
SBPE1.5 GREY	167-4215				
SBPE4 NATURAL	167-4216				
SBPE4 BLACK	167-4217				
SBPE4 GREY	167-4218				
SBPE9 NATURAL	167-4219				
SBPE9 BLACK	167-4220				
SBPE9 GREY	167-4221				
SBPE16 NATURAL	167-4222				
SBPE16 BLACK	167-4223				
SBPE16 GREY	167-4224				
SBPTFE1.5 NATURAL	167-4226				
SBPTFE4 NATURAL	167-4227				
SBPTFE9 NATURAL	167-4229				

Price Per Length

Bundle Dia.	Order Code	1+	5+	10+	20+	50+
Harness Wrap, 10m Length						
10mm	118-7591					
16mm	118-7593					
23mm	118-7595					
25mm	118-7596					

Installation Tool	Price Each				
	1+	5+	+	+	+
10mm	118-7587				
23mm	118-7589				

Mounting Clip	Price Per Pack			
	1+	5+	10+	50+
Snap Lock	165-7542			
Screw Mount	165-7543			

Cable Sleevings

Binding Sleeves 'Helsyn'

HellermannTyton



Extruded from a polychloroprene rubber compound to **UL94-HB**. Suitable for binding and identification of cable harnesses using indelible markers. Approved to **BS3G198** and **DEF-STAN 59-15**, complies with **BS3858**.

Operating Temperature	-65°C to 95°C	Proof Voltage	4000V
Intermittent temperature	120°C	Resistivity	10 ¹² Ω/cm
Maximum Cable Dia. (mm)	Internal dia. (mm)	Length (mm)	Suitable Tool Prongs
2.4	1.2	20	'SS'
3	1.5	20	'SS'
4	2	20	'SS'
6	3	25	'SS' or 'S'
10	5	25	'S'
15	7.5	25	'K'

100 Per Pack				Price Per Pack		
Max. Cable Dia. (mm)	Int Dia. (mm)	Mfrs. List No.	Order Code	1+	10+	25+
2.4	1.2	H12X20 BLACK	116-9015			
2.4	1.2	H12X20 BLUE	116-9016			
2.4	1.2	H12X20 PINK	116-9017			
2.4	1.2	H12X20 RED	116-9018			
3	1.5	H15X20 BLACK	116-9019			
3	1.5	H15X20 BLUE	116-9020			
3	1.5	H15X20 PINK	116-9021			
3	1.5	H15X20 RED	116-9022			
4	2	H20X20 BLACK	116-9023			
4	2	H20X20 BLUE	116-9024			
4	2	H20X20 BROWN	116-9027			
4	2	H20X20 PINK	116-9028			
4	2	H20X20 RED	116-9029			
6	3	H30X25 BLACK	116-9030			
6	3	H30X25 BLUE	116-9031			
6	3	H30X25 BROWN	116-9032			
6	3	H30X25 PINK	116-9033			
6	3	H30X25 RED	116-9034			
10	5	H50X25 BLACK	116-9035			
10	5	H50X25 BLUE	116-9036			
10	5	H50X25 PINK	116-9037			

IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items **farnell.com**

100 Per Pack				Price Per Pack		
Max. Cable Dia. (mm)	Int Dia. (mm)	Mftrs. List No.	Order Code	1+	10+	25+
10	5	H50X25 RED	116-9039			
15	7.5	H75X25 BLACK	116-9041			
15	7.5	H75X25 RED	116-9042			

500 Per pack				Price Per Pack		
Max. Cable Dia. (mm)	Int Dia. (mm)	Mftrs. List No.	Order Code	1+	10+	25+
2.4	1.2	H12X20 BLACK 500	116-8912			
3	1.5	H15X20 BLACK 500	116-8917			
4	2	H20X20 BLACK 500	116-8921			
6	3	H30X25 BLACK 500	116-8925			
10	5	H50X25 BLACK 500	116-8930			
15	7.5	H75X25 BLACK 500	116-8932			

Fitting Tools For Binding Sleeves

Fixed Prong and 'D' Kit



Two robustly constructed sleeve fitting tools, the 'SS' fixed prong tool is suitable for sleeves of an inside diameter up to 3.0mm, the tool with interchangeable prongs will cover all the sleeve ranges in the chart above. The 'D' kit is supplied with three sets of prongs, bottle of lubricant, three prong holding nuts, and a prong locator block which is recommended to be used when tightening the holding nuts.

224104

Mftrs. List No.	Order Code	1+	5+	10+
SS	303-150			
D KIT	151-080			

Lubricant



Recommended when fitting sleeves with the 'SS' and 147-754 tools. It is a non-conductor and can be used with all types of rubber and PVC parts. Supplied in a 10oz (284ml) bottle.

224105

Order Code	1+	4+	8+
101-619			

Non Shrinkable Tubing



Chloroprene tubing and grommets are highly elastic in nature. They have very good insulating characteristics and are easy to fit.

Material: Chloroprene (CR)
 Operating Temperature: -25°C to +100°C
 Flammability: UL94 HB and FMVSS-302
 Elongation at break: min. 400%

Mftrs. List No.	Diameter (mm)	Wall Thickness (mm)	Bundle Dia. max. (mm)	Length (mm)
HT0	1.25	0.5	2	20
HT1	1.75	0.5	3.5	20
HT1K	2.50	0.9	4	25
HT2	3.0	0.6	6	25
HT3	5.00	0.7	9	25
HT4	7.50	0.8	13	30

609786

100 Per Pack		Price Per Pack			
Mftrs. List No.	Order Code	1+	5+	10+	50+
HT0	133-5308				
HT1	133-5309				
HT1K	120-6293				
HT2	133-5311				
HT3	133-5312				
HT4	120-6295				

Pro-Power PVC Insulation Sleeving



Lead free flexible PVC insulation sleeving

- Operating Temp. -40°C to 105°C
- Wall thickness 0.5mm
- Dielectric strength 15KV / mm
- Supplied in a 100m coiled bundle

417997.435051

Nom.			Price Per Spool		
Bore Dia.	Colour	Order Code	1+	3+	10+
1 mm	Black	105-7925			
1 mm	Red	105-7926			
1 mm	Green / Yellow	105-7927			
2 mm	Black	105-7928			
2 mm	Brown	105-7929			
2 mm	Blue	105-7930			
2 mm	Red	105-7932			
3 mm	Green / Yellow	105-7933			
3 mm	Black	105-7934			
3 mm	Brown	105-7936			
3 mm	Blue	105-7937			
3 mm	Red	105-7939			
4 mm	Green / Yellow	105-7940			
4 mm	Black	105-7941			
4 mm	Brown	105-7942			
4 mm	Blue	105-7943			
4 mm	Grey	105-7944			
4 mm	Red	105-7945			
6 mm	Green / Yellow	105-7946			
6 mm	Black	105-7948			
6 mm	Blue	105-7950			
6 mm	Grey	105-7951			
7 mm	Black	105-7954			
7 mm	Red	105-7955			
8 mm	Black	105-7956			
10 mm	Black	105-7961			
10 mm	Red	105-7962			



Operating temperature: -65°C to +250°C
 Dielectric strength: 35kV/mm min. Colour: Natural

5m Coil				Price Per Coil			
Nom. Bore Dia. (mm)	AWG	Wall Thickness (mm)	Order Code	1+	5+	10+	25+
0.71	22	0.25	119-1042				
0.86	20	0.3	119-1043				
1.07	18	0.3	119-1045				
1.35	16	0.3	119-1046				
1.50	15	0.3	119-1047				
1.93	13	0.3	119-1048				
2.69	10	0.3	119-1049				
3.00	9	0.38	119-1050				

Multi-Purpose PVC Tubing



Applications:

- Flexible Wire Protection
- Resistance to Heat, Oil and Abrasion
- Ground Strap Protection

Characteristics:

- Operating Temperature: -55°C to 105°C
- Supplied in 30.5m Lengths

Nominal Inside Diameter (mm)	Reel Length (m)	Nominal Wall Thickness (mm)	Order Code
1.68	30.5	0.41	130-2780
2.41	30.5	0.41	130-2781
3.38	30.5	0.50	130-2782
4.22	30.5	0.50	130-2783
5.28	30.5	0.50	130-2785
5.94	30.5	0.50	130-2786
7.47	30.5	0.50	130-2787
9.52	30.5	0.63	130-2788
12.70	30.5	0.63	130-2789
19.05	15.2	0.88	130-2790

450528

Alpha Wire		Price Per Coil			
Part No.	Order Code	1+	5+	10+	25+
PVC-105-14	130-2780				
PVC-105-11	130-2781				
PVC-105-8	130-2782				
PVC-105-6	130-2783				
PVC-105-4	130-2785				

Cable Sleeving - continued

Multi-Purpose PVC Tubing - continued

Alpha Wire Part No.	Order Code	Price Per Coil			
		1+	5+	10+	25+
PVC-105-3	130-2786				
PVC-105-1	130-2787				
PVC-105-3/8	130-2788				
PVC-105-1/2A	130-2789				
PVC-105-3/4	130-2790				

PTFE Tubing



Characteristics:

- Operating Temperature: -65°C to 260°C
- Supplied in 30.5m Lengths

Applications:

- Excellent Heat and Chemical Resistance
- Superior Dielectric Strength
- Wire Harnesses
- High Temperature Component Covering

Nominal Inside Diameter (mm)	Nominal Wall Thickness (mm)	Order Code	Nominal Inside Diameter (mm)	Nominal Wall Thickness (mm)	Order Code
0.71	0.30	130-2800	1.93	0.41	130-2806
0.86	0.41	130-2801	2.41	0.41	130-2807
1.07	0.41	130-2803	3.38	0.50	130-2808
1.19	0.41	130-2804	3.76	0.50	130-2809
1.68	0.41	130-2805			

450530

Mfrs. List No.	Order Code	Price Per Coil			
		1+	5+	10+	25+
TFT-250-22	130-2800				
TFT-250-20	130-2801				
TFT-250-18	130-2803				
TFT-250-17	130-2804				
TFT-250-14	130-2805				
TFT-250-13	130-2806				
TFT-250-11	130-2807				
TFT-250-8	130-2808				
TFT-250-7	130-2809				

Uncoated Fibreglass Sleeving



Extremely flexible, abrasion resistant sleeving, ideal for applications necessitating operation up to 648°C (1200°F). Heat treated to remove all organic matter. Compatible with all insulation and conductor types.

Applications:

- Extreme Flexibility
- Extreme Heat Environments
- Component Covering

Characteristics:

- Operating Temperature: -60°C to 648°C
- Supplied in 30.5m Lengths

450529

Mfrs. List No.	Nominal Diameter (mm)	Order Code	Price Per Coil			
			1+	5+	10+	25+
PIF-240-18	1.07	130-2792				
PIF-240-9	3.00	130-2793				
PIF-240-2	6.68	130-2794				
PIF-240-0	8.38	130-2795				
PIF-240-3/8	9.52	130-2797				
PIF-240-7/16	11.12	130-2798				
PIF-240-1/2A	12.70	130-2799				

Helaglass Sleeving



Helaglass is a glass fibre braid lightly impregnated with silicone. Designed to be used for the insulation of wires in heating elements and other domestic appliances subject to high temperatures. This flexible glass-fibre braided sleeving is impregnated with silicone and is especially suited for thermal protection in lighting applications.

- Good resistance to chemical atmospheres
- Good flexibility
- Fireproof

Material	Glass fibre with silicone
Colour	White
Operating Temperature	-60°C to +250°C Continuous, (peaks of +450°C)
Flammability	Self-extinguishing

526407

25m Coil

Mfrs. List No.	Dia. (mm)	Order Code	Price Per Coil			
			1+	10+	25+	50+
GSS1	1	167-4264				
GSS1.5	1.5	167-4265				
GSS2	2	167-4266				
GSS2.5	2.5	167-4267				
GSS3	3	167-4268				
GSS4	4	167-4269				
GSS5	5	167-4270				
GSS6	6	167-4271				
GSS7	7	167-4272				
GSS8	8	167-4273				
GSS10	10	167-4275				

Silicone Varnished Glass Sleeving



Maximum Short Term Temperature Standards Applicable	450°C (Natural), 250°C (Black)
Electric Strength @ 20°C	NEMA VS-1: Grade C2 ASTM D-372: Type 4 IEC 684-2: 4kV for 1 minute ASTM D350: 1.5kV
Flammability	Non-ignitable

High temperature resistant, silicone impregnated glass fibre sleeving ideal for protecting against radial heat. Applications include lighting, domestic appliances, electrical motors and general wiring harnesses. Supplied in 5m cut lengths.

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Bore Size	Order Code	Price/Length	
		1+	3+
Natural			
2.0mm	124-2831		
4.0mm	124-2832		
6.0mm	124-2833		
8.0mm	124-2834		
Black			
4.0mm	124-2826		
6.0mm	124-2827		
8.0mm	124-2828		

2.5kV Acrylic Coated Glass Sleeving



High temperature resistant, 2.5kV acrylic coated glass fibre sleeving, which has good electrical and mechanical strength. Applications include lighting, domestic appliances, electrical motors and general wiring harnesses. Supplied in 5m cut lengths.

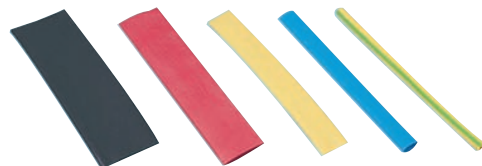
Construction	Braided Glass	Standard Applicable	IEC: 684-3-404
Thermal Classification	Class F 155°C		NEMA VS-1: Type6 – Grade C1
Max. Short Term Temp.	200°C	Electric Strength @ 20°C	IEC: 2.5kV for 1 minute NEMA VS-1: Grade C1 2.5kV

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Bore Size	Order Code	Price/Length	
		1+	5+
Black			
4mm	116-9770		
6mm	116-9771		
8mm	116-9767		
Yellow			
2mm	116-9768		
4mm	116-9772		
6mm	116-9773		

Heat Shrink Tubing

2:1 Shrink Ratio



- Assorted colour range
- UL224 recognised, CSA, LR54949 irradiated polyolefin
- 2:1 heat shrink ratio when heated to 100°C

- VW-1 flame retardant (except clear)
- Fuel, oils, hydraulic fuel resistant
- Dielectric strength = 20kv/mm min
- Operating temp. -55°C to +135°C

224095

Black

Dia.		Reel Length		Price Per Reel			
Nom. (mm)	Shrunk (mm)	(m)	Order Code	1+	3+	5+	10+
Black							
3.2	1.6	150	119-0768				
4.8	2.4	150	119-0769				
6.4	3.2	75	119-0770				
9.5	4.7	75	119-0771				
12.7	6.3	75	119-0772				
19	9.5	60	119-0773				

Dia.		Price Per Length	
Nom. (mm)	Shrunk (mm)	Order Code	1+ 5+ 10+ 25+ 50+ 100+

Black - 1.2m Lengths

1.6	0.8	119-0778	
2.4	1.2	119-0779	
3.2	1.6	119-0781	
4.8	2.4	119-0782	
6.4	3.2	119-0783	
9.5	4.7	119-0784	
12.7	6.3	119-0785	
19	9.5	119-0786	
38.1	19	119-0789	
50.8	25.4	119-0790	

Dia.		Price Per Coil	
Nom. (mm)	Shrunk (mm)	Order Code	1+ 5+ 10+ 25+ 50+ 100+

Black - 5m Coils

9.5	4.7	119-0796	
12.7	6.3	119-0797	

Clear - 1.2m Lengths

Dia.		Price Per Length	
Nom.	Shrunk	Order Code	1+ 5+ 10+ 25+ 50+ 100+
2.4	1.2	119-0804	
19.1	9.5	119-0811	

Clear - 5m Coils

Dia.		Price Per Coil	
Nom.	Shrunk	Order Code	1+ 5+ 10+ 25+ 50+ 100+
6.4	3.2	119-0820	

Clear - Standard Reels

Dia.		Reel Length		Price Per Reel			
Nom.	Shrunk	(m)	Order Code	1+	3+	5+	10+
3.2	1.6	150	119-0828				
4.8	2.4	150	119-0831				
9.5	4.7	75	119-0833				
12.7	6.3	75	119-0834				
19	9.5	60	119-0835				

Yellow - 1.2m Lengths

Dia.		Price Per Length	
Nom.	Shrunk	Order Code	1+ 5+ 10+ 25+ 50+ 100+
1.6	0.8	119-0837	
2.4	1.2	119-0839	
3.2	1.6	119-0840	
4.8	2.4	119-0841	
6.4	3.2	119-0843	
9.5	4.7	119-0844	
12.7	6.3	119-0845	
19	9.5	119-0846	
25.4	12.7	119-0847	
38.1	19	119-0848	
50.8	25.4	119-0849	

Blue - 1.2m Lengths

Dia.		Price Per Length	
Nom.	Shrunk	Order Code	1+ 5+ 10+ 25+ 50+ 100+
1.6	0.8	119-0886	
2.4	1.2	119-0887	
3.2	1.6	119-0888	
4.8	2.4	119-0889	
6.4	3.2	119-0890	
9.5	4.7	119-0892	
12.7	6.3	119-0893	
19	9.5	119-0894	
25.4	12.7	119-0895	

231143

Green - 1.2m Lengths

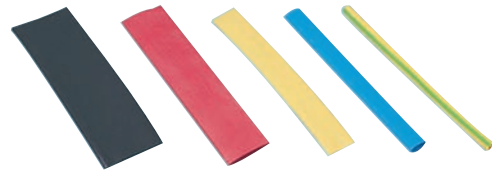
Dia.		Price Per Length	
Nom.	Shrunk	Order Code	1+ 5+ 10+ 25+ 50+ 100+
1.6	0.8	119-0931	
2.4	1.2	119-0932	
3.2	1.6	119-0934	
4.8	2.4	119-0935	
6.4	3.2	119-0936	
9.5	4.7	119-0937	
12.7	6.3	119-0938	
19	9.5	119-0939	
25.4	12.7	119-0940	
38.1	19	119-0941	

Green - 5m Coils

Dia.		Price Per Coil	
Nom.	Shrunk	Order Code	1+ 5+ 10+ 25+ 50+ 100+
1.6	0.8	119-0942	
2.4	1.2	119-0943	
3.2	1.6	119-0944	
4.8	2.4	119-0946	
9.5	4.7	119-0948	
12.7	6.3	119-0949	

Green/Yellow Earth - 1.2m Lengths

Dia.		Price Per Length	
Nom.	Shrunk	Order Code	1+ 5+ 10+ 25+ 50+ 100+
3.2	1.6	119-0960	
4.8	2.4	119-0961	
6.4	3.2	119-0962	
9.5	4.7	119-0963	
12.7	6.3	119-0964	
19	9.5	119-0965	
25.4	12.7	119-0966	

Normal Wall Flame Retardant Heat Shrinkable Tubing

- Shrink ratio 2:1
- Shrink temperature 70°C to 110°C
- Operating temperature -55°C to 125°C
- Variety of colours available
- Supplied in 5m lengths & 100m spools
- Material - Cross-Linked, thermally stabilized flame retardant polyolefin
- UL recognised UL224, VW-1, C-UL CSA 22.2 OFT

Tensile Strength	14.8 Mpa	Elongation after ageing	480%		
Elongation	460%	Dielectric Strength	17kV/mm		
Tensile Strength after ageing	14.5 Mpa				
Size	Nom. Unshrunk	Nom. Shrunk	Size	Nom. Unshrunk	Nom. Shrunk
1.6mm	1.60mm	0.80mm	9.5mm	9.50mm	4.75mm
2.4mm	2.40mm	1.20mm	12.7mm	12.70mm	6.40mm
3.2mm	3.20mm	1.60mm	19.0mm	19.00mm	9.50mm
4.8mm	4.80mm	2.40mm	25.4mm	25.40mm	12.70mm
6.4mm	6.40mm	3.20mm	38.1mm	38.10mm	19.10mm
			50.8mm	50.80mm	25.40mm

419116.407530

Size		Price Per Length	
Length	Order Code	1+	5+
Black			
1.6mm	100m	100-8428	
2.4mm	100m	100-8429	
3.2mm	100m	100-8430	
4.8mm	100m	100-8431	
6.4mm	100m	100-8433	
9.5mm	100m	100-8434	
12.7mm	100m	100-8435	
19mm	100m	100-8436	
25.4mm	50m	100-8437	
38.1mm	50m	100-8438	
50.8mm	25m	100-8439	
1.6mm	5m	100-8440	
2.4mm	5m	100-8441	
3.2mm	5m	100-8442	
4.8mm	5m	100-8443	
6.4mm	5m	100-8445	
9.5mm	5m	100-8446	
12.7mm	5m	100-8447	
19mm	5m	100-8448	

Heat Shrink Tubing - continued

Normal Wall Flame Retardant - continued

Size	Length	Order Code	Price Per Length	
			1+	5+
Black				
25.4mm	5m	100-8449●		
38.1mm	5m	100-8450●		
50.8mm	5m	100-8451●		
Clear				
1.6mm	100m	100-8452●		
2.4mm	100m	100-8453●		
3.2mm	100m	100-8454●		
4.8mm	100m	100-8455●		
6.4mm	100m	100-8457●		
9.5mm	100m	100-8458●		
12.7mm	100m	100-8459●		
19mm	100m	100-8460●		
25.4mm	50m	100-8461●		
1.6mm	5m	100-8464●		
2.4mm	5m	100-8465●		
3.2mm	5m	100-8466●		
4.8mm	5m	100-8467●		
6.4mm	5m	100-8469●		
9.5mm	5m	100-8471●		
12.7mm	5m	100-8472●		
19mm	5m	100-8473●		
25.4mm	5m	100-8474●		
38.1mm	5m	100-8475●		
50.8mm	5m	100-8476●		
Red				
1.6mm	100m	100-8477●		
2.4mm	100m	100-8478●		
3.2mm	100m	100-8479●		
4.8mm	100m	100-8480●		
6.4mm	100m	100-8482●		
9.5mm	100m	100-8483●		
12.7mm	100m	100-8484●		
1.6mm	5m	100-8489●		
2.4mm	5m	100-8490●		
3.2mm	5m	100-8491●		
4.8mm	5m	100-8492●		
6.4mm	5m	100-8494●		
9.5mm	5m	100-8495●		
12.7mm	5m	100-8496●		
19mm	5m	100-8497●		
25.4mm	5m	100-8498●		
38.1mm	5m	100-8499●		
Yellow				
1.6mm	5m	100-8514●		
2.4mm	5m	100-8515●		
3.2mm	5m	100-8516●		
4.8mm	5m	100-8517●		
6.4mm	5m	100-8518●		
9.5mm	5m	100-8519●		
12.7mm	5m	100-8520●		
19mm	5m	100-8521●		
25.4mm	5m	100-8522●		
38.1mm	5m	100-8524●		
White				
1.6mm	100m	100-8526●		
2.4mm	100m	100-8527●		
3.2mm	100m	100-8528●		
4.8mm	100m	100-8529●		
6.4mm	100m	100-8530●		
9.5mm	100m	100-8531●		
12.7mm	100m	100-8532●		
38.1mm	50m	100-8536●		
50.8mm	25m	100-8537●		
1.6mm	5m	100-8538●		
2.4mm	5m	100-8539●		
3.2mm	5m	100-8540●		
4.8mm	5m	100-8541●		
6.4mm	5m	100-8542●		
9.5mm	5m	100-8543●		
12.7mm	5m	100-8544●		
25.4mm	5m	100-8546●		
38.1mm	5m	100-8548●		
50.8mm	5m	100-8549●		
Blue				

Size	Length	Order Code	Price Per Length	
			1+	5+
Blue				
1.6mm	100m	100-8550●		
2.4mm	100m	100-8551●		
3.2mm	100m	100-8552●		
4.8mm	100m	100-8553●		
6.4mm	100m	100-8554●		
9.5mm	100m	100-8555●		
12.7mm	100m	100-8556●		
1.6mm	5m	100-8563●		
2.4mm	5m	100-8564●		
3.2mm	5m	100-8565●		
4.8mm	5m	100-8566●		
6.4mm	5m	100-8567●		
9.5mm	5m	100-8569●		
12.7mm	5m	100-8570●		
19mm	5m	100-8571●		
25.4mm	5m	100-8573●		
38.1mm	5m	100-8574●		
50.8mm	5m	100-8575●		
Green/Yellow				
1.6mm	100m	100-8576●		
2.4mm	100m	100-8577●		
3.2mm	100m	100-8578●		
4.8mm	100m	100-8579●		
6.4mm	100m	100-8580●		
9.5mm	100m	100-8581●		
12.7mm	100m	100-8582●		
19mm	100m	100-8583●		
25.4mm	50m	100-8585●		
1.6mm	5m	100-8588●		
2.4mm	5m	100-8589●		
3.2mm	5m	100-8590●		
4.8mm	5m	100-8591●		
6.4mm	5m	100-8592●		
9.5mm	5m	100-8593●		
12.7mm	5m	100-8594●		
19mm	5m	100-8595●		
38.1mm	5m	100-8598●		
50.8mm	5m	100-8599●		
Brown				
1.6mm	5m	100-8612●		
2.4mm	5m	100-8613●		
3.2mm	5m	100-8615●		
4.8mm	5m	100-8616●		
6.4mm	5m	100-8617●		
9.5mm	5m	100-8618●		
12.7mm	5m	100-8619●		
19mm	5m	100-8620●		
25.4mm	5m	100-8621●		
38.1mm	5m	100-8622●		
50.8mm	5m	100-8623●		
Grey				
1.6mm	100m	129-5001●		
2.4mm	100m	129-5002●		
3.2mm	100m	129-5003●		
4.8mm	100m	129-5004●		
6.4mm	100m	129-5005●		
9.5mm	100m	129-5006●		
12.7mm	100m	129-5008●		
19mm	100m	129-5009●		
25.4mm	50m	129-5010●		
38.1mm	50m	129-5011●		
50.8mm	25m	129-5012●		
1.6mm	5m	129-5013●		
2.4mm	5m	129-5014●		
3.2mm	5m	129-5015●		
4.8mm	5m	129-5016●		
6.4mm	5m	129-5017●		
9.5mm	5m	129-5018●		
12.7mm	5m	129-5021●		
19mm	5m	129-5022●		
25.4mm	5m	129-5023●		
38.1mm	5m	129-5024●		
50.8mm	5m	129-5025●		

2:1 Shrink Ratio Dispenser Boxes



- 2:1 Shrink ratio
- Adhesive lined
- Self-extinguishing
- Operating temperature: -40°C to +125°C
- Wide range of colours, including Green/Yellow earth strip

Ten size and six colour variations of thin-walled heatshrink tubing in easy to dispense display cartons. Manufactured from cross-linked semi-flexible polyolefin which shrinks uniformly to form a permanent insulating covering. Upon recovery, thin wall tube will conform to the shape it is applied

over. Ideal for low voltage electrical insulation up to 1000V.

Mfrs.	Black (BLK)	Brown (BR)	Clear (C)	Blue (BLUE)	Green / Yellow (GY)	Grey (GRY)
List No. *						
HSB1206	169-7934	169-7935	169-7937	169-7938	169-7939	169-7940
HSB1608	169-7941	169-7942	169-7943	169-7944	169-7945	169-7946
HSB2412	169-7947	169-7949	169-7951	169-7952	169-7953	169-7954
HSB3216	169-7955	169-7956	169-7957	169-7958	169-7959	169-7960
HSB4824	169-7962	169-7963	169-7964	169-7965	169-7966	169-7967
HSB7030	169-7968	169-7969	169-7970	169-7971	169-7972	169-7974
HSB10050	169-7975	169-7976	169-7977	169-7978	169-7979	169-7980
HSB13060	169-7981	169-7982	169-7983	169-7984	169-7986	169-7987
HSB190100	169-7988	169-7989	169-7990	169-7991	169-7992	169-7993
HSB260120	169-7994	169-7995	169-7996	169-7998	169-7999	169-8001

* (Add Colour Suffix to Mfrs. List No.)

533983

Mfrs.	Dia. (mm)	Length (m)	Order Code	Price Per Reel
List No.	Nom.	Shrunk		1+ 10+ 25+ 50+
HSB1206	1.2	0.6	15 ● All Colours	
HSB1608	1.6	0.8	15 ● All Colours	
HSB2412	2.4	1.2	15 ● All Colours	
HSB3216	3.2	1.6	15 ● All Colours	
HSB4824	4.8	2.4	10 ● All Colours	
HSB7030	6.4	3.2	10 ● All Colours	
HSB10050	9.5	4.7	10 ● All Colours	
HSB13060	12.7	6.4	8 ● All Colours	
HSB190100	19.1	9.5	7 ● All Colours	
HSB260120	25.4	12.7	4 ● All Colours	

Rayspool® Dispensing System



- The Rayspool® system consists of 6 sizes of 2:1 Black general purpose flame retardant tubing and a dispensing rack
- The tubing is supplied on small reels which are over boxed and feature a dispensing window allowing the tubing to be easily accessed
- Ideal for use in workshops, service vehicles and laboratories
- Supplied as a kit comprising a rack and one spool in each of the following sizes: 2.4, 3.2, 4.8, 6.4, 12.7 and 25.4
- Easy to store and dispense
- For refills and details of heatshrink specifications see below

Heatshrink material Polyolefin
Shrink Ratio 2:1
Shrink temperature 85°C
Colour Black
Operating temp. -40°C to +135°C

242875

Order Code	1+	2+	10+	50+
CGPT Kit	121-0573 ●			

CGPT Rayspool® Refills



- Flexible general purpose tubing
- Flame retardant
- Resistant to most chemicals and solvents
- Excellent physical and electrical performance
- 2:1 shrink ratio
- Minimum shrink temperature +80°C

- Operating temperature -40°C to +135°C

242876

Dia. (mm)	Price Per Reel
Nom. Shrunk Length (m)	Order Code 1+ 2+ 10+ 50+
1.6 0.8 10	121-0562 ●
2.4 1.2 10	121-0564 ●
3.2 1.6 10	121-0565 ●
4.8 2.4 9	121-0566 ●
6.4 3.2 8	121-0568 ●
9.5 4.8 6	121-0569 ●
12.7 6.4 6	121-0570 ●
19 9.5 5	121-0571 ●
25.4 12.7 3	121-0572 ●

Low Shrink Temperature (LSTT) Heatshrinkable Polyolefin Tubing



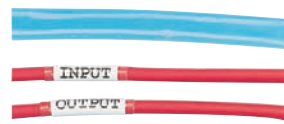
- Black, low shrink temperature heat shrinkable tubing
- Exceptional fast recovery for maximum efficiency in high volume commercial applications
- Suitable for use on or near delicate temperature sensitive materials such as PVC cables and wire
- 2:1 Shrink ratio
- Rapid recovery at low temperatures
- Kit available, consisting of 2.4, 3.2, 4.8, 6.4, 12.7 & 25.4mm boxes plus dispenser rack
- Extremely flexible
- Excellent physical and electrical performance
- Not flame retardant
- Minimum shrink temperature: 65°C
- Minimum full recovery temperature: 110°C
- Operating temperature: -40 to 125°C
- Supplied on Rayspool® boxed spools

Size/Inner Dia. Minimum Expanded as supplied	Maximum Recovered after heating	Reel Length	Order Code
1.6mm (0.063")	0.8mm (0.031")	10m	496-7136
2.4mm (0.093")	1.2mm (0.046")	10m	496-7148
3.2mm (0.125")	1.6mm (0.062")	10m	496-7150
4.8mm (0.187")	2.4mm (0.093")	9m	496-7161
6.4mm (0.250")	3.2mm (0.125")	8m	496-7173
9.5mm (0.375")	4.8mm (0.187")	6m	496-7185
12.7mm (0.500")	6.4mm (0.250")	6m	496-7197
25.4mm (1.00")	12.7mm (0.500")	3m	496-7215
Kit			496-7227

338635

Order Code	1+	5+
LSTT-R-1.6-0	496-7136 ●	
LSTT-R-2.4-0	496-7148 ●	
LSTT-R-3.2-0	496-7150 ●	
LSTT-R-4.8-0	496-7161 ●	
LSTT-R-6.4-0	496-7173 ●	
LSTT-R-9.5-0	496-7185 ●	
LSTT-R-12.7-0	496-7197 ●	
LSTT-R-25.4-0	496-7215 ●	
LSTT-R-KIT-1	496-7227 ●	

RT-375 Super Clear- 2:1 Shrink Ratio



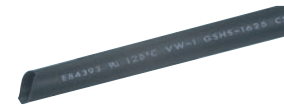
- Flexible modified Clear fluoropolymer tubing
- Extreme clarity
- Excellent physical and electrical properties
- 2:1 shrink ratio
- Flame retardant to VW-1

- UL, CSA and MIL-DTL-23053/18
- Minimum shrink temperature +125°C
- Operating temperature -55°C to 150°C

208300

1.2 Lengths	Dia. (mm)	Mfrs.	Order Code	Price Per Length
	Nom. Shrunk	List No.		1+ 5+ 10+ 25+
	1.2 0.6	RT-375-3/64-X-STK	121-0443 ●	
	1.6 0.8	RT-375-1/16-X-STK	121-0444 ●	
	6.4 3.2	RT-375-1/4-X-STK	121-0449 ●	
	9.5 4.8	RT-375-3/8-X-STK	121-0450 ●	
	19.1 9.5	RT-375-3/4-X-STK	121-0453 ●	
	25.4 12.7	RT-375-1-X-STK	121-0454 ●	

UL Marked 2:1 Shrink Ratio



- Black marked polyolefin heat shrink tubing
- Resistant to fuel, oils, hydraulic fluid
- Flame retardant to VW-1, UL224, CSA C22.2, manufactured to MIL-DTL-23053/5

Dielectric strength 25kV/mm min. Operating temperature -55°C to 135°C

219619

Dia. (mm)	Price Per Length
Nom. Shrunk Order Code	1+ 5+ 10+ 25+ 50+ 100+
Black - 1.2m Lengths	
1.2 0.6	119-0977 ●
1.6 0.8	119-0978 ●
2.4 1.2	119-0979 ●
3.2 1.6	119-0980 ●
4.8 2.4	119-0981 ●
6.4 3.2	119-0983 ●
9.5 4.7	119-0984 ●
12.7 6.3	119-0985 ●
19 9.5	119-0986 ●
25.4 12.7	119-0987 ●

Heat Shrink Tubing - continued

UL Marked 2:1 Shrink Ratio - continued

Dia. (mm)		Nom.		Shrunk		Order Code		Price Per Length			
		Black - 1.2m Lengths		1+	5+	10+	25+	50+	100+		
								Price Per Coil			
Black - 5m Coils		1+	5+	10+	25+	50+	100+				
1.2	0.6	119-0988	●								
1.6	0.8	119-0989	●								
2.4	1.2	119-0990	●								
3.2	1.6	119-0991	●								
4.8	2.4	119-0992	●								
6.4	3.2	119-0993	●								
9.5	4.7	119-0995	●								
12.7	6.3	119-0996	●								
19	9.5	119-0997	●								

Low Temperature - 2:1 Shrink Ratio



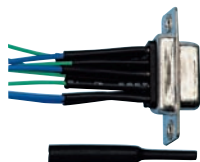
Black UL and CSA recognised irradiated polyolefin heat shrink tubing with a shrink ratio of 2:1 when heated to and above 80°C making it particularly suitable for use with delicate or heat sensitive components. Flame retardant to VW-1, resistant to fuel, oils, hydraulic fluids and meets UL224 and CSA LR55659 specifications.

Dielectric strength 20kV/mm min. Operating temperature -55°C to 125°C 208006

Dia. (mm)		Nom.		Shrunk		Order Code		Price Per Length			
		Black - 1.2m Lengths		1+	5+	10+	25+	50+			
1.6	0.8	121-0327	●								
3.2	1.6	121-0330	●								
4.8	2.4	121-0331	●								
6.4	3.2	121-0332	●								
12.7	6.3	121-0334	●								
19	9.5	121-0335	●								
25.4	12.7	121-0337	●								

Black - 5m Coils		1+	5+	10+	25+	50+
1.6	0.8	121-0338	●			
0	1.2	121-0339	●			
3.2	1.6	121-0340	●			
4.8	2.4	121-0341	●			
6.4	3.2	121-0342	●			
9.5	4.7	121-0343	●			
19	9.5	121-0345	●			
25.4	12.7	121-0346	●			

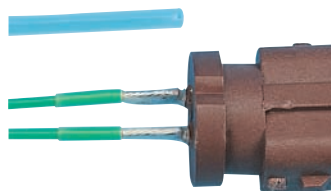
Ultra Thin-Wall - 2:1 Shrink Ratio



- Rapid shrink at 90°C
- For use where space is limited
- Applications include termination on multipole and 'D' connectors
- Operating temperature range -55°C to +125°C

Black 1.2m length		Dia. (mm)		Nom.		Shrunk		Order Code		Price Per Length			
				1+	10+	25+	50+						
1.2	0.6	119-0999	●										
1.6	0.8	119-1000	●										
2.4	1.2	119-1001	●										
3.2	1.6	119-1002	●										
4.8	2.4	119-1004	●										
6.4	3.2	119-1006	●										

KYNAR™ Semi-Rigid—2:1 Shrink Ratio



- Clear 2:1 heat shrink to MIL-DTL-23053/8 when heated to 175°C
- High operating temperature, good mechanical and chemical resistance
- Flame retardant to VW-1, resistant to fuel, oil, hydraulic fluid

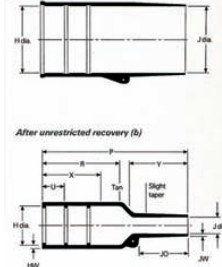
Dielectric strength 32kV/mm min. Operating temperature -55°C to +175°C 208099

1.2m Lengths		Dia. (mm)		Nom.		Shrunk		Order Code		Price Per Length			
				1+	5+	10+	25+	50+	100+				
1.2	0.6	121-0600	●										
1.6	0.8	121-0601	●										
2.4	1.2	121-0602	●										
3.2	1.6	121-0603	●										
4.8	2.4	121-0604	●										
6.4	3.2	121-0605	●										
9.5	4.8	121-0606	●										
12.7	6.4	121-0607	●										
19	9.5	121-0608	●										
25.4	12.7	121-0611	●										

Low Fire Hazard Heatshrink Boots



NEW



Use in conjunction with adapters to provide strain relief for harness systems using circular connectors. Boot is compatible with all grooved adapters of the appropriate shell size.

- Material: Polyolefin
- Min. shrink temperature: 120°C

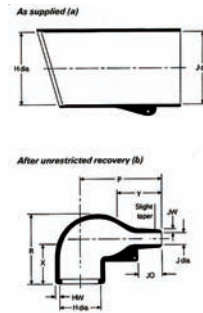
Mftrs. List No.	As supplied Max. (mm)	H	J	H	After recovery Max. (mm)	J	P	R
202K121-100-0	24	24	10.4	5.6	38	21		
202K132-100-0	30	30	14.2	5.9	55	32		
202K142-100-0	31	31	18	7.1	67	35		
202K153-100-0	36	36	22.4	8.4	80	42		

Mftrs. List No.	Order Code	1+	5+	10+	
202K121-100-0	189-1527	●			
202K132-100-0	189-1528	●			
202K142-100-0	189-1529	●			
202K153-100-0	189-1530	●			

Right Angled Heatshrink Boots



NEW



Use in conjunction with adapters to provide strain relief for harness systems using circular connectors. Boot is compatible with all grooved adapters of the appropriate shell size. Manufactured from polyolefin.

Mftrs. List No.	As supplied Max. (mm)	H	J	H	After recovery Max. (mm)	J	P	R
222K121-100-0	24	24	10.4	5.6	25	25		
222K132-100-0	30	30	14.2	5.9	32	27		
222K142-100-0	31	31	18	7.1	39	31		
222K152-100-0	36	36	22.4	8.4	46	38		

Mftrs. List No.	Order Code	1+	5+	10+	
222K121-100-0	189-1531	●			
222K132-100-0	189-1532	●			
222K142-100-0	189-1533	●			
222K152-100-0	189-1535	●			

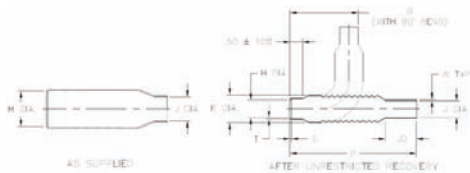
Heatshrink Uniboosts



NEW



Use to provide abrasion protection for connectors. The flexibility of design allows a variety of cable outlet angles. When installed on a spin coupling adapter, cold re-entry to the connectors is possible by compressing the moulded part.



● Material: Fluoroelastomer polymer blend. ● Min. shrink temperature: 150°C

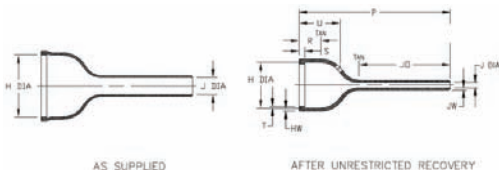
Mftrs. List No.	As supplied Max. (mm)		After recovery Max. (mm)									
	H	J	H	J	K	P	JO	S	T	W	B	
202C611-50-0	14.2	11.2	6.9	4.8	21.1	120.7	17.5	1.52	1.27	0.33	62.5	
202C621-50-0	22.4	17.8	11.7	8.1	26.7	133.4	19.8	1.52	1.27	0.46	67.8	
202C632-50-0	34	26.9	17.5	12.7	32.8	146.1	22.4	1.78	1.27	0.51	73.4	
202C642-50-0	44.2	36.6	22.4	17.5	37.8	158.8	25.4	1.78	1.27	0.61	78.2	
202C653-50-0	53.8	45.7	27.9	22.4	42.9	171.5	28.4	1.78	2.03	0.61	82.8	

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
202C611-50-0	189-1496			
202C621-50-0	189-1497			
202C632-50-0	189-1498			
202C642-50-0	189-1499			
202C653-50-0	189-1500			

Heatshrink Boots



Use with circular connectors and appropriate backshell adapter to provide connector/cable strain relief. Boot is used in applications where only a small number of the available contacts are utilized, thus resulting in a high ratio between the adapter and cable diameters.



● Material: Fluid resistant elastomer. ● Min. shrink temperature: 135°C

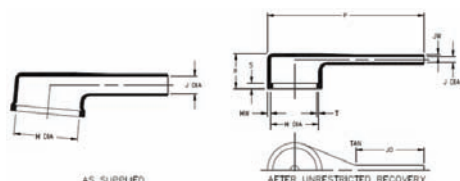
Mftrs. List No.	As supplied Max. (mm)		After recovery Max. (mm)									
	H	J	H	J	P	R	S	T	U	JO	HW	JW
202D921-25-0	19.3	6.3	13	2.1	60.2	11.7	3	1	15.7	37.6	1.5	1.14
202D932-25-0	26.1	7.6	19.1	2.6	74.2	12.2	3	1	20.3	45	1.8	1.14
202D953-25-0	34.2	9.6	26	3.1	84.3	12.2	3	1	20.9	51.1	1.8	1.14
202D963-25-0	43.6	11.4	34.1	3.6	99.6	12.2	3	1.65	26.2	57.7	1.8	1.14

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
202D921-25-0	189-1501			
202D932-25-0	189-1502			
202D953-25-0	189-1503			
202D963-25-0	189-1504			

Right Angled Heatshrink Boots



Provides strain relief and mechanical protection between cable and connector. It is used in applications where only a small number of the available contacts are utilized, resulting in a high ratio between the adapter and cable diameters.

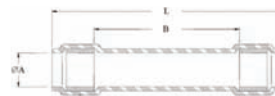


● Material: Fluid resistant elastomer. ● Min. shrink temperature: 135°C

Mftrs. List No.	As supplied Max. (mm)		After recovery Max. (mm)									
	H	J	H	J	P	R	S	T	U	JO	HW	JW
222D921-25-0	19.3	6.3	13	2.1	44.5	16.3	3.05	1.02	21.8	1.52	1.14	
222D932-25-0	26.1	7.6	19.1	2.6	67.3	18	3.05	1.02	29.2	1.78	1.14	
222D953-25-0	34.2	9.6	26	3	81.3	18.8	3.05	1.02	36.3	1.78	1.14	

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
222D921-25-0	189-1505			
222D932-25-0	189-1506			
222D953-25-0	189-1507			

High Temperature Heatshrink Tubing



NEW

Suitable for commercial applications requiring heat resistance (electrical and hydraulic systems near aircraft or automotive engines or in fuel tanks), applications in chemically exposed environments (industrial process equipment in the pulp and paper, steel and chemical industries), and equipment for handling caustic or dangerous chemicals or inks. Use for insulation and strain relief on appliances (electric ranges, microwave ovens, gas grills, and industrial paint drying equipment) and for protection instruments in down hole applications.

- Resistance to high temperature, solvents, corrosive chemicals and radiation
- Extreme resistance to hydrocarbons
- High flame retardant
- Low outgassing
- Min. shrink temperature: 150°C

Mftrs. List No.	Dimensions (mm)		
	L	B	ØA
RT-555-3/8-2.75-A260-0	69.9	25.4	8.3
RT-555-3/8-4.75-A260-0	120.7	76.2	8.4
RT-555-1/2-2.75-A260-0	69.9	25.4	11.4
RT-555-1/2-5.75-A260-0	146.1	101.6	11.4
RT-555-3/4-3.00-A260-0	76.2	31.8	17.7
RT-555-3/4-6.75-A260-0	171.5	127	17.7
RT-555-1.0-3.75-A260-0	95.3	50.8	22.8
RT-555-1.0-6.75-A260-0	171.5	127	22.8

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
RT-555-3/8-2.75-A260-0	189-1481			
RT-555-3/8-4.75-A260-0	189-1482			
RT-555-1/2-2.75-A260-0	189-1483			
RT-555-1/2-5.75-A260-0	189-1484			
RT-555-3/4-3.00-A260-0	189-1485			
RT-555-3/4-6.75-A260-0	189-1486			
RT-555-1.0-3.75-A260-0	189-1487			
RT-555-1.0-6.75-A260-0	189-1488			

Heavy Duty Breakout Heatshrink Boots



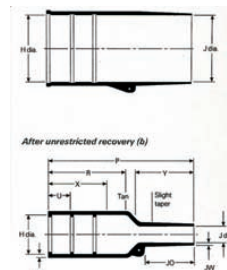
These flame retardant heatshrinkable transitions are especially designed for shipboard applications and meet or exceed all of the specifications described in MIL-I-81765/1A. The transitions are made of a rugged, thermally stabilized, modified polyolefin and factory coated with a thermoplastic adhesive sealant.

- Watertight
- Easy installation
- Compatibility with polyethylene, PVC, lead and copper wire and cable
- Min. shrink temperature 121°C

Mftrs. List No.	Number of Legs	Inside Dia. Base (mm)		Inside Dia. Legs (mm)		Leg Length (mm)	Body Length (mm)
		Supplied	Recovered	Supplied	Recovered		
SSB-1202FR	2	40.64	11.43	13.97	3.81	36.83	62.32
SSB-2002FR	2	50.8	35.56	19.05	8.89	69.85	88.9
T3-9FR	3	22.86	9.14	8.38	2.29	19.05	50.8
T14-23FR	3	30.48	17.78	12.7	4.57	25.4	60.96
T150-300FR	3	60.96	35.56	30.48	12.7	40.6	88.9
T-400FR	3	81.28	50.8	35.56	17.78	40.6	88.9
F42-60-FR	4	44.45	25.4	20.32	8.13	30.48	63.5

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
SSB-1202FR	189-1538			
SSB-2002FR	189-1539			
T3-9FR	189-1540			
T14-23FR	189-1541			
T150-300FR	189-1542			
T-400FR	189-1543			
F42-60-FR	189-1544			

Adhesive Lined Heatshrink Boots



NEW

Use in conjunction with adapters to provide strain relief for harness systems using circular connectors. Boot is compatible with all grooved adapters of the appropriate shell size.

- Material: Fluid resistant elastomer, adhesive lined
- Min. shrink temperature: 135°C

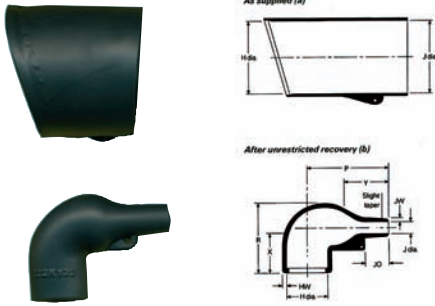
Heat Shrink Tubing - continued

Adhesive Lined Heatshrink Boots - continued

Mftrs. List No.	As supplied Max. (mm)		After recovery Max. (mm)			
	H	J	H	J	P	R
202K121-25/225-0	24	24	10.4	5.6	38	21
202K132-25/225-0	30	30	14.2	5.9	55	32
202K142-25/225-0	31	31	18	7.1	67	35
202K153-25/225-0	36	36	22.4	8.4	80	42
202K163-25/225-0	43	43	28.2	9.9	99	61

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
202K121-25/225-0	189-1545			
202K132-25/225-0	189-1547			
202K142-25/225-0	189-1548			
202K153-25/225-0	189-1549			
202K163-25/225-0	189-1550			

Adhesive Lined Right Angled Heatshrink Boots



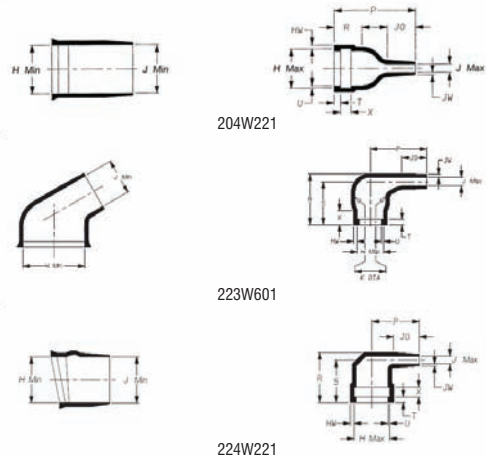
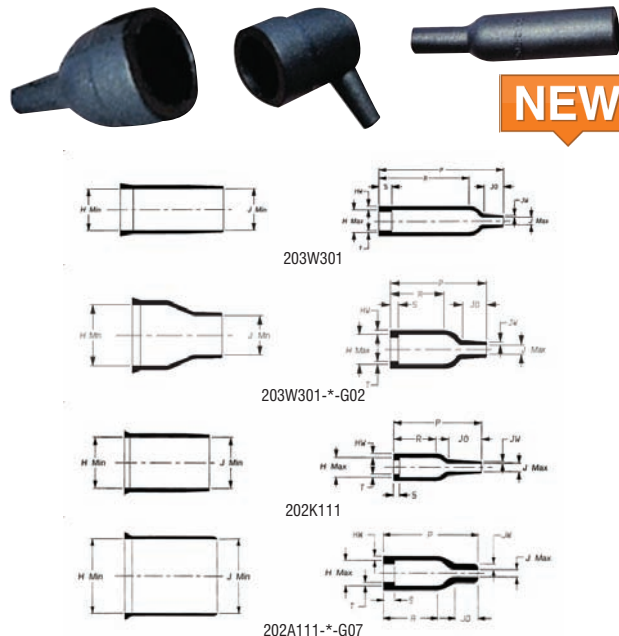
Use in conjunction with adapters to provide strain relief for harness systems using circular connectors. Boot is compatible with all grooved adapters of the appropriate shell size.

- Material: Fluid resistant elastomer, adhesive lined
- Min. shrink temperature: 135°C

Mftrs. List No.	As supplied Max. (mm)		After recovery Max. (mm)			
	H	J	H	J	P	R
222K121-25/225-0	24	24	10.4	5.6	25	25
222K132-25/225-0	30	30	14.2	5.9	32	27
222K142-25/225-0	31	31	18	7.1	39	31
222K152-25/225-0	36	36	22.4	8.4	46	38
222K163-25/225-0	43	43	28.2	9.9	55	45

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
222K121-25/225-0	189-1551			
222K132-25/225-0	189-1552			
222K142-25/225-0	189-1553			
222K152-25/225-0	189-1554			
222K163-25/225-0	189-1555			

Heatshrink Boots



A heat-shrinkable, semi rigid, fluid and temperature resistant, elastomeric molding compound, designed to offer excellent performance in harsh environments. Ideal for use in military and commercial vehicles where high temperatures and long term exposure to hot fluids is expected.

- Small size
- Supplied in expanded form
- Strain relief
- Environmental sealing against fluid and dirt ingress
- Suitable for a wide range of application and environmental requirements for low fire hazard, flame retardance, high temperatures and fluid resistant characteristics. Applications from underwater to outer space, in military vehicles to cars, rail & mass transit.

Mftrs. List No.	As supplied Min. (mm)		After recovery Max. (mm)										
	H	J	H	J	P	R	S	T	U	JO	HW	JW	X
203W301-25-0	10	10	5.8	2.2	29	21	3	0.5	-	4.5	0.8	0.5	-
203W301-25-G02-0	10	6	5.8	2.2	19	11	1.5	0.5	-	4.5	0.8	0.5	-
202K111-25-01-0	17	17	6.9	3	29	14	1.7	0.9	-	10.8	1.3	0.7	-
202A111-25-G07-0	17	17	7.9	2.2	25	14	3	1	-	6	1	1.7	-
204W221-25-0	11	11	9.3	2.1	19	6.5	-	1.5	0.55	6.6	1.1	0.5	2.4
223W601-25-0	10	6	6.3	2	12.5	11.5	9.8	1.2	0.5	6	1	0.6	3.2
224W221-25-0	11	11	9.3	2.1	12.3	13	11	1.5	0.55	6.6	1	0.5	2.4

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
203W301-25-0	189-1508			
203W301-25-G02-0	189-1511			
202K111-25-01-0	189-1512			
202A111-25-G07-0	189-1513			
204W221-25-0	189-1514			
223W601-25-0	189-1515			
224W221-25-0	189-1516			

ZHTM Heatshrink Tubing



- Material: Crosslinked polyolefin
- Colour: Black
- 2:1 shrink ratio
- Low smoke emission
- System 100 tubing
- Application: Insulation and Protection, Low Smoke Emissions, Wire Protection Sleeve

Mftrs. List No.	Inner Dia. (mm)		Length	Order Code	Price Each		
	Supplied	Recovered			1+	5+	10+
ZHTM-3/1.5-0-SP	3	1.5	60m	189-1517			
ZHTM-5/2.5-0-SP	5	2.5	60m	189-1518			
ZHTM-8/4-0-SP	8	4	60m	189-1519			
ZHTM-12/6-0-SP	12	6	60m	189-1520			
ZHTM-18/9-0-SP	18	9	30m	189-1521			
ZHTM-24/12-0-SP	24	12	30m	189-1523			
ZHTM-34/17-0-SP	34	17	30m	189-1524			
ZHTM-40/20-0-SP	40	20	30m	189-1525			
ZHTM-50/30-0-SP	50	30	15m	189-1526			

HFT5000 Heat Shrinkable Fabric Tubing



Woven from heat shrinkable cross linked circumferential polyolefin filaments and non shrinking polyester fibres. When heated the product shrinks and provides excellent mechanical abrasion protection around substrates such as rubber hoses, plastic pipes and harness wiring systems.

- 2:1 Shrink ratio, grips substrates tightly without need of additional fixings
- Highly flexible, ideal for use on awkward substrates such as bent hoses
- Exceptional abrasion and cut through resistance over a wide temperature range
- Resistant to fuels, oils, water, steam and other common fluids
- Can be cut using scissors, does not fray
- Low shrink temperature for safe installation onto heat sensitive substrates
- Temperature rating -40°C to +125°C(3000hrs) -40°C to +150°C(1000hrs)

Mfrs. List No.	Inside Diameter (mm)	Maximum Recovered After Heating (mm)	Order Code
HFT5000-12/6-0-FEC-10M	12	6	496-7239
HFT5000-20/10-0-FEC-10M	20	10	496-7240
			374255.406042
Price Each			
Order Code	1+		5+
496-7239			
496-7240			

CRN Flame Retardant - 2:1 Shrink Ratio

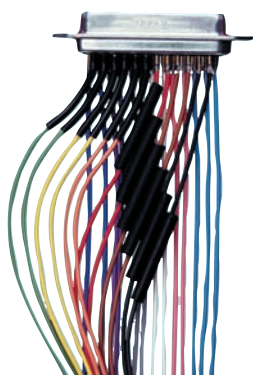


- Semi-rigid, flame retardant Black polyolefin tubing
- Ideal for wire strain relief applications such as soldered or crimp connections, wire splices and terminations
- Provides high abrasion resistance and mechanical protection for delicate components
- Outstanding physical and electrical performance
- Excellent chemical and solvent resistance properties
- 2:1 shrink ratio
- MIL-DTL-23053/6, Class 1 and Def. Stan. 59-97 Issue 3 Type 2C approved
- Minimum shrink temperature +110°C
- Operating temperature -55°C to +135°C
- UL (E35586), CSA (LR31929) recognised

227244

Dia. (mm)		Order Code		Price Per Length			
Nom.	Shrunk	Mfrs. List No.		1+	5+	10+	25+
1.2	0.6	CRN-3/64-0-STK	121-0532				
1.6	0.8	CRN-1/16-0-STK	121-0533				
2.4	1.2	CRN-3/32-0-STK	121-0534				
3.2	1.6	CRN-1/8-0-STK	121-0535				
6.4	3.2	CRN-1/4-0-STK	121-0537				

RW-175 High Temperature Tubing

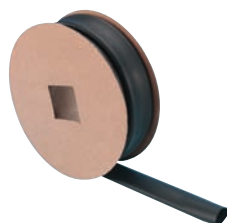


- High Temperature, chemical-resistant polyvinylidene fluoride tubing
- Ideally suited for applications requiring high-temperature performance, outstanding abrasion resistance and cut-through resistance, or superior chemical and solvent properties
- Provides electrical insulation and strain relief of multi-pin connectors and solder joints
- Ideal for applications that require dense packing of components or visual inspection of covered components
- 2:1 shrink ratio
- Tough, semi rigid, very thin wall insulation
- High flame-resistance, meeting the requirements of AMS-DTL 23053, Test C, with UL (VW-1) and CSA (OFT) rating

338601

Size	Minimum Expanded	Maximum Recovered After Heating	Recovered Wall Thickness After Heating	Price Each	
3/64"	1.2mm (0.046")	0.6mm (0.023")	0.25mm±0.05 (0.010"±0.002)	1+	5+
				496-6594	

DR-25 Diesel Resistant - 2:1 Shrink Ratio



- Flexible, Black elastomer tubing
- Resistant to aviation and diesel fuels, hydraulic fluids and lubricating oils
- Ideal for use where a rugged, fluid resistant tube is necessary
- Long-term fluid and heat resistance
- Protects against abrasion and mechanical damage
- 2:1 shrink ratio
- MIL-DTL-23053/16 (except 1/8 and 3/16), VG 95343 Part 5 Type D, BS 3G-198 Part 3 10A and Def. Stan. 59-97 Issue 3 Type 6B approved
- Minimum full recovery temperature +175°C
- Operating temperature -75°C to +150°C

Mfrs. List No.	Nom. (mm)	Dia. Shrunk (mm)	Spool Length	Order Code
DR-25-1/8-0	3.2	1.6	10m	341-5478
DR-25-3/16-0	4.8	2.4	10m	341-5480
DR-25-1/4-0	6.4	3.2	10m	341-5491
DR-25-3/8-0	9.5	4.8	10m	341-5508
DR-25-1/2-0	12.7	6.4	7m	341-5510
DR-25-3/4-0	19.1	9.5	5m	341-5521
DR-25-1-0	25.4	12.7	4m	341-5533

227247

Mfrs. List No.	Order Code	1+	5+	10+	25+	50+
DR-25-1/8-0	341-5478					
DR-25-3/16-0	341-5480					
DR-25-1/4-0	341-5491					
DR-25-3/8-0	341-5508					
DR-25-1/2-0	341-5510					
DR-25-3/4-0	341-5521					
DR-25-1-0	341-5533					

HIS-3 Heat Shrink



3:1 Shrink Ratio



Thin walled and flexible polyolefin heat shrink tubing with a shrink ratio of 3:1. The UL-listed HIS-3 tubing is used for general electric insulation and mechanical protection. Available in a range of different colours in 200mm lengths. Mixed colour packs include Black, Brown, Grey, Blue and Green/Yellow in 250mm lengths.

540742

Mfrs. List No.	Dia. (mm)	Pack	Price Per Pack
1+	10+	25+	
HIS-3 1.5/0.5 BLK	1.5 0.5	Black 10	173-5235
HIS-3 1.5/0.5 RED	1.5 0.5	Red 10	183-8421
HIS-3 1.5/0.5 BLU	1.5 0.5	Blue 10	183-8422
HIS-3 1.5/0.5 GRY	1.5 0.5	Grey 10	183-8423
HIS-3 1.5/0.5 BRN	1.5 0.5	Brown 10	183-8424
HIS-3 1.5/0.5 CLR	1.5 0.5	Clear 10	183-8425
HIS-3 1.5/0.5 G/Y	1.5 0.5	Green / Yellow 10	183-8426
HIS-3 3/1 BLK	3 1	Black 10	173-5236
HIS-3 3/1 RED	3 1	Red 10	183-8427
HIS-3 3/1 BLU	3 1	Blue 10	183-8429
HIS-3 3/1 GRY	3 1	Grey 10	183-8431
HIS-3 3/1 BRN	3 1	Brown 10	183-8432
HIS-3 3/1 CLR	3 1	Clear 10	183-8433
HIS-3 3/1 G/Y	3 1	Green / Yellow 10	183-8434
HIS-3 6/2 BLK	6 2	Black 10	173-5237
HIS-3 6/2 RED	6 2	Red 10	183-8435
HIS-3 6/2 BLU	6 2	Blue 10	183-8436
HIS-3 6/2 GRY	6 2	Grey 10	183-8437
HIS-3 6/2 BRN	6 2	Brown 10	183-8438
HIS-3 6/2 CLR	6 2	Clear 10	183-8439
HIS-3 6/2 MIX	6 2	Mixed Pack 15	183-8418
HIS-3 12/4 BLK	12 4	Black 10	173-5239
HIS-3 12/4 RED	12 4	Red 10	183-8440
HIS-3 12/4 BLU	12 4	Blue 10	183-8442
HIS-3 12/4 GRY	12 4	Grey 10	183-8443
HIS-3 12/4 BRN	12 4	Brown 10	183-8444
HIS-3 12/4 CLR	12 4	Clear 10	183-8445
HIS-3 12/4 MIX	12 4	Mixed Pack 15	183-8419
HIS-3 40/13 MIX	40 13	Mixed Pack 10	183-8420

3:1 Shrink Ratio



- Black UL224 recognised MIL-1-23053/5, 3:1 heat shrink when heated to 100°C
- Resistant to fuel, oils, hydraulic fluid

Dielectric strength 20kV/mm min.
Operating temperature -55°C to +135°C

208008

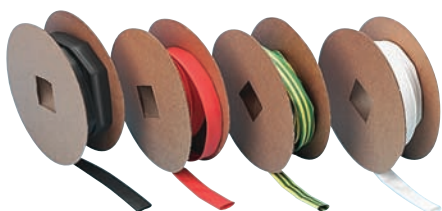
Dia (mm)	Nom.	Shrunk	Order Code	Price Per Length					
Black 1.2 Length				1+	5+	10+	25+	50+	100+
1.5	0.5		119-1009						
3	1		119-1010						
4.5	1.5		119-1011						
6	2		119-1012						
9	3		119-1014						
12	4		119-1015						
18	6		119-1016						
24	8		119-1017						
39	13		119-1018						
Black 5m Coils				1+	5+	10+	25+	50+	100+
1.5	0.5		119-1021						
3	1		119-1022						
4.5	1.5		119-1023						
6	2		119-1024						

Heat Shrink Tubing - continued

3:1 Shrink Ratio - continued

Dia (mm) Nom.	Shrunk	Order Code	Price Per Length					
			1+	5+	10+	25+	50+	100+
Black 1.2 Length								
9	3	119-1025						
12	4	119-1026						
18	6	119-1027						
24	8	119-1028						
39	13	119-1029						

General Purpose Mini-Spools-3:1 Shrink Ratio



- Flexible coloured polyolefin tubing
- Good chemical and solvent resistance
- Excellent physical and electrical properties
- Wide range of colours, including Green/Yellow Earth stripe
- Supplied on cardboard Mini-Spools
- 3:1 shrink ratio
- Flame retardant
- Minimum shrink temperature 80°C
- Operating temperature -40°C to +135°C

208297

Mini-Spools Dia. (mm) Nom.	Spool Length Shrunk (m)	Order Code	Price Per Spool					
			1+	5+	10+	25+	50+	100+
Black								
3	1	10	121-0467					
6	2	7	121-0468					
9	3	5	121-0469					
12	4	4	121-0470					
18	6	3	121-0471					
24	8	3	121-0472					
Red								
3	1	10	121-0473					
6	2	7	121-0474					
9	3	5	121-0475					
18	6	3	121-0478					
24	8	3	121-0479					
Yellow								
3	1	10	121-0480					
6	2	7	121-0481					
9	3	5	121-0482					
12	4	4	121-0483					
18	6	3	121-0484					
24	8	3	121-0485					
Green								
3	1	10	121-0486					
6	2	7	121-0487					
12	4	4	121-0491					
18	6	3	121-0492					
Blue								
3	1	10	121-0493					
6	2	7	121-0494					
9	3	5	121-0495					
12	4	4	121-0496					
18	6	3	121-0497					
White								
3	1	10	121-0499					
6	2	7	121-0500					
9	3	5	121-0501					
12	4	4	121-0502					
18	6	3	121-0503					
24	8	3	121-0504					
Clear								
3	1	10	304-6527					
6	2	7	304-6539					
9	3	5	304-6540					
12	4	4	304-6552					
18	6	3	304-6564					
24	8	3	304-6576					

Mini-Spools Dia. (mm) Nom.	Spool Length Shrunk (m)	Order Code	Price Per Spool					
			1+	5+	10+	25+	50+	100+
Green/Yellow Earth								
3	1	10	121-0505					
9	3	5	121-0508					
12	4	4	121-0509					
18	6	3	121-0510					

HIS-A



HIS-A is a thin-walled, flexible heat shrink sleeving with hot-melt internal adhesive. In addition to electrical insulation, it also provides excellent protection against humidity.

Technical Data:

Material: Polyolefin, radiation cross linked (PEX) with interior adhesive
 Colour: Black
 Shrink factor: 3:1
 Shrink temperature: 120°C min.
 Temperature range: -55°C to +110°C

Item No.	Mftrs. List No.	Extent of supply Inside Ø mm min.	Dimensions when fully shrink-fitted Inside Ø mm max. Wall thickness mm nom.		Contents m
308-10300	HIS-A-3/1-BK	3	1	1.0	10
308-10600	HIS-A-6/2-BK	6	2	1.2	5
308-10900	HIS-A-9/3-BK	9	3	1.3	5
308-11200	HIS-A-12/4-BK	12	4	1.4	5
308-12400	HIS-A-24/8-BK	24	8	2.5	3

334431

Mftrs List No.	Order Code	Price Each			
		1+	5+	10+	10+
308-10300	474-2801				
308-10600	474-2813				
308-10900	474-2825				
308-11200	474-2837				
308-12400	474-2849				

CGAT Adhesive Lined Polyolefin Heat Shrinkable Tubing



- High strength bonding
- Moisture proof
- Environmental sealing
- 3:1 Shrink ratio
- Minimum shrink temperature: +80°C
- Operating temperature range: -30 to +80°C
- Supplied in Rayspool® dispenser boxes
- Kit available consisting of 3,6,9,12,18 & 24mm boxes plus dispenser rack

Nominal Diameter	Shrunk	Length	Order Code
3.0mm	1.0mm	5m	121-0593
6.0mm	2.0mm	3.5m	121-0594
9.0mm	3.0mm	3.0m	121-0595
12.0mm	4.0mm	2.5m	121-0596
18.0mm	6.0mm	2m	121-0597
24.0mm	8.0mm	1.5m	121-0598
Kit			121-0599

338925

	Order Code	Price Each	
		1+	5+
CGAT-R-3/1-0	121-0593		
CGAT-R-6/2-0	121-0594		
CGAT-R-9/3-0	121-0595		
CGAT-R-12/4-0	121-0596		
CGAT-R-18/6-0	121-0597		
CGAT-R-24/8-0	121-0598		
CGAT-R-KIT-1	121-0599		



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RNF-100 — 2:1 Shrink Ratio



- Flexible coloured polyolefin tubing
- Available in 1.2m lengths and bulk spools (Black only)
- Conforms to irregular shapes
- Excellent physical, chemical and electrical properties
- Wide range of colours and sizes
- 2:1 shrink ratio
- Flame retardant (except Clear)
- MIL-DTL-23053/5 Class 1&2, VG95353 Part 5B and DEF-STAN 59-97 Type 2B approved
- Minimum shrink temperature +95°C
- Operating temperature -55°C to +135°C
- UL (E35586), CSA (LR31929) recognised

208301.343067

1.2m Lengths

Dia. (mm)	Mftrs.	Order Code	1+	5+	10+	25+
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Black

1.2	0.6	RNF-100-3/64-0-STK	121-0347	●		
1.6	0.8	RNF-100-1/16-0-STK	121-0349	●		
2.4	1.2	RNF-100-3/32-0-STK	121-0351	●		
3.2	1.6	RNF-100-1/8-0-STK	121-0352	●		
4.8	2.4	RNF-100-3/16-0-STK	121-0353	●		
6.4	3.2	RNF-100-1/4-0-STK	121-0354	●		
9.5	4.8	RNF-100-3/8-0-STK	121-0355	●		
12.7	6.4	RNF-100-1/2-0-STK	121-0356	●		
19	9.5	RNF-100-3/4-0-STK	121-0357	●		
25.4	12.7	RNF-100-1-0-STK	121-0358	●		
38	19	RNF-100-1-1/2-0-STK	121-0359	●		
51	25.4	RNF-100-2-0-STK	121-0360	●		
76	38	RNF-100-3-0-STK	121-0362	●		
102	51	RNF-100-4-0-STK	121-0363	●		

Red

1.2	0.6	RNF-100-3/64-2-STK	121-0364	●		
1.6	0.8	RNF-100-1/16-2-STK	121-0365	●		
2.4	1.2	RNF-100-3/32-2-STK	121-0366	●		
3.2	1.6	RNF-100-1/8-2-STK	121-0367	●		
4.8	2.4	RNF-100-3/16-2-STK	121-0368	●		
6.4	3.2	RNF-100-1/4-2-STK	121-0369	●		
9.5	4.8	RNF-100-3/8-2-STK	121-0370	●		
12.7	6.4	RNF-100-1/2-2-STK	121-0371	●		
19	9.5	RNF-100-3/4-2-STK	121-0372	●		
25.4	12.7	RNF-100-1-2-STK	121-0374	●		

Yellow

1.2	0.6	RNF-100-3/64-4-STK	121-0379	●		
1.6	0.8	RNF-100-1/16-4-STK	121-0380	●		
2.4	1.2	RNF-100-3/32-4-STK	121-0381	●		
3.2	1.6	RNF-100-1/8-4-STK	121-0382	●		
4.8	2.4	RNF-100-3/16-4-STK	121-0383	●		
6.4	3.2	RNF-100-1/4-4-STK	121-0384	●		
9.5	4.8	RNF-100-3/8-4-STK	121-0386	●		
12.7	6.4	RNF-100-1/2-4-STK	121-0387	●		
25.4	12.7	RNF-100-1-4-STK	121-0389	●		
38	19	RNF-100-1-1/2-4-STK	121-0390	●		

Green

3.2	1.6	RNF-100-1/8-5-STK	121-0393	●		
6.4	3.2	RNF-100-1/4-5-STK	121-0395	●		

Blue

1.6	0.8	RNF-100-1/16-6-STK	121-0404	●		
2.4	1.2	RNF-100-3/32-6-STK	121-0405	●		
3.2	1.6	RNF-100-1/8-6-STK	121-0406	●		
4.8	2.4	RNF-100-3/16-6-STK	121-0408	●		
6.4	3.2	RNF-100-1/4-6-STK	121-0410	●		
9.5	4.8	RNF-100-3/8-6-STK	121-0411	●		
19	9.5	RNF-100-3/4-6-STK	121-0413	●		
25.4	12.7	RNF-100-1-6-STK	121-0414	●		

White

1.6	0.8	RNF-100-1/16-9-STK	121-0417	●		
2.4	1.2	RNF-100-3/32-9-STK	121-0418	●		
3.2	1.6	RNF-100-1/8-9-STK	121-0419	●		
4.8	2.4	RNF-100-3/16-9-STK	121-0420	●		
6.4	3.2	RNF-100-1/4-9-STK	121-0421	●		
9.5	4.8	RNF-100-3/8-9-STK	121-0422	●		
12.7	6.4	RNF-100-1/2-9-STK	121-0423	●		
19	9.5	RNF-100-3/4-9-STK	121-0424	●		
25.4	12.7	RNF-100-1-9-STK	121-0425	●		
38	19	RNF-100-1-1/2-9-STK	121-0426	●		

Clear

1.2	0.6	RNF-100-3/64-X-STK	121-0429	●		
1.6	0.8	RNF-100-1/16-X-STK	121-0430	●		
2.4	1.2	RNF-100-3/32-X-STK	121-0431	●		

1.2m Lengths

Dia. (mm)	Mftrs.	Order Code	1+	5+	10+	25+
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Clear

3.2	1.6	RNF-100-1/8-X-STK	121-0432	●		
4.8	2.4	RNF-100-3/16-X-STK	121-0433	●		
6.4	3.2	RNF-100-1/4-X-STK	121-0434	●		
9.5	4.8	RNF-100-3/8-X-STK	121-0435	●		
12.7	6.4	RNF-100-1/2-X-STK	121-0436	●		
19	9.5	RNF-100-3/4-X-STK	121-0437	●		
25.4	12.7	RNF-100-1-X-STK	121-0438	●		
38	19	RNF-100-1-1/2-X-STK	121-0441	●		
51	25.4	RNF-100-2-X-STK	121-0442	●		

Dia. (mm)	Mftrs.	Order Code	1+	2+	10+	50+
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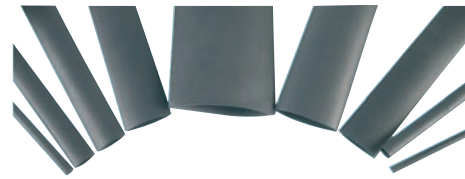
Black

3.2	1.6	150m RNF-100-1/8-0-SP	121-0575	●		
4.8	2.4	150m RNF-100-3/16-0-SP	121-0576	●		
6.4	3.2	75m RNF-100-1/4-0-SP	121-0577	●		
9.5	4.8	121m RNF-100-3/8-0-FSP	121-0578	●		
19	9.5	60m RNF-100-3/4-0-FSP	121-0582	●		

Adhesive Lined Heatshrink Sleeving



3:1 Shrink Ratio



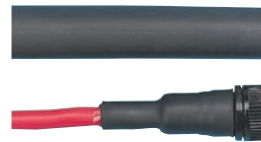
- Adhesive lined Black polyolefin tubing
- Supplied in 1.2m or 10m lengths
- Resistant to moisture

Shrink Temperature 110°C Operating temperature -55°C to 125°C

419339.432343

Dia. (mm)	Shrunk	Length (m)	Order Code	1+	5+
3.2	1	1.2	118-7632	●	
4.8	1.6	1.2	118-7633	●	
6.4	2.2	1.2	118-7634	●	
7.9	2.7	1.2	118-7635	●	
9.5	3.2	1.2	118-7637	●	
12.7	4.2	1.2	118-7638	●	
15	5.2	1.2	118-7639	●	
19.1	6.3	1.2	118-7640	●	
25.4	8.5	1.2	118-7641	●	
30	10.2	1.2	118-7642	●	
39	13.5	1.2	118-7643	●	
50	17	1.2	118-7644	●	
3.2	1	10	101-7298	●	
4.8	1.6	10	101-7300	●	
6.4	2.2	10	101-7301	●	
7.9	2.7	10	101-7302	●	
9.5	3.2	10	101-7303	●	
12.7	4.2	10	101-7304	●	
15	5.2	10	101-7306	●	
19.1	6.3	10	101-7307	●	

Adhesive Lined – 3:1 Shrink Ratio



- Flexible adhesive lined Black polyolefin tubing
- Low-flow adhesive provides environmental sealing in back-end connector, component and wire break-out applications
- Moisture resistant
- High strength bonding
- 3:1 shrink ratio
- Minimum shrink temperature +80°C
- Operating temperature -30°C to +80°C

208296

1.2m Lengths

Dia. (mm)	Shrunk	Order Code	1+	5+	10+	25+	50+
3	1	121-0512	●				
6	2	121-0513	●				
9	3	121-0514	●				
12	4	121-0515	●				
18	6	121-0516	●				
24	8	121-0517	●				
39	13	121-0519	●				

Flame Retardant Heatshrink 3:1



Flexible, flame-retardant, heat-shrinkable polyolefin manufactured to AMS-DTL-23053/5 Class 1 Standard and approved to UL 224 135°C. This tubing has excellent wear-resistant performance. Its high shrink ratio accommodates difficult or irregular shapes. Available in 1.2m or 5m lengths.

Operating Temperature: -55°C to +135°C
Shrink Temperature: 120°C
Shrink Ratio: 3:1
450137.450125

Unshrunk		Order Code	Price Per Length			
Dia.	Length		1+	5+	10+	25+
1.5mm	1.2m	125-9194				
3mm	1.2m	125-9195				
4.5mm	1.2m	125-9196				
6mm	1.2m	125-9197				
9mm	1.2m	125-9198				
12mm	1.2m	125-9199				
18mm	1.2m	125-9200				
24mm	1.2m	125-9201				
39mm	1.2m	125-9202				
1.5mm	5m	125-9203				
3mm	5m	125-9204				
4.5mm	5m	125-9205				
6mm	5m	125-9206				
9mm	5m	125-9207				
12mm	5m	125-9208				
18mm	5m	125-9211				
24mm	5m	125-9212				
39mm	5m	125-9213				

Heatshrink Tubing



TREDUX is a thin wall, flexible tubing with a shrink ratio of 2:1 or 3:1 and is made from crosslinked polyolefin. Available in Black or Green/Yellow that can be used for general electrical insulation and mechanical protection of cables and wires. Supplied in 1m lengths.

Material: Polyolefin, cross-linked (POX)
Shrink Ratio: 3:1 from 1.5 / 0.5 mm to 24 / 8 mm
2:1 from 38.1/19.1 mm to 76.2 / 38.1 mm
Min. Shrink Temperature: 90°C
Operating Temperature: -55°C to 125°C
Dielectric Strength: 20 kV/mm
Flammability: ASTM D2671

Mftrs. List No.	Supplied		Wall Thickness (mm)	Colour
	Dia. (mm)	Dia. (mm)		
TREDUX-1,5/0,5-BK	1.5	0.5	0.5	Black
TREDUX-3/1-BK	3	1	0.6	Black
TREDUX-3/1-GNYE	3	1	0.6	Green / Yellow
TREDUX-6/2-BK	6	2	0.7	Black
TREDUX-12/4-BK	12	4	0.85	Black
TREDUX-12/4-GNYE	12	4	0.85	Green / Yellow
TREDUX-24/8-BK	24	8	1.2	Black
TREDUX-24/8-GNYE	24	8	1.2	Green / Yellow
TREDUX-38,1/19,1-BK	38.1	19.1	1.02	Black
TREDUX-38,1/19,1-GNYE	38.1	19.1	1.02	Green / Yellow
TREDUX-50,8/25,4-BK	50.8	25.4	1.14	Black
TREDUX-76,2/38,1-BK	76.2	38.1	1.27	Black

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
TREDUX-1,5/0,5-BK	182-7086			
TREDUX-3/1-BK	182-7087			
TREDUX-3/1-GNYE	182-7095			
TREDUX-6/2-BK	182-7088			
TREDUX-12/4-BK	182-7089			
TREDUX-12/4-GNYE	182-7096			
TREDUX-24/8-BK	182-7090			
TREDUX-24/8-GNYE	182-7097			
TREDUX-38,1/19,1-BK	182-7092			
TREDUX-38,1/19,1-GNYE	182-7098			
TREDUX-50,8/25,4-BK	182-7093			
TREDUX-76,2/38,1-BK	182-7094			

Low Temperature Heat Shrink Tubing



This low temperature heat shrink tubing is a general purpose, flame-retardant polyolefin tubing with good resistance to common fluids and solvents. This flexible, 2:1 shrink ratio tubing has an excellent physical and electrical performance. The low shrink temperature and good mechanical strength means this tubing is widely used in the electrical, electronics and automotive industries.



- Material: POX (Cross linked polyolefin)
- Colour: Black
- Shrink ratio: 2:1
- Min. shrink temperature: 100°C
- Operating temperature: -55°C to 125°C

Mftrs. List No.	Dia. (mm)		Reel Length (m)	Order Code	Price Per Reel		
	Nom.	Shrunk			1+	5+	10+
TCN20-1,2/0,6-BK	1.2	0.6	300	207-0880			
TCN20-1,6/0,8-BK	1.6	0.8	300	207-0882			
TCN20-2,4/1,2-BK	2.4	1.2	300	207-0883			
TCN20-3,2/1,6-BK	3.2	1.6	300	207-0884			
TCN20-4,8/2,4-BK	4.8	2.4	300	207-0885			
TCN20-6,4/3,2-BK	6.4	3.2	300	207-0886			
TCN20-9,5/4,8-BK	9.5	4.8	100	207-0887			
TCN20-12,7/6,4-BK	12.7	6.4	100	207-0888			
TCN20-19,1/9,5-BK	19.1	9.5	60	207-0889			
TCN20-25,4/12,7-BK	25.4	12.7	60	207-0890			
TCN20-38,1/19,1-BK	38.1	19.1	30	207-0891			
TCN20-50,8/25,4-BK	50.8	25.4	30	207-0892			

Heat Shrink Tubing



Quick and easy shrinking tubing is widely used for insulating, mechanical protection, strain relief, marking, and bundling. The excellent balance of electrical, mechanical and chemical properties meet and exceed industrial standards.



- Material: POX (Cross linked polyolefin)
- Colour: Black
- Shrink ratio: 2:1
- Min. shrink temperature: 90°C
- Operating temperature: -55°C to 135°C

Mftrs. List No.	Dia. (mm)		Reel Length (m)	Order Code	Price Per Reel		
	Nom.	Shrunk			1+	5+	10+
TF21-1,2/0,6-BK	1.2	0.6	300	207-0894			
TF21-1,6/0,8-BK	1.6	0.8	300	207-0895			
TF21-2,4/1,2-BK	2.4	1.2	300	207-0896			
TF21-3,2/1,6-BK	3.2	1.6	300	207-0897			
TF21-4,8/2,4-BK	4.8	2.4	300	207-0898			
TF21-6,4/3,2-BK	6.4	3.2	300	207-0899			
TF21-9,5/4,8-BK	9.5	4.8	150	207-0901			
TF21-12,7/6,4-BK	12.7	6.4	100	207-0902			
TF21-19,1/9,5-BK	19.1	9.5	50	207-0903			
TF21-25,4/12,7-BK	25.4	12.7	50	207-0904			
TF21-38,1/19,1-BK	38.1	19.1	60	207-0905			
TF21-50,8/25,4-BK	50.8	25.4	60	207-0906			
TF21-76,2/38,1-BK	76.2	38.1	60	207-0907			

Heat Shrink Tubing



This tough, very thin walled, and semi-rigid tubing has excellent electrical properties while offering good resistance to chemicals. This tubing is highly flame retardant and UL 224 VW-1 approved.



- Material: PVDF (Polyvinylidene fluoride)
- Colour: Clear
- Shrink ratio: 2:1
- Min. shrink temperature: 175°C
- Operating temperature: -55°C to 175°C

Mftrs. List No.	Dia. (mm)		Reel Length (m)	Order Code	Price Per Reel		
	Nom.	Shrunk			1+	5+	10+
TK20-1,6/0,8-PVDF-CL	1.6	0.8	1.2	207-0908			
TK20-2,4/1,2-PVDF-CL	2.4	1.2	1.2	207-0909			
TK20-3,2/1,6-PVDF-CL	3.2	1.6	1.2	207-0910			
TK20-4,8/2,4-PVDF-CL	4.8	2.4	1.2	207-0912			
TK20-6,4/3,2-PVDF-CL	6.4	3.2	1.2	207-0913			
TK20-9,5/4,8-PVDF-CL	9.5	4.8	1.2	207-0914			
TK20-12,7/6,4-PVDF	12.7	6.4	1.2	207-0915			
TK20-19,1/9,5-PVDF	19.1	9.5	1.2	207-0916			
TK20-25,4/12,7-PVDF	25.4	12.7	1.2	207-0917			

Heatshrink End Caps

HellermannTyton



The PEC series of heatshrink end caps can be applied fast and easy like a standard heat shrink tube. The inner adhesive layer and the adhesive plug provide a good and secure water protection. The optimal shrink ratio of 3:1 and different diameters allow a wide range of applications. Pinched end caps can be used for mechanical

NEW

and environmental protection of stub splices in electrical harnesses. Due to the fast and easy installation, these caps can be used for non-electrical applications as well.

- Material: POX (cross linked polyolefin)
- Shrink ratio: 3:1
- Colour: Black
- Min. shrink temperature: 120°C

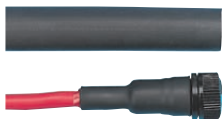
Mftrs. List No.	Supplied Dia. (mm)	Recovered Dia. (mm)	Wall Thickness (mm)	Internal Length (mm)	External Length (mm)
PEC-3/1-PEX-BK-L1	3	1	1	20	25
PEC-4.8/1.5-PEX-BK-L	4.8	1.5	1	25	30
PEC-6/2-PEX-BK-L1	6	2	1	25	30
PEC-9/3-PEX-BK-L1	9	3	1.4	27	35

Mftrs. List No.	Pack Qty	Order Code	Price Per Pack
PEC-3/1-PEX-BK-L1	50	207-0785	
PEC-4.8/1.5-PEX-BK-L	50	207-0786	
PEC-6/2-PEX-BK-L1	50	207-0787	
PEC-9/3-PEX-BK-L1	50	207-0788	

ATUM Adhesive Lined

Tyco Electronics

3:1 Shrink Ratio



- Semi-flexible adhesive lined Black polyolefin tubing
- Adhesive lining provides high strength bonding to wide range of substrates
- Good mechanical and solvent resistance
- 3:1 shrink ratio
- MIL-DTL-23053/4 Class 3 approved
- Minimum shrink temperature +80°C

- Operating temperature -55°C to +110°C

208299

1.2m Lengths

Nom. Dia. (mm)	Shrunk Dia. (mm)	Mftrs. List No.	Order Code	Price Per Length
3	1	ATUM-3/1-0-STK	121-0459	
6	2	ATUM-6/2-0-STK	121-0460	
9	3	ATUM-9/3-0-STK	121-0461	
12	4	ATUM-12/4-0-STK	121-0462	
19	6	ATUM-19/6-0-STK	121-0463	
24	8	ATUM-24/8-0-STK	121-0465	
40	13	ATUM-40/13-0-STK	121-0466	

BSTS Thick Wall Tubing

Tyco Electronics



- Black, thick wall, rugged polymer tubing
- Moisture, fungus and weather resistant
- Excellent electrical properties
- For use where insulation, abrasion resistance and strain relief are required
- Up to 3:1 shrink ratio
- ABS, DNV and Lloyds approved
- Minimum shrink temperature +90°C
- Minimum full recovery temperature +121°C
- Operating temperature -55°C to +90°C

Mftrs. List Nos:	BSTS-04X4	121-0551	BSTS-07X4	121-0552	BSTS-17X4	121-0553	BSTS-45X4	121-0556

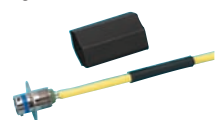
227245

Nom. Dia. (mm)	Shrunk Dia. (mm)	Nom. Wall Thick	Order Code	Price Per Length
10.2	3.9	1.5	121-0551	
19.1	5.6	2.4	121-0552	
43.2	12.7	3	121-0553	
114.3	44.5	3.9	121-0556	

HSR-FR Semi-Rigid

Tyco Electronics

High Shrink Ratio



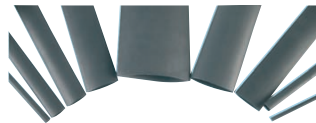
- Black, semi-rigid tubing
- High expansion ratio designed to accommodate large size differences
- Tough and durable
- Offers excellent insulation and abrasion protection
- Flame retardant
- 5.6:1 shrink ratio
- ABS, DNV and Lloyds approved
- Minimum shrink temperature +120°C

- Operating temperature -55°C to +90°C
- Supplied in 250mm lengths

624049

Dia. (mm)	Mftrs. List No.	Order Code	Price Each
15.3	3.9 HRSR-060FR-10	121-0538	1+ 5+ 10+ 25+ 50+
31.8	6.1 HRSR-125FR-10	121-0539	
44.5	8 HRSR-175FR-10	121-0540	

SPC pro-POWER



This is a flexible, flame retarded heat-shrinkable polyolefin tubing, with a shrink ratio of 4 : 1 with a thick wall adhesive which melts and flows, to seal components contained within. Recommended for applications requiring water-proofing for light cable and

wire harnesses and protection of connector components.

- Operating Temperature -55°C to 125°C
- Shrink Temperature 110°C

Inside Dia. Unshrunk (mm)	Inside Dia. Shrunk (mm)	Wall Thickness Shrunk (mm)	Order Code	Inside Dia. Unshrunk (mm)	Inside Dia. Shrunk (mm)	Wall Thickness Shrunk (mm)	Order Code
4	1	1	125-6844	32	8	2.4	125-6851
6	1.5	1.1	125-6845	52	13	2.4	125-6852
8	2	1.2	125-6846	4	1	1	125-6854
12	3	1.4	125-6847	6	1.5	1.1	125-6855
16	4	1.7	125-6848	8	2	1.2	125-6856
20	5	2	125-6849	12	3	1.4	125-6857
24	6	2.1	125-6850				

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Length (m)	Order Code	Price Each
1.2	125-6844	1+ 5+
1.2	125-6845	
1.2	125-6846	
1.2	125-6847	
1.2	125-6848	
1.2	125-6849	
1.2	125-6850	
1.2	125-6851	
1.2	125-6852	
5	125-6854	
5	125-6855	
5	125-6856	
5	125-6857	

High Temperature PTFE - 4:1 Shrink Ratio

SPC pro-POWER



- Natural translucent PTFE 4:1 heat shrink tubing to MIL-1-23053/12, AMS3584 when heated to 327°C

Dielectric strength 1400V/min. (35kV/mm) min.
Operating temperature -67°C to +250°C

- Non-flammable to ASTM D876
- Ideal for covering rollers, heaters, probes, high temperature terminals etc.
- Good electrical, high temperature, chemical and corrosion

208009

1.2 Lengths Dia. (mm)	Order Code	Price Per Length
Nom. Shrunk		
2 0.5	119-1030	1+ 5+ 10+ 25+ 50+ 100+
3.2 0.8	119-1031	
4.8 1.2	119-1033	
6.4 1.3	119-1034	
9.5 2.4	119-1035	
12.7 3.2	119-1036	
19 4.8	119-1037	
25.4 6.3	119-1038	

Clear Adhesive Lined - 4:1 Shrink Ratio

SPC pro-POWER



- Excellent mechanical and abrasion resistance
- Good bonding to a wide range of substrates
- Good clarity
- 4:1 shrink ratio
- Minimum shrink temperature +100°C

- Operating temperature -55°C to +75°C

208295

1.2m Lengths Dia. (mm)	Order Code	Price Per Length
Nom. Shrunk		
4 1	121-0521	1+ 5+ 10+ 25+ 50+
8 2	121-0522	
12 3	121-0523	
16 4	304-7313	

Heat Shrink Tubing - continued

Shrinkhoop Cable Clamp Heat-Shrink Grommet



- Ultra High ratio heat-shrinkable relief grommet that can be placed over the cable assembly after the connector pin
- Reduced assembly time
- Superior strain relief
- Rework made easier
- Re-expandable I.D allows wire addition to a cable bundle
- No build-up taping or feeding wire through a grommet
- Operating temperature: -55°C to 135°C

Inner Diameter Expanded, Minimum	Inner Diameter Recovered, Maximum	Outer Diameter	Supplier Part Number
25mm (1.00")	2.1mm (0.08")	6.0mm (0.25")	URHR-1-0
31mm (1.23")	2.6mm (0.10")	10mm (0.375")	URHR-2-0
37mm (1.44")	3.6mm (0.14")	13mm (0.50")	URHR-3-0
47mm (1.85")	4.7mm (0.18")	14mm (0.562")	URHR-4-0
51mm (2.00")	5.1mm (0.20")	21mm (0.812")	URHR-5-0

338613

Price Each

Supplier No.	Order Code	1+	5+
URHR-1-0	496-6831		
URHR-2-0	496-6843		
URHR-3-0	496-6855		
URHR-4-0	496-6867		
URHR-5-0	496-6879		

HA67 Adhesive Lined Heat Shrink



6:1 Shrink Ratio



An adhesive lined cross linked heavy wall, heatshrink, polyolefin tubing with a shrink ratio of up to 6:1. With an operating temperature range of -55°C to + 80°C. The toughness and weatherability of the tubing makes it well suited to exposed applications for protection of cable joints. Ideal for application across extremes of cable diameters, connectors or components.

540651

Mftrs.	Di. (mm)	Wall	Price Each
List No.	Nom.	Shrunk	Thickness (mm)
HA67-19.0-3.2	19	3.2	3.2
HA67-33.0-5.5	33	5.5	3.4
HA67-44.4-7.4	44.4	7.4	3.6
HA67-50.8-8.3	50.8	8.3	4.3
HA67-69.8-11.7	69.8	11.7	4.8
HA67-88.9-17.1	88.9	17.1	4.8
HA67-119.4-22.9	119.4	22.9	4.8

Heat Shrink Tube Kits



- Comprehensive heat shrink tubing kit, various lengths
- Shrink ratio 2:1 except adhesive lined 3:1, when heated to between 136°C and 300°C

Kit No. 1 - Assorted Black, Clear and Red, containing the following:

Nom. Dia. (mm)	Shrunk Dia. (mm)	Quantity
2.4 to 9.5	1.2 to 4.7	400

Kit No. 3 - Assorted Red, Blue, Yellow and Clear, containing the following:

Nom. Dia. (mm)	Shrunk Dia. (mm)	Quantity
2.4 to 9.5	1.2 to 4.7	340

Kit No. 4 - Black, adhesive lined, containing the following:

Nom. Dia. (mm)	Shrunk Dia. (mm)	Quantity
3.2 to 25.4	1.4 to 8.4	92

544392

Price Each

Description	Order Code	1+
Kit No. 1	119-1039	
Kit No. 3	119-1040	
Kit No. 4	119-1041	

Low Shrink Temperature Kit



- Kit contains a range of Black low shrink temperature tubing
- 2:1 shrink ratio
- Flexible
- Rapid recovery at low temperature, 65°C
- Excellent physical and electrical performance
- Operating temperature -40°C to +125°C

Nom.	Shrunk	Length (mm)	Qty (pcs)
1.6	0.8	35	30
2.4	1.2	35	25
3.2	1.6	35	20
4.8	2.4	35	20
6.4	3.2	70	16
9.5	4.8	70	8
12.7	6.4	100	8

242859

Order Code

Price Each

1+

121-0574

RNF-100 Mixed Colour Kit



- Kit contains a range of polyolefin RNF-100 tubing
- 2:1 Shrink ratio
- Flexible
- Flame retardant (except clear)
- Rapid recovery at low temperature
- Excellent physical, chemical and electrical performance
- Minimum shrink temperature +95°C
- Operating temperature -55°C to +135°C
- MIL-DTL-23053/5 Class 1&2, VG95353 Part 5B and DEF STAN 59-97 type 2B
- UL (E35586) recognised, CSA (LR31929)

Nom.	Shrunk	Length (mm)	Colour (s)	Qty (pcs)
2.4	1.2	50	Black and White	30+30
3.2	1.6	50	Red and Blue	25+25
3.2	1.6	50	Yellow and Blue	25+25
4.8	2.4	100	Yellow and Blue	20+20
4.8	2.4	50	Clear	40
4.8	2.4	50	Yellow	30
4.8	2.4	200	Yellow and Blue	20+20
6.4	3.2	100	White and Yellow	10+10
6.4	3.2	50	Red and Yellow	15+15
6.4	3.2	50	Black and Yellow	15+15
6.4	3.2	200	Red and Yellow	10+10
6.4	3.2	200	Blue and Black	10+10
9.5	4.8	100	Green/Yellow	10
9.5	4.8	100	Black	10

242860

Price Each

Order Code

1+

2+

10+

50+

121-0585

RNF-100 Black Kit



- Kit contains a range of Black RNF-100 tubing
- 2:1 shrink ratio
- Flexible
- Flame retardant
- Rapid recovery at low temperature
- Excellent physical, chemical and electrical performance
- Operating temperature -55°C to +135°C

Nom.	Shrunk	Length (mm)	Qty (pcs)
1.6	0.8	50	50
2.4	1.2	50	50
3.2	1.6	50	45
4.8	2.4	50	25
6.4	3.2	70	25
9.5	4.8	70	15
12.7	6.4	100	15
19.0	9.5	200	10

242861

Price Each

Order Code

1+

2+

10+

50+

121-0584

Heatshrink Kits 2:1 And 3:1



- Approved to MIL-1-23053/5 and UL224/CSA (E307734)
- Contains 180 heatshrinks
- Sizes range from 3.2mm diameter to 12.7mm diameter

Kit Contents

Unshrunk	Colour	Length (mm)	Qty
3.20mm	Black, Blue, Red, Yellow, White	50	15 of each
4.80mm	Black, Blue, Red, Yellow, White	50	6 of each
9.50mm	Black, Blue, Red, Yellow, White	50	10 of each
12.70mm	Black, Blue, Red, Yellow, White	70	5 of each

Technical Data

Dielectric strength	15kV/mm
Temperature range	-55°C to 110°C
Shrink Temperature	110°C

493299

Kit Ratio	Order Code	1+	3+
2:1 Kit	151-8577		
3:1 Kit	151-8578		

Shrink sleeving kits

ShrinkKit 321



The product line ShrinkKit 321 comprises three attractive and practical hot shrink sleeving kits. With a shrink factor of 3:1 the individual kits cover a wide range of applications with only a few sizes. Finding the required shrink sleeving is very easy, since all of the compartments are clearly labelled with application, cut-off length and contents. The empty case can be used to store nails, screws, etc. The size of

the case can be changed by removing the yellow separation webbing. Refill packs are not available!

ShrinkKit 321 Basic (130-2262)

The handy, small ShrinkKit 321 Basic kit is part of every technician's basic equipment. With its advantageous shrink factor of 3:1 the total range from 1 mm to 20 mm can be covered. The kit contains black universal shrink sleeving in 5 diameters and different lengths.

ShrinkKit 321 Universal (130-2263)

The case contains a wide selection of universal shrink sleeving, clearly arranged by size and colour. With the 5 sleeve sizes included, the total range from 1 mm to 20 mm can be covered. With such a variety of sizes, colours and lengths, ShrinkKit 321 Universal can be used for insulation, bend protection or for colour marking.

ShrinkKit 321-A with internal adhesive (130-2264)

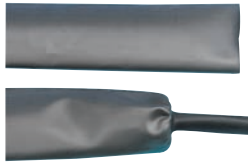
The thin-walled heat shrink sleeving with hot-melt internal adhesive provides humidity and corrosion protection as well as reliable electrical insulation. The transparent sleeving is suitable for permanent protection against loss of identification tags since it remains transparent even after full shrinkage.

The case contains a wide selection of the most commonly used sizes and lengths, clearly set out. The four different sizes are all available in black or transparent.

For full details of specification and contents, see our website.

Mfrs. List no.	Order Code	Price Each		
		1+	3+	5+
ShrinkKit 321 Basic	380-03001	130-2262		
ShrinkKit 321 Universal	380-03002	130-2263		
ShrinkKit 321-A	380-03003	130-2264		

RP-4800 High Shrink – 4:1 Shrink Ratio



- Flexible Black polyolefin tubing
- High expansion ratio
- Good mechanical strength
- 4:1 shrink ratio, 4 sizes cover whole range
- Flame retardant
- MIL-DTL-23053/5 Class 1 and VG95343 Part 5A
- Minimum shrink temperature +95°C
- Operating temperature -55°C to +135°C
- UL (E35586) recognised

Dia. (mm)	Mfrs. List No.	Order Code	Price Per Length				
			1+	5+	10+	25+	50+
25.4	7	RP-4800-NR1-0	121-0455				
50.8	14	RP-4800-NR2-0	121-0456				
76.2	20.6	RP-4800-NR3-0	121-0457				
101.6	26.7	RP-4800-NR4-0	121-0458				

ATUM Adhesive Lined

Red 4:1 Shrink Ratio



- Semi-flexible adhesive lined Red polyolefin tubing
- Adhesive lining provides high strength bonding to wide range of substrates
- Good mechanical and solvent resistance
- 4:1 shrink ratio
- MIL-DTL-23053/4 Class 3 approved
- Minimum shrink temperature +80°C
- Operating temperature -55°C to +110°C

Dia. Nom. Shrink	Mfrs. List No.	Order Code	Price Per Length				
			1+	5+	10+	25+	50+
12	3	ATUM-12/3-2-STK	121-0558				



TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

Heatshrinkable Connector Boots

Helashrink 100 Series



- Straight plug-and-socket connector terminal casing
- Provides protection against environmental stresses
- Inside lip has been designed to provide extra reinforced stress relief.
- Accreditations: VG 95343 Parts 6, 7, 8, 9; DEF STAN 59-97/3

Technical Data:		Technical Data:	
Material / Colour:	Elastomere, Black	Dielectric strength:	16kV/mm
Shrink temperature:	+135°C	Flexibility:	Semi Rigid
Operating temperature - heat stabilised:	-70°C to +150°C	Flamability:	self extinguishing, VG95343

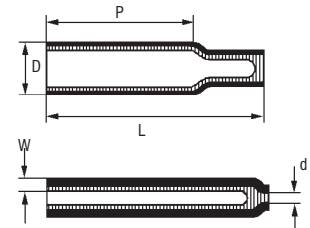
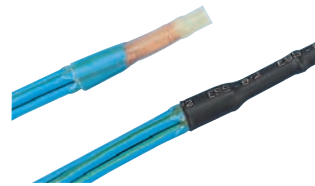
H min a (mm)	H max b (mm)	J min a (mm)	J max b (mm)	P±	R±	Jo±	HW±	JW±	V±	T±	Mfrs. List No.	Order Code
24	10.5	24	6	26	9	10	1.6	0.5	3	1	152-41-G-PEX-BK	107-9557
24	10.5	24	6	38	21	10	1.6	0.5	3	1	152-42-G-PEX-BK	107-9558
25	14	9	3.5	40	13	16	1.8	0.5	3	1	153-41-G-PEX-BK	107-9559
25	14	9	3.5	55	28	16	1.8	0.5	3	1	153-42-G-PEX-BK	107-9560
30	14	30	6	43	20	13	1.8	1	3	1	154-41-G-PEX-BK	107-9561
30	14	30	6	55	32	13	1.8	1	3	1	154-42-G-PEX-BK	107-9562
31	18	31	7	47	15	18	1.8	1	3	1	155-41-G-PEX-BK	107-9563
31	18	31	7	67	35	18	1.8	1	3	1	155-42-G-PEX-BK	107-9564
36	22.5	36	8.5	60	22	20	2.0	1	3	1	156-41-G-PEX-BK	107-9565
36	22.5	36	8.5	80	42	20	2.0	1	3	1	156-42-G-PEX-BK	107-9567
43	28	43	10	60	21	20	2.2	1	3	1.7	157-41-G-PEX-BK	107-9568
43	28	43	10	79	41	20	2.2	1	3	1.7	157-42-G-PEX-BK	107-9569
43	28	43	10	99	61	20	2.2	1	3	1.7	157-43-G-PEX-BK	107-9570
60	35	60	16	90	32	38	3.2	1.5	3	1.7	158-41-G-PEX-BK	107-9571
60	35	60	16	110	52	38	3.2	1.5	3	1.7	158-42-G-PEX-BK	107-9572
60	35	60	16	130	72	38	3.2	1.5	3	1.7	158-43-G-PEX-BK	107-9573
66	45	66	17	130	50	50	3.8	2	3	2	159-41-G-PEX-BK	107-9574
66	45	66	17	171	90	50	3.8	2	3	2	159-43-G-PEX-BK	107-9576

a: Expanded (delivery size); b: Shrank
All dimensions in mm

Standard	Mfrs. List No.	Order Code	1+	5+	10+
VG 95343 T 06 A 001 A	152-41-G-PEX-BK	107-9557			
VG 95343 T 06 B 001 A	152-42-G-PEX-BK	107-9558			
VG 95343 T 06 A 002 A	153-41-G-PEX-BK	107-9559			
VG 95343 T 06 B 002 A	153-42-G-PEX-BK	107-9560			
VG 95343 T 06 A 003 A	154-41-G-PEX-BK	107-9561			
VG 95343 T 06 B 003 A	154-42-G-PEX-BK	107-9562			
VG 95343 T 06 A 004 A	155-41-G-PEX-BK	107-9563			
VG 95343 T 06 B 004 A	155-42-G-PEX-BK	107-9564			
VG 95343 T 06 A 005 A	156-41-G-PEX-BK	107-9565			
VG 95343 T 06 B 005 A	156-42-G-PEX-BK	107-9567			
VG 95343 T 06 A 006 A	157-41-G-PEX-BK	107-9568			
VG 95343 T 06 B 006 A	157-42-G-PEX-BK	107-9569			
VG 95343 T 06 C 006 A	157-43-G-PEX-BK	107-9570			
VG 95343 T 06 A 007 A	158-41-G-PEX-BK	107-9571			
VG 95343 T 06 B 007 A	158-42-G-PEX-BK	107-9572			
VG 95343 T 06 C 007 A	158-43-G-PEX-BK	107-9573			
VG 95343 T 06 A 008 A	159-41-G-PEX-BK	107-9574			
VG 95343 T 06 C 008 A	159-43-G-PEX-BK	107-9576			

Heat Shrink PD End Caps

3:1 Shrink Ratio



- Encapsulates crimped/soldered connections
- Environmentally sealed, electrically insulated semi-rigid outer wall
- Inner wall melts, flows and seals
- High resistance to common chemicals and solvents
- Insulates and seals twice as fast as conventional methods
- Suitable for dead end electrical cables, motor coils, wire termination
- -55°C to +110°C operating temperature

Inside Diameter (D) Expanded as Supplied	(d) Recovered after heating	Length (P) Open Barrel as Supplied	(L) Overall as Supplied	(W) Wall Thickness Recovered after Heating	Mfrs. List No.	Order Code
						3.2
4.8	1.5	15.2	25.4	1.6	PD 3/16-0	769-228
6.4	2.0	15.2	25.4	2.0	PD 1/4-0	769-230
9.5	2.3	18.4	30.5	2.1	PD 3/8-0	769-241

Heat Shrink Tubing - continued



Heat Shrink PD End Caps - continued

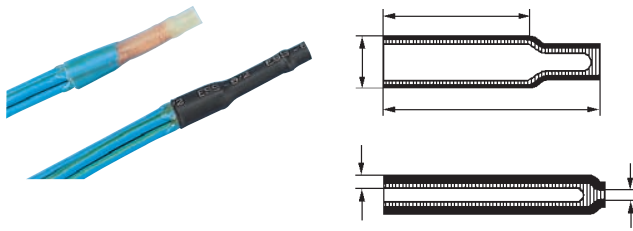
3:1 Shrink Ratio - continued

Mftrs.				Price Each	208177
List No.	Order Code	1+	5+	10+	25+
PD 1/8-0	769-216				
PD 3/16-0	769-228				
PD 1/4-0	769-230				
PD 3/8-0	769-241				

Adhesive Lined Heat Shrink ES End Caps



4:1 Shrink Ratio



- Thick lined adhesive, forms an effective barrier against fluids and moisture
- High shrink ratio of 4:1 allows few sizes to cover a wide range of diameters
- Mechanically tough jacket provides strain relief and abrasion protection
- Operating temperature -40°C to +105°C
- **UL (E85381)** recognised
- Suitable for dead-end electrical cables, motor coils and wire termination

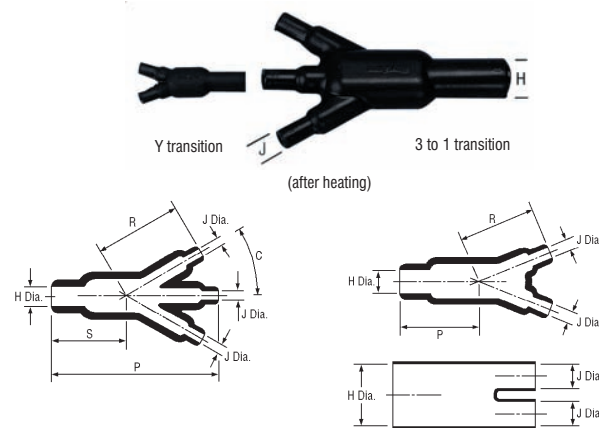
Inside Diameter		Length		(W) Wall Thickness	
(D) Expanded as Supplied	(d) Recovered after heating	(P) Open Barrel as Supplied	(L) Overall as Supplied	Recovered after Heating	
5.7	1.271.27	17	3030.0	1.20	
10.8	2.412.41	23	4040.0	1.91	

Order Code		Price Per Pack			
Clear (X)	Black (O)	1+	5+	10+	25+
134-764	121-0314				
	134-806				
134-788	-				

Heat Shrink Moulded Transitions



2:1 Shrink Ratio



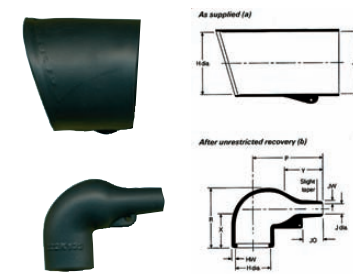
- Provides strain relief sealing and mechanical protection on cable harness assemblies
- -55°C to +135°C operating temperature
- Commercial grade
- Supplied dimensions may change, recovered dimensions will match datasheet

Expanded as supplied (min)	Recovered after heating (max)							Mftrs. List No.	Order Code
	H	J	H	J	P	R	S		
Y Transitions									
13	7	6.1	3.3	22	19			382A012-15-0	769-307
27	13	12.4	6.1	38	43			382A023-15-0	769-319
39	27	18.0	12.4	66	82			382A034-15-0	769-320
3 to 1 transitions									
13	7	6.6	3.6	46	25	21	30	462A011-15-0	769-332
27	13	13.2	6.9	93	50	43	30	462A023-15-0	769-344

Mftrs.				Price Each	208174
List No.	Order Code	1+	100+	250+	500+
382A012-15-0	769-307				
382A023-15-0	769-319				
382A034-15-0	769-320				
462A011-15-0	769-332				
462A023-15-0	769-344				

Heatshrink Boots General Purpose

-25 Material, Right-angled, lipped boot



-25 material heat shrinkable moulded parts are designed to be used in conjunction with other System 25 components providing a complete sealed cable harness system capability. -25 moulded parts have been specifically designed to provide high temperature fluid resistance and long term heat resistance, wherever there is a connector, junction or breakout in a cable harness. Connector versions are available in straight, right-angled and both lipped and non lipped. Transitions are available for forming T junctions, Y pieces, 1 into 3 and 1 into 4 configurations. -25 moulded parts are particularly suitable for providing excellent location, sealing and strain relief when installed with adhesive S1125 at each interface (using S1125 adhesive kit, Order Code: 417-6698).

Typical applications include ruggedized vehicles, aerospace, marine applications, as well as communication, test equipment and high performance commercial and industrial applications.

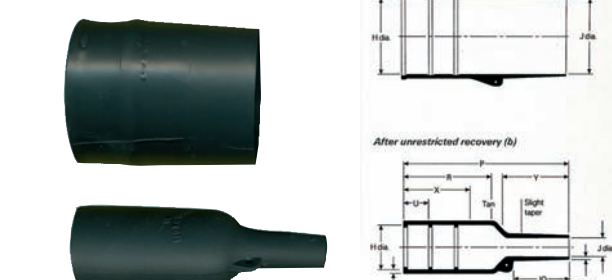
- Excellent chemical and abrasion resistance
- Operating temp range from -75°C to +150°C
- Excellent resistance to high temperature fluids
- Flame retarded
- Resistant to long term exposure to elevated temperatures
- Def Stan 59-97 issue 3 type DE, VG 95343 parts 6,7,8 and 9

As supplied Max. (mm)		After recovery Max. (mm)				Mftrs. List No.		Order Code
H	J	H	J	P	R	222K121-25-0	222K132-25-0	
24	24	10.4	5.6	25.0	25.0	222K121-25-0	222K132-25-0	129-6862
30	30	14.2	5.9	32.0	27.0	222K142-25-0	222K152-25-0	129-6864
31	31	18	7.1	39.0	31.0	222K142-25-0	222K163-25-0	129-6865
36	36	22.4	8.4	46.0	38.0	222K152-25-0		129-6866
43	43	28.2	9.9	55.0	45.0	222K163-25-0		129-6868

Mftrs.				Price Each	449817
List No.	Order Code	1+	10+	50+	100+
222K121-25-0	129-6862				
222K132-25-0	129-6864				
222K142-25-0	129-6865				
222K152-25-0	129-6866				
222K163-25-0	129-6868				

Heatshrink Boots General Purpose

-25 Material Straight, lipped boot

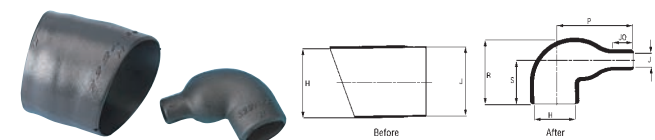


As supplied Min. (mm)		After recovery Max. (mm)				Mftrs. List No.		Order Code
H	J	H	J	P	R	202K111-25-0	202K121-25-0	
17	17	6.9	3	39.0	24.0	202K111-25-0	202K121-25-0	129-6849
24	24	10.4	5.6	38.0	21.0	202K121-25-0	202K132-25-0	129-6850
30	30	14.2	5.9	55.0	32.0	202K132-25-0	202K142-25-0	129-6852
31	31	18	7.1	67.0	35.0	202K142-25-0	202K153-25-0	129-6853
36	36	22.4	8.4	80.0	42.0	202K153-25-0		129-6854
43	43	28.2	9.9	99.0	61.0	202K163-25-0		129-6855

Mftrs.				Price Each	449799
List No.	Order Code	1+	10+	50+	100+
202K111-25-0	129-6849				
202K121-25-0	129-6850				
202K132-25-0	129-6852				
202K142-25-0	129-6853				
202K153-25-0	129-6854				
202K163-25-0	129-6855				

Heat Shrink Connector Boots

-25 Material, Right Angle



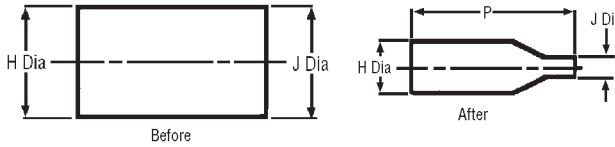
As supplied Max. (mm)		After recovery Max. (mm)						Mfrs. List No.	Order Code
H	J	H	J	P	R	S	JO		
17.8	17.8	7.9	3.8	17.3	20.1	19.1	4.3	222A111-25-0	129-6856
24.9	24.9	10.2	5.3	21.3	22.6	19.1	5.8	222A121-25-0	129-6857
30	30	14.2	6.4	26.9	26.7	19.1	7.1	222A132-25-0	129-6858
32.5	32.5	17.3	6.9	36.6	30.5	19.1	10.2	222A142-25-0	129-6859
36.1	36.1	21.8	8.4	43.7	35.1	19.1	12.7	222A152-25-0	129-6860
43.9	43.9	27.4	9.4	53.6	43.9	19.1	17.3	222A163-25-0	129-6861

449800

Mfrs. List No.	Order Code	1+	10+	50+	100+
222A111-25-0	129-6856				
222A121-25-0	129-6857				
222A132-25-0	129-6858				
222A142-25-0	129-6859				
222A152-25-0	129-6860				
222A163-25-0	129-6861				

Heat Shrink Connector Boots

-25 Material



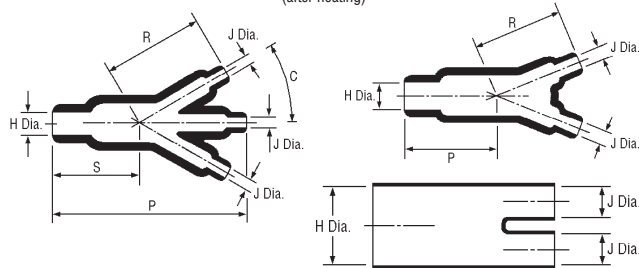
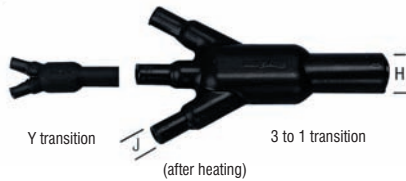
As supplied Min. (mm)		After recovery Max. (mm)		Mfrs. List No.	Order Code
H	J	H	J		
16.5	16.5	7.9	3.8	25.4	202A111-25-0
24.6	24.6	9.9	5.3	38.1	202A121-25-0
28.4	28.4	14.2	6.6	51.3	202A132-25-0
31	31.0	17.8	7.4	66.8	202A142-25-0
36.1	36.1	21.9	8.6	73.7	202A153-25-0
42.7	42.7	27.4	9.4	99.1	202A163-25-0

449806

Mfrs. List No.	Order Code	1+	10+	50+	100+
202A111-25-0	129-6843				
202A121-25-0	129-6844				
202A132-25-0	129-6845				
202A142-25-0	129-6846				
202A153-25-0	129-6847				
202A163-25-0	129-6848				

Heat Shrink Moulded Transitions

-25 Material, 2:1 Shrink Ratio



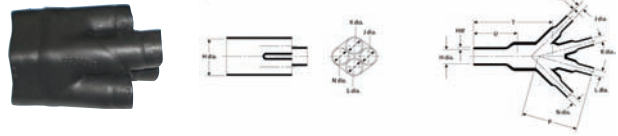
As supplied Min. (mm)		After recovery Max. (mm)				Mfrs. List No.	Order Code
H	J	H	J	P	S		
Y Transitions							
13.2	6.6	6.1	3.3	23.9	-	382A012-25-0	129-6876
26.9	13.2	12.4	6.1	53.3	-	382A023-25-0	129-6877
38.6	26.9	18	12.4	78.7	-	382A034-25-0	129-6878
3 to 1 transitions							
13.2	6.6	6.6	3.6	46.2	30.5	462A011-25-0	129-6879
26.9	13.2	13.2	6.9	93.2	57.2	462A023-25-0	129-6880
38.6	19.3	18.8	9.7	135.1	88.9	462A034-25-0	129-6881

449818

Mfrs. List No.	Order Code	1+	10+	50+	100+
382A012-25-0	129-6876				
382A023-25-0	129-6877				
382A034-25-0	129-6878				
462A011-25-0	129-6879				
462A023-25-0	129-6880				
462A034-25-0	129-6881				

Heat Shrink Moulded Transition

-25 Material, 1 to 4 Cables



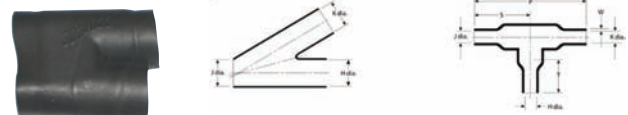
As supplied Min. (mm)		After recovery Max. (mm)				Mfrs. List No.	Order Code
H	J, K, L and N	H	J, K, L and N	T	P		
13.2	6.6	6.9	3.4	43.9	24.1	562A011-25-0	129-6882
19.3	13.2	9.7	6.9	50.5	49.3	562A032-25-0	129-6884

449832

Mfrs. List No.	Order Code	1+	10+	50+	100+
562A011-25-0	129-6882				
562A032-25-0	129-6884				

Heat Shrink Moulded 'T' Transition

-25 Material, 1.8:1 Shrink Ratio



As supplied Min. (mm)		After recovery Max. (mm)				Mfrs. List No.	Order Code
H, J and K		H, J and K	P	S	T		
6.6		3.6	29.7	15.1	10.6	301A011-25-0	129-6869
13.2		6.9	58.7	29.5	17.5	301A022-25-0	129-6870
36.9		13.5	120.1	60.2	35.6	301A034-25-0	129-6871

449830

Mfrs. List No.	Order Code	1+	10+	50+	100+
301A011-25-0	129-6869				
301A022-25-0	129-6870				
301A034-25-0	129-6871				

Heat Shrink Moulded Transition

-25 Material, 45° Side-breakout



As supplied Min. (mm)		After recovery Max. (mm)				Mfrs. List No.	Order Code
H and J	K	H and J	K	P			
13.2	6.6	6.9	3.6	49.3		342A012-25-0	129-6872
26.9	6.6	12.7	3.6	92.5		342A024-25-0	129-6873
26.9	13.2	13.7	6.1	144.8		342A034-25-0	129-6874

449831

Mfrs. List No.	Order Code	1+	10+	50+	100+
342A012-25-0	129-6872				
342A024-25-0	129-6873				
342A034-25-0	129-6874				

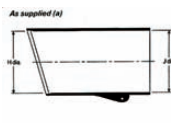
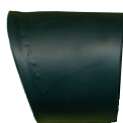
Heat Shrink Tubing - continued



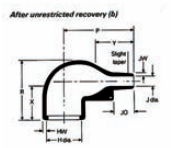
Heatshrink Boots General Purpose



Right-angled, lipped boot



- Semi-rigid flame-retardant Polyolefin
- Provides excellent strain relief
- Repairable
- Good resistance to fluids and heat
- Electric Strength 8MV/m(min)
- Operating temperature -55 °C to 135°C



Order Code	H (a)	H (b)	J (a)	J (b)	P (b)	R (b)
496-6545	30.0	14.2	30.0	5.9	32.0	27.0
496-6557	31.0	18.0	31.0	7.1	39.0	31.0

(a) As supplied, (b) After recovery
all dimensions in millimeters (mm)

381419

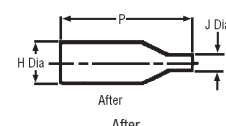
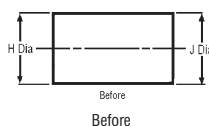
Price Each

Mftrs. List No	Order Code	1+	5+
222K132-3-0	496-6545		
222K142-3-0	496-6557		

Heat Shrink Connector Boots



- Provides mechanical protection and connector-cable strain relief
- No lip provides direct installation onto connector thread
- Flame retardant
- -55°C to +135°C operating temperature



Expanded (min)		Recovered (max)			Mftrs. List No.	Order Code
H	J	H	J	P		
24	24	9.9	5.3	38	202A121-15-0	769-265
28	28	14.2	6.6	51	202A132-15-0	769-277
31	31	17.8	7.4	67	202A142-15-CS-0	769-289
36	36	21.9	8.6	74	202A153-15-0	769-290

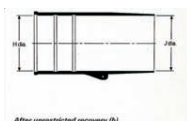
208178

Mftrs. List No.	Order Code	1+	100+	250+	500+
202A121-15-0	769-265				
202A132-15-0	769-277				
202A142-15-CS-0	769-289				
202A153-15-0	769-290				

Heatshrink Boots General Purpose



Straight, lipped boot



- Good resistance to fluids and heat
- Electric Strength 8MV/m(min)
- Operating temperature -55 °C to 135°C

Order Code	H (a)	H (b)	J (a)	J (b)	P (b)	R (b)
496-6478	24.0	10.4	24.0	5.6	38.0	21.0
496-6480	30.0	14.2	30.0	5.9	55.0	32.0
496-6491	31.0	18.0	31.0	7.1	67.0	35.0
496-6510	43.0	28.2	43.0	9.9	99.0	61.0

(a) As supplied, (b) After recovery
all dimensions in millimeters (mm)

374364

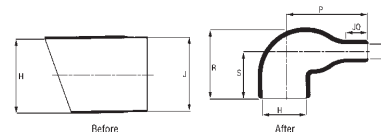
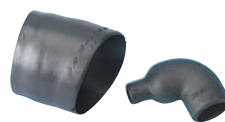
Price Each

Mftrs. List No	Order Code	1+	5+
202K121-3-0	496-6478		
202K132-3-0	496-6480		
202K142-3-0	496-6491		
202K163-3-0	496-6510		

Heat Shrink Connector Boots



Right Angle



Expanded dia (min)		Recovered dia (max)						Mftrs. List No.	Order Code
H	J	H	J	P	R	S	JO		
24	24	10.2	5.3	21	23	17	6	222A121-15-0	121-0320
30	30	14.2	6.4	27	27	19	7	222A132-15-0	134-971
32	32	17.3	6.9	37	31	21	10	222A142-15-0	134-983
36	36	21.8	8.4	44	35	23	13	222A152-15-0	134-995

208271

Mftrs. List No.	Order Code	1+	100+	250+	500+
222A121-15-0	121-0320				
222A132-15-0	134-971				
222A142-15-0	134-983				
222A152-15-0	134-995				

ENC End Caps



Heatshrink adhesive lined end caps are used to seal the ends of plastic, rubber and paper insulated cables, from moisture, dirt and corrosion.

- Resistant to common fluids and chemicals
- Rugged installation
- Seals and protects cable ends (Waterproof)
- Each size covers a wide range of cable sizes

Mftrs. List No.	Application Range	Internal Dia. as supplied	Length after recovery	Wall Thickness after recovery	Order Code
ENC-11/ADH	4 - 8	10	38.0	2.0	121-0588
ENC-22/ADH	8 - 17	20	55.0	2.8	121-0589
ENC-33/ADH	17 - 30	35	90.0	3.2	121-0590
ENC-44/ADH	30 - 45	55	143	3.9	121-0591

all dimensions in millimeters (mm)

374330

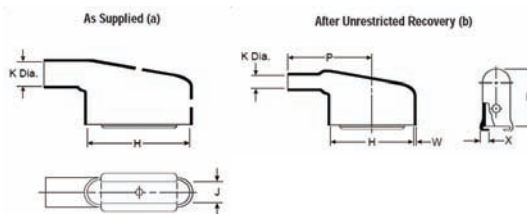
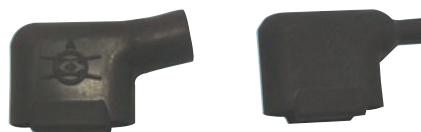
Price Each

Order Code	1+	5+
121-0588		
121-0589		
121-0590		
121-0591		

Heatshrink D-Subminiature



Right-Angled Boot



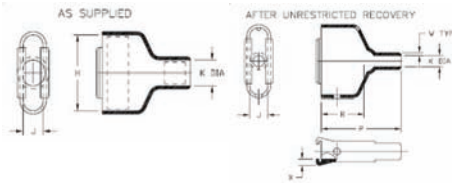
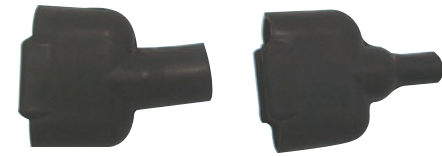
- Provides strain relief and mechanical protection on 90° D-sub miniature connector terminations
- An adhesive seal to the connector and cable entry can be obtained by use of a S1125 adhesive
- -55°C to +135°C operating temperature

Mftrs. List No.	A supplied Min. (mm)			After recovery Max. (mm)				
	H	J	K	H	J	K	P	R
234A011-3-0	20.3	10.7	7.9	20.3	10.7	4.1	25.9	21.6
234A021-3-0	28.2	10.7	10.2	28.2	10.7	5.3	30.7	24.6
234A032-3-0	42.2	10.7	14.0	42.2	10.7	7.4	42.9	27.9

500838

Mftrs. List No.	Order Code	Price Each			
		1+	10+	25+	50+
234A011-3-0	152-6824				
234A021-3-0	152-6825				
234A032-3-0	152-6826				

Heatshrink D-Subminiature Straight Boot



- Provides strain relief and mechanical protection on straight D-sub miniature connector terminations
- An adhesive seal to the connector and cable entry can be obtained by use of a S1125 adhesive
- -55°C to + 135°C operating temperature

Mftrs. List No.	A supplied Min. (mm)			After recovery Max. (mm)				
	H	J	K	H	J	K	P	R
214A011-3-0	20.3	10.7	7.9	20.3	10.7	4.1	33.3	19.1
214A021-3-0	28.2	10.7	10.2	28.2	10.7	5.3	38.9	22.1
214A032-3-0	42.2	10.7	14.0	42.2	10.7	8.1	45.0	25.4

500844

Mftrs. List No.	Order Code	Price Each			
		1+	10+	25+	50+
214A011-3-0	152-6821				
214A021-3-0	152-6822				
214A032-3-0	152-6823				

Coaxial Cable Terminators



SolderSleeve=21 Leads=150

- SolderSleeve™ provides sealed, strain relieved, insulated soldered electrical connection
- Suitable for linking braid and centre of coaxial cables to connector buckets, pins or terminals
- Prevents centre conductor breakage problems
- Supplied in two mating halves with 150mm flying leads attached

624027

Coax Cable Type	Order Code	Price Per Pack			
		1+	5+	10+	25+
RG174	119-6409				

CES™ Heat Shrink Feedthrough Glands



- Three-part assembly: rigid plastic nut, O-ring seal, adhesive-lined moulded area
- Minimum shrink temperature 120°C
- Operating temperature -55°C to +90°C
- Flame retardant
- Fume-tight and water-tight to IPX8 i.e. not tested for solid objects but tested against water pressure to 1.7bar for 30 mins.

- Approvals:
Lloyds (Lloyds Register of Shipping) type approval
ABS (American Bureau of Shipping) type approval
DNV (Det Norske Veritas) type approval

Sleeve inside dia. Nominal (mm)	Shrunk (mm)	Nut outside dia. (mm)	Panel hole dia. (mm)	Mftrs. List No.	Order Code
12.7	4.3	35.8	25.4	CES-1	121-0316
19.1	6.4	35.8	25.4	CES-2	121-0317
28.5	12.7	48.3	35.1	CES-3	121-0318

208278

Sleeve inside dia. Nominal	Shrunk	Order Code	Price Each			
			1+	10+	25+	50+
12.7	4.3	121-0316				
19.1	6.4	121-0317				
28.5	12.7	121-0318				

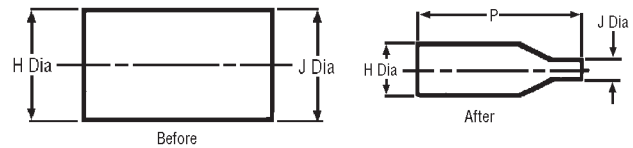
Heatshrink Boots



NEW



Use for mechanical protection and connector/cable strain relief. This family of boots has no lip, so that a boot can be installed directly onto the connector accessory thread.



- Material: Semi rigid modified polyolefin
- Colour: Black
- Min. shrink temperature: 125°C
- Operating temperature: -55°C to 135°C

Mftrs. List No.	As supplied Max. (mm)			After recovery Max. (mm)		
	H	J	P	H	J	P
PP000001	16.5	16.5		7.9	3.8	25.4
PP000002	24.6	24.6		9.9	5.3	38.1
PP000003	28.4	28.4		14.2	6.6	51.3
PP000004	31	31		17.8	7.4	66.8

636944

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
PP000001	189-1438			
PP000002	189-1439			
PP000003	189-1440			
PP000004	189-1441			

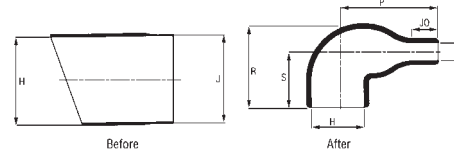
Right Angled Heatshrink Boots



NEW



Use for mechanical protection and connector/cable strain relief. This family of boots has no lip, so that a boot can be installed directly onto the connector accessory thread.



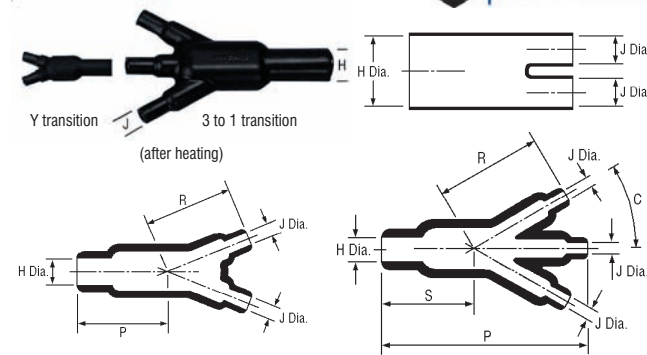
- Material: Semi rigid modified polyolefin
- Colour: Black
- Min. shrink temperature: 125°C
- Operating temperature: -55°C to 135°C

Mftrs. List No.	As supplied Max. (mm)			After recovery Max. (mm)				
	H	J	P	H	J	R	S	JO
PP000005	24.9	24.9	10.2	5.3	21.3	22.6		5.8
PP000006	30	30	14.2	6.4	26.9	26.7	19.1	7.1
PP000007	32.5	32.5	17.3	6.9	36.6	30.5	19.1	10.2
PP000008	36.1	36.1	21.8	8.4	43.7	35.1	19.1	12.7

636947

Mftrs. List No.	Order Code	Price Each		
		1+	5+	10+
PP000005	189-1442			
PP000006	189-1444			
PP000007	189-1445			
PP000008	189-1446			

Heatshrink Moulded Transitions



Provides strain relief and mechanical protection on cable harness assemblies.

- Material: Semi rigid modified polyolefin
- Colour: Black
- Min. shrink temperature: 125°C
- Operating temperature: -55°C to 135°C

NEW

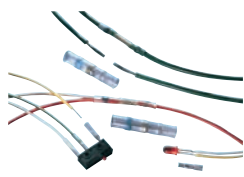
Heatshrink Moulded Transitions - continued

Mfrs. List No.	As supplied Min.(mm)		After recovery Max.(mm)				C
	H	J	H	J	P	S	
Y Transitions							
PP000009	13.2	6.6	6.1	3.3	23.9	-	-
PP000010	26.9	13.2	12.4	6.1	53.3	-	-
PP000011	38.6	26.9	18	12.4	78.7	-	-
3 to 1 transitions							
PP000012	13.2	6.6	6.6	3.6	46.2	30.5	30
PP000013	26.9	13.2	13.2	6.9	93.2	57.2	30

636959

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
PP000009	189-1447			
PP000010	189-1448			
PP000011	189-1449			
PP000012	189-1450			
PP000013	189-1451			

One-Step™ SolderSleeve™ Wire Terminators



Features:-

- Solder ring within a heatsink transparent sealing sleeve
 - Provides One-Step™ electrical termination - Soldered
 - Strain relieved
 - Sealed
 - Compatible with low temperature wires (PVC)
 - One piece design simplifies and speeds installation
- Transparent insulation for quick inspection
 - -55°C to +125°C
 - UL approved

Applications:-

- For soldered electrical terminations
- Repairs solder joints, splicing, automotive harnesses
- Grounding cables to connector shells, panels
- In-line components, resistors, temp. sensors, reed switches
- Strain relief on fragile coaxial cables

● Assembly

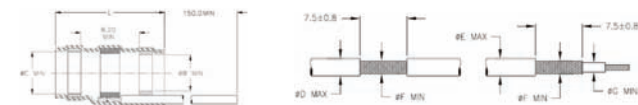
1. Position Soldersleeve™ over wires to be terminated
2. Apply heat using hot air gun
3. Wait until sleeve shrinks, blue sealing insert melts and solder flows
4. Result is a soldered, insulated, sealed, strain relieved, inspectable termination

208169

Soldersleeve Shield Terminators with Lead



NEW



- Insulation material: Fluoropolymer
- Lead length: 150mm
- Lead size: 22AWG
- Operating temperature range: -65°C to 200°C

Application:

- These parts are designed to provide an environment resistant shield termination on cables, rated for 150°C minimum, meeting the dimensional criteria listed, having silver or nickel-plated shields and insulations compatible with the insert material.
- Install using approved convection or infrared heating tools in accordance with Tyco Electronics process standard RCPS-100-71. When installed with approved convection or infrared heating tools, assemblies will meet the performance requirements of SAE AS83519. Infrared tools are not recommended for use with black cable jackets.

Mfrs. List No.	L	ØA	Dimensions (mm)			
			ØB	ØC	ØD	ØE
S200-1-W2-22-9-TC	16.5	1.9	2.67	1.9	2.67	0.9
S200-2-W2-22-9-TC	16.5	2.67	3.68	2.67	3.68	1.4
S200-3-W2-22-9-TC	16.5	4.32	5.08	4.32	5.08	2.15

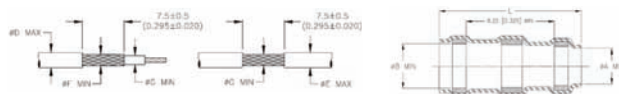
636012

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
S200-1-W2-22-9-TC	189-1456			
S200-2-W2-22-9-TC	189-1457			
S200-3-W2-22-9-TC	189-1458			

Soldersleeve Shield Terminators



NEW



- Insulation material: Polyvinylidene fluoride
- Operating temperature range: -55°C to 150°C

Application:

- These parts are designed to provide an environment resistant shield terminations on cables, rated for 125°C minimum, meeting the dimensional criteria listed, having tin or silver plated shields and insulation compatible with the insert material.
- When installed per Raychem process standard RCPS-100-70, assemblies will meet requirements of Raychem Specification RT-1404 and MIL-S-83519.

Mfrs. List No.	L	ØA	ØB	Dimensions (mm)				
				ØC	ØD	ØE	ØF	ØG
SO63-1-00	16.5	1.9	2.65	8.25	1.9	2.65	0.9	0.5
SO63-2-00	16.5	2.65	3.68	8.25	2.65	3.68	1.4	0.75
SO63-3-00	16.5	4.3	5.08	8.25	4.3	5.08	2.15	1.25
SO63-4-00	19.1	5.95	6.45	8.25	5.95	6.45	3.3	1.8
SO63-5-00	19.1	7	7.6	8.25	7	7.6	4.3	2.5

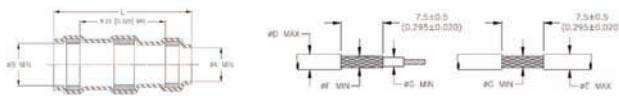
636120

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
SO63-1-00	189-1474			
SO63-2-00	189-1475			
SO63-3-00	189-1476			
SO63-4-00	189-1477			
SO63-5-00	189-1478			

Soldersleeve Shield Terminators



NEW



- Insulation material: Fluoropolymer
- Operating temperature range: -65°C to 200°C

Application:

- These parts are designed to provide an environment resistant shield termination on cables, rated for 150°C minimum, meeting the dimensional criteria listed, having silver or nickel-plated shields and insulations compatible with the insert material.
- Install using approved convection or infrared heating tools in accordance with Tyco Electronics process standard RCPS-100-71. When installed with approved convection or infrared heating tools, assemblies will meet the performance requirements of SAE AS83519.

Mfrs. List No.	L	ØA	Dimensions (mm)			
			ØB	ØC	ØE	ØF
S200-1-00	16.5	1.9	2.67	1.9	2.67	0.9
S200-2-00	16.5	2.67	3.68	2.67	3.68	1.4
S200-3-00	16.5	4.32	5.08	4.32	5.08	2.15

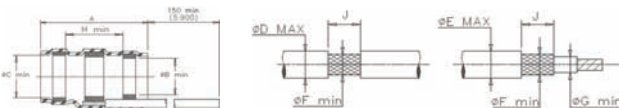
636050

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
S200-1-00	189-1459			
S200-2-00	189-1460			
S200-3-00	189-1461			

Soldersleeve Shield Terminators with Pre-Installed Lead



NEW



- Insulation material: Polyvinylidene fluoride
- Lead length: 150mm
- Lead size: 22AWG
- Operating temperature range: -55°C to 150°C

Application:

- These parts will provide a shield termination assembly which will meet the requirements of MIL-S-83519/2 when installed in accordance with Raychem RCPS-100-70 on cables rated for at least 125°C, meeting the dimensional criteria listed, having tin or silver plated shields.

Mftrs. List No.	A	∅B	∅C	Dimensions (mm)						J
				H	∅E	∅F	∅G	∅D		
SO63-1-55-22-90	16.5	1.9	2.65	8.25	2.65	0.9	0.5	1.9	7.5	
SO63-2-55-22-90	16.5	2.65	3.68	8.25	3.68	1.4	0.75	2.65	7.5	
SO63-3-55-22-90	16.5	4.3	5.08	8.25	5.08	2.15	1.25	4.3	7.5	
SO63-4-55-22-90	19.1	5.95	6.45	8.25	6.45	3.3	1.8	5.95	7.5	
SO63-5-55-22-90	19.1	7	7.6	8.25	7.6	4.3	2.5	7	7.5	

636053

Mftrs. List No.	Order Code	1+	5+	10+
SO63-1-55-22-90	189-1469▲			
SO63-2-55-22-90	189-1470▲			
SO63-3-55-22-90	189-1471▲			
SO63-4-55-22-90	189-1472▲			
SO63-5-55-22-90	189-1473▲			

Soldersleeve Coaxial Cable Terminators



NEW



Used for terminating coaxial cable to component terminals, contacts, PCB and solderless wrap terminals.

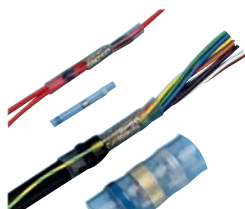
- The parts covered by this SCD are for use in terminating the primary conductor and the braided shield of a coaxial cable having tin or silver plated conductor and shield, rated for at least 125° C and meeting the dimensional requirements listed.
- Parts will meet the requirements of Raychem Specification RT-1404 when installed per Raychem RPIP-500-03.
- Temperature range: -55°C to +150°C

Mftrs. List No.	L Max.	Component Dimensions (mm)			Cable Dimensions (mm)				G	M
		∅A Min.	∅B Min.	∅C Min.	∅D	∅E	∅F Min.			
B-020-24-N	32	6.3	4.6	2.8	2.4 to 6.3	2.3 to 4.6	0.3	19	6	
B-040-24-N	30	4.4	2.8	1.6	1.7 to 4.4	1.5 to 2.8	0.3	16	6	
B-044-24-N	29	3.4	2.3	0.8	1.7 to 3.4	1.3 to 2.3	0.3	16	6	

636888

Mftrs. List No.	Order Code	1+	5+	10+
B-020-24-N	189-1465▲			
B-040-24-N	189-1466▲			
B-044-24-N	189-1468▲			

Wire-Wire and Earth Wire-Screen Splices



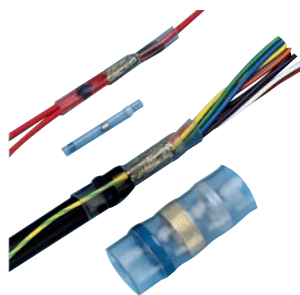
- SolderSleeve™ provides an environmental sealed, insulated and strain relieved solder connection
- Suitable for splicing wires and screens
- Repairing broken/sheered wires
- Splicing ground wire to screen for earthing

Cable Diameter	Length	Mftrs. List No.	Order Code
Wire-wire and wire-screen, 100 per box			
1.7mm	26mm	B-155-3801	119-6243
1.95mm	26mm	B-155-3802	119-6244
2.7mm	42mm	B-155-3803	119-6245
4.5mm	42mm	B-155-3805	119-6246
6mm	42mm	B-155-3806	119-6247
7mm	42mm	B-155-3807	119-6249
Wire-screen only, 50 per box			
8.7mm	42mm	B-155-3809	119-6251
10.7mm	42mm	B-155-3811	119-6252
13mm	42mm	B-155-3813	119-6253

208170

Order Code	1+	5+	10+	100+
119-6243●				
119-6244●				
119-6245●				
119-6246●				
119-6247●				
119-6249●				
119-6251●				
119-6252●				
119-6253●				

RoHS Compliant SolderSleeve™ Terminators



SolderSleeve™ terminators provide a one piece, completely soldered, strain relieved, sealed termination for tinned or bare copper wire conductors. The one piece design allows for a one step simple installation. Compatible with low temperature wires (PVC).

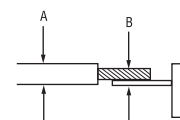
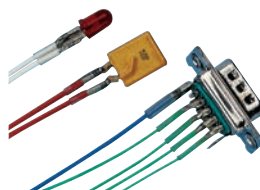
- Fluxed solder ring within a transparent polyolefin heat-shrinkable sealing sleeve
- One piece design
- Terminates tinned or bare copper conductors
- Temperature range -55°C to +125°C

Diameter range	Sleeve Length (mm)	Pack qty	Mftrs. List No.	Order Code
1.5mm - 3.0mm	24.5	100	B-155-03	129-2903
2.0mm - 4.8mm	29.3	100	B-155-05	129-2904
3.3mm - 7.3mm	32.5	50	B-155-07	129-2905
4.5mm - 11.5mm	35.5	25	B-155-11	129-2906

449604

Mftrs. List No.	Order Code	1+	5+	10+	25+
B-155-03	129-2903●				
B-155-05	129-2904●				
B-155-07	129-2905●				
B-155-11	129-2906●				

Wire Termination to Pin, Post or Tab



- SolderSleeve™ gives a perfectly soldered, insulated and strain relieved termination
- Suitable for terminating wires to connectors, switches, LED's, PCB pins and components
- Simply place over joint, insert wire, heat and the solder will flow into joint and shrink sleeve

A (max.) (mm)	B (mm)	Sleeve Length (mm)	Mftrs. List No.	Order Code
2.0	0.9-1.5	16	B-155-1501	119-6241
2.9	1.1-2.3	16	B-155-1502	119-6242

208171

Mftrs. List No.	Order Code	1+	5+	10+	25+
B-155-1501	119-6241●				
B-155-1502	119-6242●				

Hot Melt/Heatshrink Tapes



S1030 Hot Melt Zero Halogen Tape

- Non-flame retarded hot melt black adhesive tape
- EVA/polyamide polymer based
- Recommended for high flexibility at low temperatures
- Ideal for marine environments
- Extremely easy to use, adhesive exhibits excellent flow very quickly when heated under normal installation conditions

- Not recommended where aggressive solvents may be present
- Operating temperature -80°C to +80°C

248489

Mftrs. List No.	Length	Order Code	1+	5+	10+	25+	50+
S1030	10m	417-6704●					
S1081	10m	417-6716●					

Immersion Resistant Crimp Splices



NEW



- Insulation material: Polyvinylidene fluoride
- Crimp barrel: Tin plated copper
- Dielectric strength: 2.5 kV
- Temperature rating: -55°C to 150°C
- Insulation resistance: 5 GΩ

Application:

- These parts are designed to provide immersion resistant in-line splices of 1 to 1 wires falling within size range listed above, and having insulations rated for 105°C.

Heat Shrink Tubing - continued

Immersion Resistant Crimp Splices - continued

Mfrs. List No.	Wire Size (AWG)	Sleeve Length (mm)	Internal Diameter (mm)	Outer Diameter (mm)	End Cap Colour
D-436-36-COLD	26 to 20	36.8	2	4.2	Red
D-436-37-COLD	18 to 16	37.7	2.9	5.1	Blue
D-436-38-COLD	14 to 12	37.7	3.8	5.9	Yellow

Mfrs. List No.	Order Code	1+	5+	10+
D-436-36-COLD	189-1452			
D-436-37-COLD	189-1453			
D-436-38-COLD	189-1454			

Immersion Resistant Crimp Splices



- Insulation material: Polyvinylidene fluoride
- Crimp barrel: Nickel plated copper
- Dielectric strength: 2.5 KV
- Temperature rating: -55°C to 150°C
- Insulation resistance: 5 GΩ

Application:

- These parts are designed to provide an immersion resistant in-line splices of 1 to 1 wires falling within the size range listed, and having nickel-plated conductors and insulations rated for at least 135°C.
- Parts will meet all performance requirements of SAE AS-81824 when installed as outlined below with the following modifications:
 - Heat ageing test temperature of 200°C
 - Thermal shock maximum temperature of 200°C

Mfrs. List No.	Wire Size (AWG)	Sleeve Length (mm)	Internal Diameter (mm)	End Cap Colour
D-200-82	26 to 20	27.94	2.16	Red
D-200-83	20 to 16	27.94	2.79	Blue
D-200-84	16 to 12	27.94	4.32	Yellow

Mfrs. List No.	Order Code	1+	5+	10+
D-200-82	189-1462			
D-200-83	189-1463			
D-200-84	189-1464			

S1125 Heatshrink Adhesive



- Two part Black epoxy/polyamide adhesive kit
- Superior chemical and heat resistant properties
- Supplied in a bi-pac, eliminating mixing errors
- Cures at room temperature to provides optimum performance
- 1 - 1 1/2 hour pot life after mixing
- Suitable for use with heat shrink, moulded parts, tubings, adaptors and back fittings. When mixed the adhesive sets to form a complete seal between the moulded

- shape/tubing/back fitting
- Kit contains 5x10g sachets, abrasive paper for cable preparation, mixing bowls, stick and installation procedure
- Operating temperature -75°C to +150°C
- VG95343 approved

Order Code	1+	5+	10+	25+
S1125-KIT-1	417-6698			

Heatshrink Adhesive

S-1125



- Superior chemical and heat resistant properties
- Cures at room temperature to provides optimum performance
- 1 to 1 1/2 hour pot life after mixing
- Suitable for use with heat shrink, moulded parts, tubings, adaptors and back fittings. When mixed the adhesive sets to form a complete seal between the moulded shape/tubing/back fitting
- Kit contains: 50ml dual syringe
- Operating temperature -75°C to +150°C



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Description	Order Code	Price Each
S1125-KIT-8	189-1536	1+

Accessories	Order Code	Price Each
Applicator	189-1537	

Two Part Epoxy Adhesive

S1005/S1006



S1005/S1006 two part epoxy adhesives for many substrates including Raychem polyolefin tubings, Raychem moulded parts and adaptors, aluminium alloy standard connector end fittings and other metals including mild steel, brass and copper.

- Cures at room temperature in 24hrs
- Suitable for metals including mild steel, brass and copper

S1005

Supplied in two parts A and B. Part A, the epoxy is pale yellow. Part B, the polyamide hardener is amber. Measure one Part A and two Parts B by volume to mix. Contains 2 bottles, 89ml Part A, 178ml Part B.

S1006

Supplied with the epoxy and the hardener pre weighed in two sachets separated by a dividing rail. Slide off dividing rail and kneed contents to mix. Contains 2 sachets, 15g each.

Pot life (once mixed)	Room temperature	Cure time at 60°C	95°C	120°C	Mfrs. List No.	Order Code
2 hrs	24 hrs	4 hrs	1 hr	24 minutes	S1005-KIT-1	129-2725
2 hrs	24 hrs	4 hrs	1 hr	24 minutes	S1006-KIT-1	129-2726

Mfrs. List No.	Order Code	1+	5+	10+	25+
S1005-KIT-1	129-2725				
S1006-KIT-1	129-2726				

Heat Shrink Guns

Heat Shrink Guns - Portable



Butane Gas Powered



- Flameless heat of up to 750°C
- Piezo electronic automatic ignition system
- Operates for 120 minutes with 20ml gas (gas not included)
- Gas control lever to control temperature
- Full instructions included
- Ideal for use with heatshrink
- Deflector attachment and stand included
- Spare orifice assembly provided

Weight (when gas filled)	135g	Gas container capacity	20ml
Nozzle Size	I.D. (mm) 14	O.D. (mm) 20	

Mfrs. List No.	Order Code	1+	5+	10+	25+
MJ-950	353-3992				

Two Speed HL1610



- 1600W entry level model for standard hot air applications
- Two-stage airflow/temperature switch
- Double overheat protection, thermostat & thermal cut-out (restable)
- Hand-held and self-resting
- Available in UK and European Schuko plugs

Air flow setting	I	II
Temperature Range	300°C	500°C
Air Flow	240 l/min	500 l/min
Output	1.6kW	
Dimensions (WxDxH)	240 x 89 x 200mm	
Weight	700g	

Heat Gun Plug	Mfrs. List No.	Order Code	1+	3+
UK	HL1610S	799-7663		
Schuko	HL1610SEUR	799-7680		

Reflector Nozzles	Mfrs. List No.	Order Code	1+	3+
Standard	070519	311-6797		
75mm Wide	073015	311-6815		
Soldering	074616	311-6852		
Reduction Nozzles	Mfrs. List No.	Order Code	1+	3+
14mm Diameter	070717	311-6803		
20mm Diameter	070816	815-0770		

Three Speed HL2010



- Microprocessor controlled, 2000W high-end hot air gun
- Selectable and actual temperature shown on LCD display
- Three-stage airflow/temperature switch
- Electronic temperature control
- Ergonomic soft grip handle
- Double overheat protection, thermostat & thermal cut-out (restable)
- Hand-held and self-resting
- Available in UK and European Schuko plugs



Air flow setting
Temperature range
Air Flow
Temperature setting
Output
Dimensions (WxDxH)
Weight

	I	II	III
Temperature range	50 °C	50 - 630 °C	
Air Flow	150 l/min	300 l/min	500 l/min
Temperature setting	Adjustable in 10 °C steps		
Output	2kW		
Dimensions (WxDxH)	260 x 90 x 205mm		
Weight	860g		

361156

Heat Gun Plug	Mfrs. List No.	Order Code	Price Each	
			1+	3+
UK	HL2010E	799-7671		
Schuko	HL2010E EUR	799-7698		
Reflector Nozzles				
Standard	070519	311-6797		
75mm Wide	073015	311-6815		
Soldering	074616	311-6852		
Reduction Nozzles				
9mm Diameter	070618	815-0788		
14mm Diameter	070717	311-6803		
20mm Diameter	070816	815-0770		

Hot Air Gun HG 2300 E



A powerful hot air tool, for use with standard hot air accessory attachments. Applications include soldering and de-soldering, drying, paint stripping and shrink fitting.

- Fully electronic temperature and airflow control
- Airflow and temperature continuously variable
- Barrel shape for optimum stationary use
- Brushless motor for long service life
- Power cord can be changed without opening casing
- Available in 110V 3 phase or 230V UK mains plug versions



Power Output
Temperature Range
Airflow Rate
Air Pressure

2300W
50 - 600°C
600 l/min. max.
3000 Pa

Motor Life
Heater Life
Length / Diameter (at knock guard)
Weight

approx. 5000 hrs
approx. 800 hrs
355mm / 100mm
850g

535514

Heat Gun	Mfrs. List No.	Order Code	Price Each			
			1+	5+	10+	+
3 Phase	HG 2300E (110V)	170-2586				
UK Mains Plug	HG 2300E UK	170-2587				
Nozzles						
50mm Surface	070113	170-2599				
75mm Surface	070212	170-2597				
50mm Window	070311	170-2598				
Welding	070915	170-2601				
Slit	071011	170-2600				
Large Reflector	073015	311-6815				
Reflector	070519	311-6797				
Soldering Reflector	074616	311-6852				
9mm Reduction	070618	815-0788				
14mm Reduction	070717	311-6803				
20mm Reduction	070816	815-0770				
Accessories						
Guard Cage	074005	170-2602				
Feed Roller	012311	170-2603				
Paint Scraper Kit	010317	170-2604				

Hot Air Gun HG 2300 EM



A powerful hot air tool, for use with professional hot air accessory attachments. Applications include welding plastic and heating with pin point accuracy.

- Electronic thermocouple control automatically monitors and adjusts temperature output
- Airflow and temperature continuously variable
- Barrel shape for optimum stationary use
- Brushless motor for long service life
- Power cord can be changed without opening casing
- Available in 110V 3 phase, EU plug or UK mains plug versions

Power Output
Temperature Range
Airflow Rate
Air Pressure

2300W
50 - 600°C
600 l/min. max.
3000 Pa

Motor Life
Heater Life
Length / Diameter (at knock guard)
Weight

approx. 5000 hrs
approx. 800 hrs
375mm / 100mm
850g

535636

Heat Gun	Mfrs. List No.	Order Code	Price Each			
			1+	5+	10+	10+
3 Phase	HG 2300EM (110V)	170-2588				
UK Mains Plug	HG 2300EM UK	170-2589				
EU Plug	HG 2300EM EU	171-2314				
Nozzles			1+	5+	10+	25+
5mm Round	092214	170-2615				
10mm Round	092313	170-2616				
40 x 2mm Flat Angled	092016	170-2617				
20 x 2mm Flat Angled	092115	170-2618				
Welding	075316	170-2619				

Hot Air Gun HG 2310 LCD



Powerful, electronically controlled hot air tool with continuously adjustable airflow and temperature control. Suitable for all hot-air jobs including plastic welding, drying and shrink fitting.

- Visual display of temperature and speed on LCD
- Selector button for 4 preset programmes
- Memory button
- Continuously adjustable temperature
- Continuously adjustable air flow
- Non-slip end cap

Power Output
Temperature Range
Airflow Rate
Display Mode

2300W
50 - 600°C
600 l/min. max.
LCD in 10°C steps

Programmes

Factory set:
1 = 250°C / approx. 350 l / min.
2 = 350°C / approx. 400 l / min.
3 = 450°C / approx. 500 l / min.
4 = 550°C / approx. 400 l / min.

Temperature Range
Airflow Rate
Display Mode

Stage 1: 50°C
Stage 2: 50 - 600°C
Stage 1: 150 - 250 l / min.
Stage 2: 150 - 500 l / min.

Dimensions (LxWxH)
Weight

260 x 90 x 205mm
940g

535620

Heat Gun	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
3 Phase	HG 2310LCD (110V)	170-2590			
UK Mains Plug	HG 2310LCD UK	170-2591			
EU Plug	HG 2310LCD EU	171-2315			
			1+	5+	10+
50mm Surface	070113	170-2599			
75mm Surface	070212	170-2597			
50mm Window	070311	170-2598			
Welding	070915	170-2601			
Slit	071011	170-2600			
Large Reflector	073015	311-6815			
Reflector	070519	311-6797			
Soldering Reflector	074616	311-6852			
9mm Reduction	070618	815-0788			
14mm Reduction	070717	311-6803			
20mm Reduction	070816	815-0770			
Accessories					
Guard Cage	074005	170-2602			
Feed Roller	012311	170-2603			
Paint Scraper Kit	010317	170-2604			



TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

Heat Shrink Guns - continued

Hot Air Gun HG 4000 E



The HG 4000E has a small nozzle to deliver up to 600 l/min of hot air straight to where it is needed. It is also ideal for welding plastic.

- Electronic thermocouple control automatically monitors and adjusts temperature output
- Airflow and temperature continuously variable
- Barrel shape for optimum stationary use
- Brushless motor for long service life
- Power cord can be changed without opening casing
- Available in 110V 3 phase, 230V UK or 230V EU mains plug versions

1750W
25 - 600°C
600 l/min. max.
LED segment display

20000 hrs
approx. 500 - 800 hrs
370mm / 122mm
1115g

535640

Heat Gun	Mfrs. List No.	Order Code	Price Each			
			1+	5+	10+	25+
3 Phase	HG 4000E (110V)	170-2593				
UK Mains Plug	HG 4000E UK	170-2594				
EU Mains Plug	HG 4000E EU	176-7342				
Nozzles			1+	5+	10+	25+
5mm Round	092214	170-2615				
10mm Round	092313	170-2616				
40 x 2mm Flat Angled	092016	170-2617				
20 x 2mm Flat Angled	092115	170-2618				
Welding	075316	170-2619				

Hot Air Gun HG 5000 E



- Fully electronic temperature and airflow control
- Intelligent motor and temperature control
- Temperature display showing selected and actual temperature
- Easy-to-read LED segment display
- Sturdy single-piece enclosure
- High-performance, long-life brushless motor
- Barrel shape for optimum stationary use

The HG 5000E heats up large areas rationally. The powerful motor delivers up to 800 litres of air per minute through a generously sized blow nozzle.

3400W
25 - 600°C
800 l/min. max.
LED segment display

20000 hrs
approx. 500 - 800 hrs
350mm / 122mm
1190g

535642

Heat Gun	Mfrs. List No.	Order Code	Price Each			
			1+	5+	10+	25+
UK Mains Plug	HG 5000E UK	170-2595				
EU Mains Plug	HG 5000E EU	176-7344				
Nozzles			1+	5+	10+	25+
74 x 3mm Flat Angled	092818	170-2613				
70 x 10mm Flat	092719	170-2614				

Weldy Pic Hot Air Tool

WELDY



- Standard two step heat gun
- Two temperature and airflow settings
- Light weight ergonomic design
- Available in 230V with a UK plug
- Full range of accessories available below

Operating Voltage 230V
Output 1.6kW
Temperature Range +350°C to +500°C
Airflow 350/500 l/min
Weight 500g

231287

Order Code	Price Each			
	1+	5+	10+	25+
230V UK Plug	357-6346			

Weldy Pro Hot Air Tool

WELDY



- Adjustable temperature and two step air flow switch
- Light weight ergonomic design
- Available in 230V, UK and European Schuko plugs and 120V without a plug
- Full range of accessories available below

Operating Voltage 230V
Output 1.8kW
Temperature Range +100°C to +550°C
Airflow 250-550 l/min
Weight 570g

231119

Order Code	Price Each			
	1+	5+	10+	25+
230V UK Plug	317-8596			
230V European Schuko Plug	317-8602			

HellermannTyton

Weldy Plus Hot Air Tool

WELDY



- Digitally adjustable temperature and airflow
- 8 memory functions including set, shrink, form weld, solder, paint and dry with pre-settable temperature and airflow
- Light weight ergonomic design
- Available in 230V, UK and European Schuko plugs and 120V without a plug
- Full range of accessories available below

Operating Voltage 230V
Output 2kW
Temperature Range +80°C to +650°C
Airflow 200-550 l/min
Weight 620g

624052

Description	Order Code	Price Each			
		1+	5+	10+	25+
UK Mains Plug	317-8626				
EU Mains Plug	317-8638				

Weldy Accessories

WELDY



- All accessories can be used with the 'Weldy Pro' and the 'Weldy Plus guns'



HellermannTyton

230383

Order Code	Price Each			
	1+	5+	10+	25+
Welding nozzle	317-8651			
Shrink reflector nozzle	317-8663			
Glass protection nozzle	317-8675			
Wide slot nozzle	317-8687			
Reduction nozzle	317-8699			
Overlap welding nozzle	317-8705			
Pressure roller	317-8717			
Solder sleeve reflector	317-8729			



IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items farnell.com

Cable Markers & Identification

T212M Printer



- Desktop thermal transfer printer
- Economical printer for low to medium volume users
- 300 dpi print heads producing high quality text, barcodes and graphic images.
- Printer is designed for use with Tyco Electronics range of heat shrinkable wire marker sleeves and labels (can not be used with CM-SCE)
- Ribbons and software need to be purchased separately
- UK and European mains leads supplied with printer

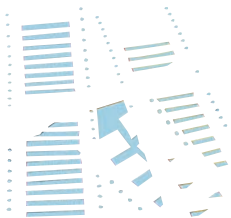
Technical Specification - Printer Ribbon

Mfrs. List No.	T212M	1330-0619-T200
Compatible Printer	T212M	T212M
Ribbon Width	110mm	110mm
Ribbon Length	74m	74m
Ink Type	Resin	Resin
Colour	Black	Black
Ribbon Wind	Ink Side Out	Ink Side Out
Compatible Materials	TMS-SCE & RPS	HX-SCE

505374

Mfrs. List No.	Description	Order Code	Price Each
T212M-PRINTER	Thermal Transfer Printer	156-3974	1+
1330-0607-T200	Ribbon for WP & MP Labels	156-3975	
TMS-101-RIBBON-4RPSCE	Ribbon for TMS-SCE Labels	121-0587	
T200-RIBBON-1966	Ribbon for HX-SCE Labels	NEW 186-0275	
WINTOTAL-5-DONGLE	WinTotal Software Dongle	NEW 183-8361	

RPS Identification Sleeves



Technical Specification

Operating temp.	-30°C to +105°C
Min. recovery temp.	+85°C
Printable length	50mm nom.
Flammability	UL224/VW1
Standards	CSA Certified, UL224 Recognized.

- RPS markers are commercial grade heat shrinkable marking sleeves for wire and cable identification.
- Excellent print performance in conjunction with the 4RPSCE thermal transfer ribbons.
- Configured in ladder format for ease of kitting.
- Outstanding resistance to abrasion, chemicals and solvents.
- Flame retarded with a 3:1 shrink ratio.
- To be used in conjunction with T212M printer and 4RPSCE ribbon

504824

250 Per Box

Diameter		Order Codes		Price Per Box			
Nom.	Shrunk	White	Yellow	1+	5+	10+	25+
3.2	1.1	589-883	589-949				
4.8	1.6	589-895	589-950				
6.4	2.1	589-901	589-962				
9.5	3.2	589-913	589-974				
12.7	4.2	589-925	589-986				
19	6.4	589-937	589-998				
25.4	8.5	304-7325	304-7349				

HX-SCE Identification Sleeves



Low Fire Hazard



Mfrs. List No.	Recommended usage range	Sleeve Length
HX-SCE-2.4-50-4	1.27mm - 1.90mm	50.0
HX-SCE-3.2-50-4	1.75mm - 2.66mm	50.0
HX-SCE-4.8-50-4	2.54mm - 4.06mm	50.0
HX-SCE-6.4-50-4	3.81mm - 5.46mm	50.0
HX-SCE-9.5-50-4	5.59mm - 8.12mm	50.0

- HX-SCE markers are LFH (low Fire Hazard) heat shrinkable marking sleeves for wire and cable identification
- Outstanding low fire hazard properties - low smoke, low toxicity, low flammability
- Ideal for applications in enclosed spaces such as mass transit, marine, and industrial installations
- Excellent print performance in conjunction with the 1966 thermal transfer ribbons
- Configured in ladder format for ease of kitting
- Flame retarded with a 2:1 shrink ratio
- To be used in conjunction with T212M printer and 1966 ribbon

Technical Specification

Operating temperature
Minimum recovery temperature
Standards

-30°C to +105°C
+120°C

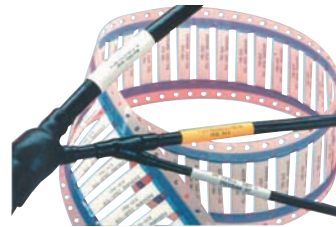
SAE AS81531 4.6.2, MIL-STD-202F Method 215J, BS 6853 [1999] - Vehicle Category 1a, LUL toxic fume (LUL E1042:A6 [2002]) - No halogen, O, N or S sources

504801

250 Per Pack

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	25+
HX-SCE-2.4-50-4	129-1175				
HX-SCE-3.2-50-4	129-1176				
HX-SCE-4.8-50-4	129-1177				
HX-SCE-6.4-50-4	129-1179				
HX-SCE-9.5-50-4	129-1181				

TMS-SCE



These marker sleeves are designed to meet the wire and cable marking needs of manufacturers with high performance requirements. They are made from flame retarded, radiation-crosslinked heat-shrinkable polyolefin.

- TMS-SCE markers are Military grade heat shrinkable marking sleeves for wire and cable identification
- Excellent print performance in conjunction with the 4RPSCE thermal transfer ribbons
- Configured in ladder format for ease of kitting
- Outstanding resistance to abrasion, chemicals, solvents and military fuels and oils
- Flame retarded with a 3:1 shrink ratio
- To be used in conjunction with T212M printer and 4RPSCE ribbon

Technical Specification

Operating temperature
Minimum recovery temperature
Standards

-55°C to +135°C
+85°C

SAE-AMS-DTL-23053/5 classes 1 and 3, SAE AS81531 4.6.2, MIL-STD-202F Method 215J, CSA Certified, UL224 Recognized.

Order Code	Recommended usage range	Diameter		Colour
		unshrunk	shrunk	
TMS-SCE-3/32-2.0-4	0.81mm - 1.9mm	2.36mm	0.79mm	Yellow
TMS-SCE-3/32-2.0-9	0.81mm - 1.9mm	2.36mm	0.79mm	White
TMS-SCE-1/8-2.0-9	1.11mm - 2.66mm	3.18mm	1.07mm	White
TMS-SCE-3/16-2.0-4	1.75mm - 4.06mm	4.75mm	1.57mm	Yellow
TMS-SCE-3/16-2.0-9	1.75mm - 4.06mm	4.75mm	1.57mm	White
TMS-SCE-1/4-2.0-4	2.31mm - 5.46mm	6.35mm	2.11mm	Yellow
TMS-SCE-1/4-2.0-9	2.31mm - 5.46mm	6.35mm	2.11mm	White
TMS-SCE-3/8-2.0-4	3.47mm - 8.12mm	9.53mm	3.18mm	Yellow
TMS-SCE-1/2-2.0-4	4.64mm - 10.79mm	12.7mm	4.22mm	Yellow
TMS-SCE-1/2-2.0-9	4.64mm - 10.79mm	12.7mm	4.22mm	White
TMS-SCE-1-2.0-4	9.29mm - 21.59mm	25.4mm	8.46mm	Yellow
TMS-SCE-1-2.0-9	9.29mm - 21.59mm	25.4mm	8.46mm	White
TMS-SCE-1-1/2-2.0-4	20.95mm - 33.02mm	38.1mm	19.05mm	Yellow
TMS-SCE-1-1/2-2.0-9	20.95mm - 33.02mm	38.1mm	19.05mm	White

504797

250 Per Pack

Mfrs. List No.	Order Code	Price Per Pack	
		1+	5+
TMS-SCE-3/32-2.0-4	114-6693		
TMS-SCE-3/32-2.0-9	114-6694		
TMS-SCE-1/8-2.0-9	114-6697		
TMS-SCE-3/16-2.0-4	114-6698		
TMS-SCE-3/16-2.0-9	114-6699		
TMS-SCE-1/4-2.0-4	114-6700		
TMS-SCE-1/4-2.0-9	114-6702		
TMS-SCE-3/8-2.0-4	114-6703		
TMS-SCE-1/2-2.0-4	114-6705		
TMS-SCE-1/2-2.0-9	114-6706		
TMS-SCE-1-2.0-4	182-2353		
TMS-SCE-1-2.0-9	182-2355		
TMS-SCE-1-1/2-2.0-4	182-2356		
TMS-SCE-1-1/2-2.0-9	182-2357		

Military Grade Heat Shrink Labels

NEW



Military grade heat shrink labels are pre-cut, heat-shrinkable flattened polyolefin which readily accept thermal transfer print. The product meets the material requirements and physical properties of AMS-DTL-23053/5C (Class 1 and Class 3) and MIL-M-81531 and MIL-STD-883E, Notice 4, Method 2015.13 when printed with RMH4BL or RMR4BL series thermal transfer ribbons. UL 224 standard with a VW-1 for flammability.

Military Grade Heat Shrink Labels - continued

Mfrs. List No.	Labels Per Row	Labels Per Roll	Cable Outside Dia.	
			Min. (mm)	Max. (mm)
25mm White				
H100X025H1T	2	1000	1	3.3
H100X034H1T	2	1000	1.5	4.8
H100X044H1T	2	1000	2	6.3
H100X064H1T	2	1000	4	9.6
H100X084H1T	2	1000	4.3	12.7
H100X165H1T	2	500	8.38	25.4
25mm Yellow				
H100X025H2T	2	1000	1	3.3
H100X034H2T	2	1000	1.5	4.8
H100X044H2T	2	1000	2	6.3
H100X064H2T	2	1000	4	9.6
H100X084H2T	2	1000	4.3	12.7
H100X165H2T	2	500	8.38	25.4
50mm White				
H200X025H1T	1	500	1	3.3
H200X034H1T	1	500	1.5	4.8
H200X044H1T	1	500	2	6.3
H200X064H1T	1	500	4	9.6
H200X084H1T	1	500	4.3	12.7
H200X165H1T	1	250	8.38	25.4
50mm Yellow				
H200X025H2T	1	500	1	3.3
H200X034H2T	1	500	1.5	4.8
H200X044H2T	1	500	2	6.3
H200X064H2T	1	500	4	9.6
H200X084H2T	1	500	4.3	12.7
H200X165H2T	1	250	8.38	25.4

610323

Mfrs. List No.	Labels Per Roll	Order Code	Price Per Reel		
			1+	5+	10+
25mm White					
H100X025H1T	1000	182-6671			
H100X034H1T	1000	182-6672			
H100X044H1T	1000	182-6673			
H100X064H1T	1000	182-6674			
H100X084H1T	1000	182-6675			
H100X165H1T	500	182-6676			
25mm Yellow					
H100X025H2T	1000	NEW 206-3519			
H100X034H2T	1000	NEW 206-3520			
H100X044H2T	1000	NEW 206-3521			
H100X064H2T	1000	NEW 206-3522			
H100X084H2T	1000	NEW 206-3523			
H100X165H2T	500	NEW 206-3524			
50mm White					
H200X025H1T	500	NEW 206-3525			
H200X034H1T	500	NEW 206-3526			
H200X044H1T	500	NEW 206-3527			
H200X064H1T	500	NEW 206-3528			
H200X084H1T	500	NEW 206-3531			
H200X165H1T	250	NEW 206-3532			
50mm Yellow					
H200X025H2T	500	NEW 206-3533			
H200X034H2T	500	NEW 206-3534			
H200X044H2T	500	NEW 206-3535			
H200X064H2T	500	NEW 206-3536			
H200X084H2T	500	NEW 206-3537			
H200X165H2T	250	NEW 206-3538			

Heat Shrinkable UV Protection Sleeves



TMS-CCUV



- TMS-CCUV clear heat shrinkable sleeves are designed for the over protection of 'System Six' identification products
- Commonly used in outdoor applications, to prevent the fading and discoloration of markers exposed to UV light
- Exceptional clarity and stability
- These overlaminates sleeves protect against the effects of ultra-violet, with tough resistance to abrasion and industrial fluids
- Low Profile

Technical Specification

Operating temperature
Minimum recovery temperature
Standards

-55°C to +150°C
+150°C
UL VW-1 rated, SAE-AMS-DTL-23053/18, Class 2

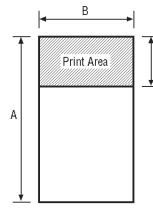
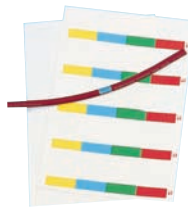
Mfrs. List No.	Inside diameter	Recovered diameter	Sleeve Length
TMS-CCUV-SLEEVE-1-X-65MM	3.2mm	1.6mm	65.0mm
TMS-CCUV-SLEEVE-3-X-65MM	6.4mm	3.2mm	65.0mm
TMS-CCUV-SLEEVE-4-X-65MM	9.5mm	4.8mm	65.0mm
TMS-CCUV-SLEEVE-5-X-65MM	12.7mm	6.4mm	65.0mm

504778

250 Per Pack

Mfrs. List No.	Order Code	1+	5+	10+	25+
TMS-CCUV-SLEEVE-1-X-65MM	129-1183				
TMS-CCUV-SLEEVE-3-X-65MM	129-1185				
TMS-CCUV-SLEEVE-4-X-65MM	129-1186				
TMS-CCUV-SLEEVE-5-X-65MM	129-1187				

Self Laminating



- Self adhesive white/clear and colour/clear polyester labels on A4 sheets
- Sheet of colour markers includes 10 red, 10 green, 10 blue and 10 yellow
- Colour markers offer the ideal solution to network planning as paired ends in cable looms become instantly visible

- Printed on using laser printer or pen
- White or coloured section adhered to cable
- Clear section wraps around to protect information
- -40°C to +125°C serviceable temperature range
- Resistant to dirt, oil, water, alcohol, petroleum and petroleum based oils
- Suitable for BS EN ISO 60950 requirements

Print Area		Mfrs. List No.	Order Code	Print Area		Mfrs. List No.	Order Code
A	B x C			A	B x C		
38	12mm x 13mm	11015	890-728	75	25mm x 29mm	11016	890-753
40	10mm x 20mm	11012	890-730	90	23mm x 25mm	11025	890-765
40	13mm x 52mm	11013	890-741	40	10mm x 12mm	11012C	303-4227

208185

10 Sheets Per Pack

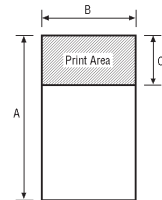
Price Per Pack

Labels Per Sheet	Order Code	1+	10+	20+	40+
White					
60	890-728				
42	890-730				
18	890-741				
18	890-753				
24	890-765				
Colours					
40	303-4227				

TKM Self Laminating Labels



Write on



- Simple, quick and durable self-laminating labels for wire, cable and pipe identification
- Write-on white area which is protected against mechanical influences by a transparent layer
- Supplied in handy pocket booklet format for ease of use
- Ideal for field repair or maintenance
- Operating temperature -30°C to +120°C

Mfrs. List No.	Label Height (A)	Label Width (B)	Printable Height (C)	Labels per booklet	Order Code
TKM-50	50	25	15	90	417-7642
TKM-75	75	25	25	60	417-7654
TKM-150	150	25	25	30	417-7666
TKM-230	230	25	25	30	417-7678

243151

Mfrs.

Price Per Booklet

List No.	Order Code	1+	5+	10+	25+
TKM-50	417-7642				
TKM-75	417-7654				
TKM-150	417-7666				
TKM-230	417-7678				

Snap-On Cable Markers



Snap-On Cable Markers allow for the marking of in-situ wiring or cables after termination. Markers are easily and quickly applied using the built-in applicator. The material used to produce the markers is very elastic which allows them to grip the wire and remain in place once applied.

- Chevron cut ensures legends remain aligned
- Excellent Chemical Resistance
- Snap On marker for terminated cables
- Each applicator contains 30 markers
- Colour coding enables identification when mark is obscured

- Available in 4 sizes
- Manufactured using high quality copolymer
- Maximum Temperature 125°C
- 5.80mm - 8.50mm sold in packs of 50, Applicator tool sold separately

G-Type™ Cable Markers



G-Type™ Cable Markers are manufactured using a Zero Halogen, cadmium and silicone free material. The gusseted design means each size covers a range of cable diameters and the chevron cut ensures the legend remains aligned.

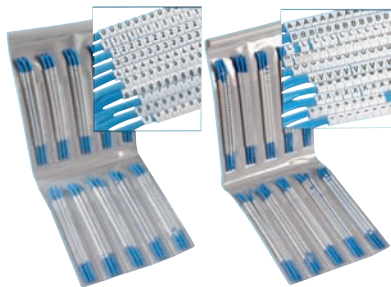
- Zero Halogen, UL94 Vo gusseted marker
- Three sizes available
- Easy application
- Interlocking for alignment of legend
- Manufactured from thermoplastic compound
- Markers yellow body with black legend
- Maximum Temperature 70°C
- Supplied in packs of 100

Legend	Colour	Suitable Cable Dia. 2.6-3.5mm Order Code	Suitable Cable Dia. 3.3-4.5mm Order Code	Suitable Cable Dia. 4.5-6.0mm Order Code	Suitable Cable Dia. 5.8-8.5mm Order Code
0	Black	782-4637	782-5234	782-6079	782-6460
1	Brown	782-4645	782-5242	782-6087	782-6478
2	Red	782-4653	782-5250	782-6095	782-6486
3	Orange	782-4661	782-5269	782-6109	782-6494
4	Yellow	782-4670	782-5277	782-6117	782-6508
5	Green	782-4688	782-5293	782-6125	799-8422
6	Blue	782-4696	782-5307	782-6133	799-8430
7	Violet	782-4700	782-5315	782-6141	799-8449
8	Grey	782-4718	782-5323	782-6150	799-8457
0	White	782-4726	782-5331	782-6168	799-8465
1	White	782-4823	782-5340	782-6176	799-8473
2	White	782-4831	782-5358	782-6184	799-8481
3	White	782-4840	782-5366	782-6192	799-8490
4	White	782-4858	782-5374	782-6206	799-8503
5	White	782-4866	782-5382	782-6214	779-8156
6	White	782-4874	782-5390	782-6222	779-8164
7	White	782-4882	782-5404	782-6230	779-8172
8	White	782-4890	782-5412	782-6249	779-8180
9	White	782-4904	782-5420	782-6257	779-8199
A	White	782-4912	782-5439	782-6265	779-8202
B	White	782-4920	782-5447	782-6273	779-8210
C	White	782-4939	782-5455	782-6281	779-8229
E	White	782-4947	782-5463	782-6290	779-8237
L	White	782-4955	782-5471	782-6303	779-8245
N	White	782-4963	782-5480	782-6311	779-8253
R	White	782-4971	782-5498	782-6320	779-8261
S	White	782-4980	782-5501	782-6338	779-8270
T	White	782-4998	782-5510	782-6346	779-8288
+	White	782-5005	782-5528	782-6354	779-8296
-	White	782-5013	782-5536	782-6362	779-8300
⊕	White	782-5021	782-5544	782-6370	779-8318

361199

Description	Order Code	Price Per Pack	
		1+	10+
2.6-3.5mm	All Order Codes		
3.3-4.5mm	All Order Codes		
4.5-6.0mm	All Order Codes		
5.8-8.5mm	All Order Codes		
Applicator Tool		Price Each	
5.8-8.5mm	779-8326		

Snap-On Marker Kits



Snap-on markers available in a convenient wallet with 10 pockets, each holding 3 applicators (90 markers), and total 900 markers in white

- All labels are black text on a white background
- Range B contains A, B, L, N, U, V, W, X, +, -
- Range A contains 0-9

Order Code	Range	Min. Cable Diameter	Max. Cable Diameter	Order Code	Range	Min. Cable Diameter	Max. Cable Diameter
114-6682	A	1.9mm	2.65mm	114-6686	B	2.6mm	3.5mm
114-6684	B	1.9mm	2.65mm	114-6687	A	3.25mm	4.5mm
114-6685	A	2.6mm	3.5mm				

446603.435244

Range	Cable Diameter	Order Code	Price/Pack	
			1+	5+
A	1.9mm - 2.65mm	114-6682		
B	1.9mm - 2.65mm	114-6684		
A	2.6mm - 3.5mm	114-6685		
B	2.6mm - 3.5mm	114-6686		
A	3.25mm - 4.5mm	114-6687		

Legend	Cable Dia.	Order Code	Cable Dia.	Order Code	Cable Dia.	Order Code	Legend	Cable Dia.	Order Code	Cable Dia.	Order Code
0	780-0100	780-1343	780-3168	K	780-0940	780-2374	780-3532				
1	780-0126	780-1351	780-3176	L	780-0959	780-2382	780-3540				
2	780-0134	780-1360	780-3184	M	780-0967	780-2390	780-3559				
3	780-0142	780-1378	780-3192	N	780-0975	780-2404	780-3567				
4	780-0150	780-1386	780-3206	O	780-0983	780-2633	780-4466				
5	780-0169	780-1394	780-3222	P	780-0991	780-2650	780-4474				
6	780-0177	780-1408	780-3230	Q	780-1009	780-2668	780-4482				
7	780-0185	780-1416	780-3249	R	780-1017	780-2676	780-4490				
8	780-0193	780-1424	780-3257	S	780-1025	780-2684	780-4504				
9	780-0207	780-1432	780-3265	T	780-1033	780-2706	780-4512				
A	780-0843	780-2269	780-3435	U	780-1041	780-2714	780-4520				
B	780-0851	780-2285	780-3443	V	780-1050	780-2722	780-4539				
C	780-0860	780-2293	780-3451	W	780-1068	780-2730	780-4547				
D	780-0878	780-2307	780-3460	X	780-1076	780-2749	780-4555				
E	780-0886	780-2315	780-3478	Y	780-1084	780-2757	780-4563				
F	780-0894	780-2323	780-3486	Z	780-1092	780-2765	780-4571				
G	780-0908	780-2331	780-3494	+	780-1106	780-2773	780-4580				
H	780-0916	780-2340	780-3508	-	780-1114	780-2781	780-4598				
I	780-0924	780-2358	780-3516	⊕	780-1122	780-2790	780-4601				
J	780-0932	780-2366	780-3524								

361246

Description	Order Code	Price Per Pack	
		1+	10+
1.4-2.5mm	All Order Codes		
2.0-3.5mm	All Order Codes		
3.0-6.0mm	All Order Codes		

K-Type™ Cable Markers



- Elliptical profile which allows a wide cable diameter range from 4mm to 10mm
- Large characters for easy reading
- Colour coding enables identification when mark is obscured



- Marks available: A to Z, 1 to 9, +, -, /, Earth and Full Stop
- Supplied on Reel of 500 markers
- Carrier Strips applicator tools available for marking outer cables, conduit or pipes before or after termination
- Manufactured from Plasticised PVC
- Yellow Background with Black legend
- Maximum Temperature 70°C

Legend	Order Code	Legend	Order Code	Legend	Order Code	Legend	Order Code
0	127-2273	A	127-2284	K	127-2295	U	127-2307
1	127-2274	B	127-2285	L	127-2296	V	127-2308
2	127-2276	C	127-2286	M	127-2297	W	127-2309
3	127-2277	D	127-2288	N	127-2298	X	127-2310
4	127-2278	E	127-2289	O	127-2300	Y	127-2311
5	127-2279	F	127-2290	P	127-2301	Z	127-2312
6	127-2280	G	127-2291	Q	127-2302	+	127-2313
7	127-2281	H	127-2292	R	127-2303	-	127-2314
8	127-2282	I	127-2293	S	127-2304	/	127-2315
9	127-2283	J	127-2294	T	127-2306	⊕	127-2316
						.	127-2318

361196

Description	Order Code	Price Per Pack	
		1+	10+
Markers	All Order Codes		
Carrier Strips		Price Per Pack	
7 Digit (500pcs)	781-5492		
12 Digit (500pcs)	781-5506		

Straight Cut - 'Z' Type



An expandable gusset cable marker manufactured in plasticised PVC. The expanding gusset allows one marker to span a wide range of diameters. Each numeric marker is colour coded and marked with the corresponding number (0-9). Alphabetic and symbol markers

Self Laminating Labels



- No special equipment needed - print direct to any standard office laser printer
- Pre-cut for rapid removal from backing sheet
- Labels are manufactured from durable polyester

NEW

Mfrs. List No.	Printable Area	Labels per Sheet	Colour
P/TAG/2207L	22mm x 7mm	280	White
P/TAG/5010L	50mm x 10mm	75	White
P/TAG/6025L	60mm x 25	30	White

649481

Price Per Pack

Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
P/TAG/2207L	10	207-5102			
P/TAG/5010L	10	207-5103			
P/TAG/6025L	10	207-5104			

2 Part Labelling System



This two-part solution is designed to label small cables and cores. Simply slide your cable/core into one part of the clear plastic sleeve, then using the special tail, pull the ident marker into the other part. The ident markers are easy to change post-in-

NEW

stallation without cutting or disconnecting the cable or core - just remove the old marker then pull a new marker into the plastic sleeve.

- No special equipment needed - print direct to any standard office laser printer
- Labels are manufactured from durable polyester
- Saves time - print up to 75 labels in 15 seconds

Labels	Mfrs. List No.	Dimensions	Labels per Sheet	Colour
L75/20L	L75/20L	20mm x 5mm	75	White
L45/30L	L45/30L	30mm x 5mm	45	White
L38/50L	L38/50L	50mm x 5mm	38	White

Tubing	Mfrs. List No.	Length	Insulation OD	Colour
LT/1-2/20	LT/1-2/20	20mm	1.25mm - 2.5mm	White
LT/1-2/30	LT/1-2/30	30mm	1.25mm - 2.5mm	White
LT/1-2/50	LT/1-2/50	50mm	1.25mm - 2.5mm	White
LT/2-4/20	LT/2-4/20	20mm	2.5mm - 4mm	White
LT/2-4/30	LT/2-4/30	30mm	2.5mm - 4mm	White
LT/2-4/50	LT/2-4/50	50mm	2.5mm - 4mm	White
LT/3-5/20	LT/3-5/20	20mm	3mm - 5mm	White
LT/3-5/30	LT/3-5/30	30mm	3mm - 5mm	White
LT/3-5/50	LT/3-5/50	50mm	3mm - 5mm	White
LT/4-7/20	LT/4-7/20	20mm	4mm - 7mm	White
LT/4-7/30	LT/4-7/30	30mm	4mm - 7mm	White
LT/4-7/50	LT/4-7/50	50mm	4mm - 7mm	White

649472

Price Per Pack

Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
L75/20L	10	207-5105			
L45/30L	10	207-5107			
L38/50L	10	207-5108			
LT/1-2/20	500	207-5109			
LT/1-2/30	500	207-5110			
LT/1-2/50	500	207-5111			
LT/2-4/20	500	207-5112			
LT/2-4/30	500	207-5113			
LT/2-4/50	500	207-5114			
LT/3-5/20	500	207-5115			
LT/3-5/30	500	207-5116			
LT/3-5/50	500	207-5117			
LT/4-7/20	500	207-5119			
LT/4-7/30	500	207-5121			
LT/4-7/50	500	207-5122			

Self Laminating Labels



Using a colour laser printer you can print colour background/text or Resistor Colour Coding. These options can be selected within the Labacus Innovator Advanced software.

NEW

- No special equipment needed - print direct to any standard office laser printer
- The label wraps around itself to self-laminate and protect the print
- Saves you time - print up to 90 labels in 15 seconds
- Labels are manufactured from durable polyester

Mfrs. List No.	Cable OD	Printable Area	Labels per Sheet	Colour
P04/2510LW	4mm	25mm x 10mm	80	White
P06/1218LW	6mm	12mm x 18mm	90	White
P06/2518LW	6mm	25mm x 18mm	48	White
P06/5018LW	6mm	50mm x 18mm	24	White
P10/2530LW	10mm	25mm x 30mm	32	White

649473

Price Per Pack

Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
P04/2510LW	10	207-5097			
P06/1218LW	10	207-5098			
P06/2518LW	10	207-5099			
P06/5018LW	10	207-5100			
P10/2530LW	10	207-5101			

Cable Markers



Pre-perforated labels produced on special plastic A4 sheets. Available in 3 sizes. Once printed simply fold the sheet along the perforations, remove the labels and then fix to cable with industry standard cable ties.

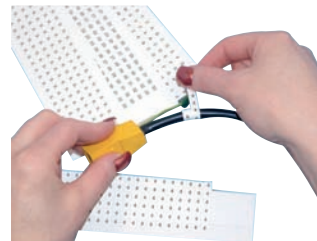
NEW

- No special equipment needed - print direct to any standard office laser printer
- Labels are manufactured from durable polyester
- Saves time - print up to 60 labels in 15 seconds

649474

Mfrs. List No.	Label Colour	Label Dimensions	Labels per Sheet	Pack Qty	Order Code	Price Per Pack
LS6214LW	White	62mm x 14mm	54	10	207-5091	
LS6214LY	Yellow	62mm x 14mm	54	10	207-5092	
LM8816LW	White	88mm x 16mm	30	10	207-5093	
LM8816LY	Yellow	88mm x 16mm	30	10	207-5094	
LXL8822LW	White	88mm x 22mm	22	10	207-5095	
LXL8822LY	Yellow	88mm x 22mm	22	10	207-5096	

Identification Wire Marker Cards



- Pre-printed wire markers manufactured from vinyl coated cloth material, with a permanent rubber based pressure sensitive adhesive
- Supplied on a thick easy to handle card stock with 33 wire markers per card
- Designed for basic wire marking applications for single or double digit legends
- label: 6.40mm (W) x 38.10mm (H)
- Moderately resistant to abrasion, common solvents, cleaners, water, oil and dirt

361274

Legend	Order Code	Price Per Card	Legend	Order Code	Price Per Card
0	780-4873	1+	6	780-5721	1+
1	780-4890	10+	7	780-5730	1+
2	780-4903		8	780-5748	1+
3	780-4911		9	780-5756	1+
4	780-4920		1 to 33	780-5764	1+
5	780-4938		A to Z	780-5772	1+

FREE GLOBAL LEGISLATION SUPPORT



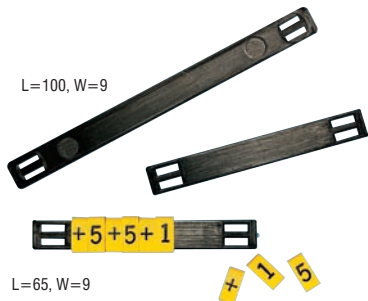
RoHS, REACH, WEEE, ErP, Batteries Directive - latest updates, free white papers and live online Q&A at element14.com/legislation



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Straight Cut 'Oval' Type - 5mm



- Straight cut 5mm wide markers
- Yellow plasticised PVC with black legend
- Can be used as conventional wire markers or alternatively on carrier strips
- 65mm carrier strip holds 9 markers and 100mm strip holds 16 markers
- Secured at either end using cable ties or lacing cord

Wire Diameter 3.5-6.0mm, Operating Temperature -65 to 70°C

Legend	Order Code	Legend	Order Code	Legend	Order Code
0	126-9068	A	126-9084	N	126-9098
1	126-9071	B	126-9085	O	126-9099
2	126-9072	C	126-9086	P	126-9101
3	126-9073	D	126-9087	Q	126-9102
4	126-9074	E	126-9088	R	126-9103
5	126-9075	F	126-9089	S	126-9104
6	126-9076	G	126-9090	T	126-9105
7	126-9077	H	126-9091	U	126-9106
8	126-9078	I	126-9092	V	126-9107
9	126-9079	J	126-9093	W	126-9108
+	126-9080	K	126-9095	X	126-9109
-	126-9081	L	126-9096	Y	126-9110
/	126-9083	M	126-9097	Z	126-9111
⊕	126-9115				

208226

Legend	Order Code	Price Per Pack			
		1+	5+	10+	25+
Markers	500	All Order Codes			
65mm Carrierstrip	100	126-9113			
100mm Carrierstrip	100	126-9114			

Wire and Cable Markers



This fast and easy to use snap-on marker is ideal for use in areas where termination has been completed or where systems need to remain switched on. WIC markers are specially engineered to remain in place even under continuous vibration. The robust locking mechanism ensures that the marker legend is always visible on the cable in areas of vibration or other cable movement. WIC markers are fitted by simply clicking them on using the WIC tool. The WIC tool can be used for all sizes and takes up to 20 markers.

- Operating temperature: -40°C to 85°C
- Flammability: UL94 V0
- Manufactured in Polyamide 6.6

Mfrs. List No.	Legend	Colour	Outside Dia. (mm)		Pack Qty
			Min.	Max.	
WIC1-0-9-PA-YE-T1	0 to 9	Black on Yellow	2	2.8	200
WIC1-0-9-PA-CC-T1	0 to 9	Various	2	2.8	200
WIC2-0-9-PA-YE-T1	0 to 9	Black on Yellow	2.8	3.8	200
WIC2-0-9-PA-CC-T1	0 to 9	Various	2.8	3.8	200
WIC3-0-9-PA-YE-C1	0 to 9	Black on Yellow	4.3	5.3	100
WIC3-0-9-PA-CC-C1	0 to 9	Various	4.3	5.3	100

610523

Mfrs. List No.	Pack Qty	Order Code	1+	5+	10+
WIC1-0-9-PA-YE-T1	200	182-7077			
WIC1-0-9-PA-CC-T1	200	182-7079			
WIC2-0-9-PA-YE-T1	200	182-7081			
WIC2-0-9-PA-CC-T1	200	182-7082			
WIC3-0-9-PA-YE-C1	100	182-7083			
WIC3-0-9-PA-CC-C1	100	182-7084			

Accessories		Price Each			
Applicator tool for all sizes	182-7085				

Cable Covers/Protectors



- Designed to protect cables and prevent accidents where cables cross open floor
- All have tapered edges and non-slip ribbed bases
- Supplied individually boxed with a disposable knife to slit the base, if required
- Achieves **BS476 part 7 class 3** (fire retardant)
- Tested to **BS6458 section 2.1** and **BS2782 part 1**

624065

Colour	Size W x H	Driver Hole Size	Length (m)	Order Code	Price Per Length	
					1+	3+
Black	80 x 14	30 x 10	3	431-8468		
Black	80 x 14	30 x 10	9	431-8470		

Chevron Cut Helagrip Mk2 Kits



- Convenient 18 compartment storage box
- 2 size options:
1-3 for cable dia. 1.3 - 2.8mm
2-5 for cable dia. 2.25 - 5.0mm
- Kit contains 4500 markers, 250 each of following:
0-9 inclusive (coloured), R, S, T, +, -, L, N, ⊕ (white)
- Contents individually refillable from standard Helagrip Mk2 range

H=45, W=265, D=170mm

208265

Size	Cable Diameter	Order Code	Price Each		
			1+	10+	25+
1-3	1.3mm-2.8mm	120-1701			
2-5	2.25mm-5mm	120-1702			

TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

Post Termination Markers



The easy to use WIC clip on cable marker is ideal for both pre and post termination marking. WIC's (Wire Identification Clip) uniquely strong gripping profile ensures that the marker stays in place even under the most arduous of conditions.

- Easy to apply with or without the applicator tool
- Only 3 sizes needed to cover cables from 1.5mm-6mm
- Each WIC marker interlocks with the next to form perfectly aligned multi-mark codes
- Unique applicator tool (sold separately) makes application easy especially in confined spaces
- Markers are supplied loaded into a handy pocket sized dispenser
- Manufactured from high grade Nylon 66 for excellent mechanical strength and chemical resistance

Order Code	Cable size range	Packaging	Colour Codes	Kit Contents
872-1645	2.0mm - 2.8mm	10 strips of 20 marks	Multicolour	0,1,2,3,4,5,6,7,8,9
872-1653	2.8mm - 3.8mm	10 strips of 20 marks	Multicolour	0,1,2,3,4,5,6,7,8,9
872-1661	4.3mm - 5.3mm	10 strips of 10 marks	Multicolour	0,1,2,3,4,5,6,7,8,9
872-1670	2.0mm - 2.8mm	10 strips of 20 marks	Black on Yellow	A,E,L,N,R,S,T,+,-,Earth
872-1688	2.8mm - 3.8mm	10 strips of 20 marks	Black on Yellow	A,E,L,N,R,S,T,+,-,Earth
872-1696	4.3mm - 5.3mm	10 strips of 10 marks	Black on Yellow	A,E,L,N,R,S,T,+,-,Earth

386230

Description	Order Code	1+	3+
Multi Coloured kits			
2.0mm-2.8mm	872-1645		
2.8mm-3.8mm	872-1653		
4.3mm-5.3mm	872-1661		
Black on Yellow kits			
2.0mm-2.8mm	872-1670		
2.8mm-3.8mm	872-1688		
4.3mm-5.3mm	872-1696		
Accessories			
Applicator tool for all sizes	872-1637		

Chevron Cut Helagrip Mk 2 Cassettes



H=15, W=90, D=77mm

- Pocket sized
- Quick efficient cable identification
- Two size options: SIZE 1-3 for cable dia. 1.3-2.8mm, SIZE 2-5 for cable dia. 2.25-5.0mm
- PTFE coated applicator tool, stores in centre of cassette

- Refillable with Helagrip Mk2 Cable Markers
- Both sizes contain: 25 of A, E, L, N, R, S, T, +, -, ⚡ (white)
- Size 1-3 also has an extra 25 of 0, 1, 2, 3

208186

Size	Cable		Order Code	Price Each		
	Diameter			1+	10+	25+
1-3	1.3 - 2.8mm		120-1800			
2-5	2.25 - 5mm		120-1802			

Chevron Cut - Helagrip Mk 2

HellermannTyton



Reel dia. = 158.0mm

A range of right-facing chevron cut soft PVC cable markers available in either **CEGB** approved black on white or colour coded versions. Supplied semi-severed on self-grip dispenser reels of 1000. Flame retardant to **UL94V-0**.

Operating temperature -65°C to +135°C (+135°C peak, 200 hrs. max.)

Legend	Colour	Size 1-3 Cable Dia. 1.3-2.8		Size 2-5 Cable Dia. 2.25-5.0	
		Order Code		Order Code	
0	Black	120-1734		120-1766	
1	Brown	120-1735		120-1767	
2	Red	120-1737		120-1768	
3	Orange	120-1738		120-1769	
4	Yellow	120-1739		120-1770	
5	Green	120-1740		120-1771	
6	Blue	120-1741		120-1772	
7	Violet	120-1742		120-1774	
8	Grey	120-1743		120-1775	
9	White	120-1744		120-1776	
0	White	120-1745		120-1777	
1	White	120-1746		120-1778	
2	White	120-1747		120-1779	
3	White	120-1749		120-1780	
4	White	120-1751		120-1781	
5	White	120-1752		120-1782	
6	White	120-1753		120-1783	
7	White	120-1754		120-1784	
8	White	120-1755		120-1786	
9	White	120-1756		120-1787	
L	White	120-1757		120-1788	
N	White	120-1758		120-1789	
R	White	120-1759		120-1790	
S	White	120-1760		120-1791	
T	White	120-1762		120-1792	
+	White	120-1763		120-1793	
-	White	120-1764		120-1794	
⚡	White	120-1765		120-1795	

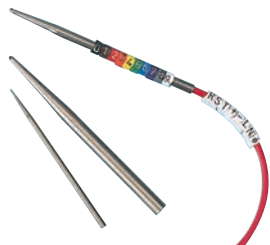
208015

1000 Per Reel

Size	Cable Diameter		Order Code	Price Per Reel		
	(mm)			1+	5+	10+
1-3	1.3-2.8mm		All Order Codes			
2-5	2.25-5mm		All Order Codes			

'Thimble Jig' Applicator Tools

HellermannTyton



- Designed for use with Helagrip Mk2 markers
- PTFE coated for easy application
- Two size options: 1-3 and 2-5

208282

Size	Cable Diameter	Order Code	Price Each		
			1+	10+	25+
1-3	1.3-2.8mm	135-616			
2-5	2.25-5mm	135-628			

Coded Tape



Coded tape markers packaged in a pocket-sized book format. Manufactured in self-adhesive Vari-Temp tape which exhibits excellent performance and durability over wide temperatures. They are also resistant to moisture, fungus, oil and abrasion.

Mfrs. List No.	No. of Markers
WM09	40 each 0 to 9
	10 each T ₁ , T ₂ , T ₃ , L ₁ , L ₂ , L ₃
WM045	10 each 0 to 45
WM4690	10 each 46-90
WMAZ	10 each A to Z, +, -, 0 to 15
WMA33	10 each 1 to 33, A,B,C, +, -, T ₁ , T ₂ , T ₃ , L ₁ , L ₂ , L ₃
WMA90	6 each 0 to 15
	4 each 16 to 90
	2 each A to Z, +, -
WM123	150 each 1,2,3.
WMABC	150 each A, B, C

SUITABLE FOR ANY SIZE OF WIRE OR CABLE

224113

Mfrs. List No.	Order Code	Price Per Book		
		1+	3+	10+
WM09	303-185			
WM045	303-197			
WM4690	303-203			
WMAZ	303-215			
WMA33	303-227			
WMA90	303-239			
WM123	303-240			
WMABC	303-252			

-18°C°C137

Self Adhesive Wire Markers

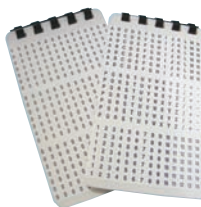


- White on black legend
- Material: Cloth
- Stick to wires for permanent identification

542472

Legend	Label Size	Order Code	Price Per Card		
			1+	10+	50+
0-9	(24 strips of 4)	25 x 6.5mm 174-0446			
1 - 34	(6 strips of 4)	25 x 6.5mm 174-0447			
A-Z	(6 strips of 4)	25 x 6.5mm 174-0448			
Blank	240 Labels	25 x 6.5mm 174-0449			
Blank	120 Labels	40 x 10mm 174-0450			

Self Adhesive Wire Markers



- White on black legend
- Material: Cloth
- Stick to wires for permanent identification

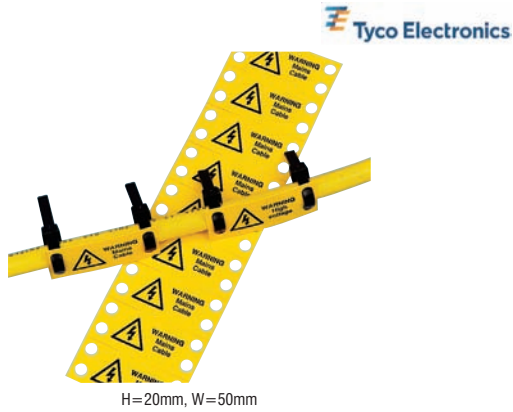
542477

Legend	Label Size	Order Code	Price Per Card		
			1+	10+	50+
0-9	(45 strips of 7)	25 x 6.5mm 174-0451			
A-Z	(10 strips of 7)	25 x 6.5mm 174-0454			
1 - 45	(10 strips of 7)	25 x 6.5mm 174-0455			

IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items farnell.com

Warning Tags



H=20mm, W=50mm

- Rigid, extruded PVC
- Used to identify cables in adverse conditions
- Bound to cables using standard 200mm cable ties supplied
- Supplied in strips of 10 in easy snap out format

208191

10 Per Pack Legend	Mftrs. List No.	Order Code	Price Per Pack
High Voltage	11017	861-431	1+
Mains Cable	11018	861-443	1+

Pack contains: Strip of 10 labels & 20 cable ties

Cable Marking System

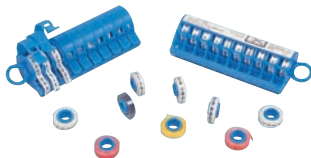


Handy cable marking dispensers with tear off mechanism. Each dispenser is filled with 10 rolls of self-adhesive vinyl cloth tape, one roll of each number 0-9 or one of 10 colours.

446616.437431

Description	Order Code	1+	5+
Full Dispenser (0-9)	109-6731		
Full Dispenser (Colours)	109-6733		

Pan-Code® Wire Marker Dispenser



L=127, W=42, D=35mm
Tape Roll Length=8ft

Mftrs. List No:
(Empty dispenser) PMD = 146-4158
(Loaded dispenser) PMD-0-9 = 146-4159
(Refill Pack) PMDR0-9 = 146-4160

Wire marker tape dispenser, manufactured in tough Blue polypropylene, holding up to ten rolls of self adhesive polyester film tape. Easy to use, simply open cover, pull out desired length of tape, close cover and press firmly on to integral cutting blade. To reload, open cover, remove empty spool and drop in new roll. Dispenser available either empty or preloaded with numbers 0 - 9. Replacement tapes available in a refill pack of ten (0 - 9) or individually in numbers, letters, symbols or colours.

Tape Rolls (Individual)

Legend	Order Code	Legend	Order Code	Legend	Order Code
0	146-4161	H	146-4180	X	146-4198
1	146-4162	I	146-4181	Y	146-4199
2	146-4163	J	146-4182	Z	146-4200
3	146-4165	K	146-4183	Earth	146-4201
4	146-4166	L	146-4184	-	146-4202
5	146-4167	M	146-4185	+	146-4203
6	146-4168	N	146-4186	Black	146-4204
7	146-4169	O	146-4187	Blue	146-4205
8	146-4170	P	146-4189	Brown	146-4207
9	146-4171	Q	146-4191	Grey	146-4208
A	146-4172	R	146-4192	Green	146-4209
B	146-4173	S	146-4193	Orange	146-4210
C	146-4174	T	146-4194	Purple	146-4211
D	146-4175	U	146-4195	Red	146-4212
E	146-4177	V	146-4196	White	146-4213
F	146-4178	W	146-4197	Yellow	146-4214
G	146-4179				

224112

Description	Order Code	1+	5+	10+
Empty Dispenser	146-4158			
Full Dispenser (0-9)	146-4159			
Dispenser Refill (PK10)	146-4160			
Markers	All Order Codes			



Self Laminating Label Dispensers supplied in a handy pocket sized plastic disposable dispenser.

- Each dispenser contains a roll of pre-cut Self Laminating labels for Wire, cable and pipe identification
- Each label has a white write on area for easy marking
- Special pad allows easy marking
- Marker dispenses automatically when the liner is pulled from base of unit
- On application, the mark is protected against mechanical influences by an over laminated adhesive lined transparent layer
- Temperature Range: -40°C to +120°C

Mftrs. List No.	Markers/Pack	Label Size WxH (mm)	Write-on area WxH (mm)	Wire Dia. Min/Max (mm)
WCD-318	300	19.0 x 31.8	19.0 x 7.95	2.54 - 7.62
WCD-476	150	19.0 x 47.6	19.0 x 12.7	5.08 - 10.16
WCD-762	90	19.0 x 76.2	19.0 x 19.0	5.08 - 17.78
WCD-1520	40	19.0 x 152.0	19.0 x 25.4	7.62 - 40.64
ZUB-01	Marker Pen			

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Mftrs. List No.	Order Code	1+	5+	10+
WCD-318	109-6791			
WCD-476	109-6792			
WCD-762	109-6793			
WCD-1520	109-6794			
ZUB-01	109-6796			

Q-Tie Identification Markers

HellermannTyton



Q-tags are used to identify a cable or a cable bundle and is secured with a Q-tie. The Q-tag's flag design allows the user to quickly read or scan the printed information. The tags can be marked by hand with a marker pen or with a printed adhesive label.

NEW

- Material: PA66
- Colour: Natural
- Operating temperature: -40°C to 85°C

Mftrs. List No.	Label Size	Strap Width Max.	Pack Qty	Order Code
QT7016R	70mm x 18mm	4.7mm	50	207-0766
QT7040R	70mm x 42mm	4.7mm	50	207-0767
QT7040S	70mm x 42mm	3.6mm	50	207-0768
QT10065R	100mm x 67mm	4.7mm	25	207-0769

647493

Mftrs. List No.	Pack Qty	Order Code	1+	5+	10+
QT7016R	50	207-0766			
QT7040R	50	207-0767			
QT7040S	50	207-0768			
QT10065R	25	207-0769			

RiteOn® Self Laminating Labels

HellermannTyton



Starter Pack Contents: RiteOn® Dispenser, Reel of R202 Labels, Black Marker Pen.

Material	Operating Temperature	Vinyl -40°C to +80°C	Curing Temperature Adhesive	From +10°C Acrylic
Mftrs. List No.	Colour	Bundle Diameter Min. Max.	Label Size	Pack Quantity
Starter Pack SPRO200-1401-WH	White	6.1mm 12.1mm	19.1 x 50.8mm	150
Filled Dispenser RO201-1401-WH	White	4.0mm 8.1mm	12.7 x 38.1mm	200
RO202-1401-WH	White	6.1mm 12.1mm	19.1 x 50.8mm	150
RO203-1401-WH	White	9.1mm 18.2mm	19.1 x 76.2mm	100
Dispenser Refill RO201REF-1401-WH	White	4.0mm 8.1mm	12.7 x 38.1mm	200
RO201REF-1401-RD	Red	4.0mm 8.1mm	12.7 x 38.1mm	200
RO201REF-1401-OG	Orange	4.0mm 8.1mm	12.7 x 38.1mm	200
RO201REF-1401-YE	Yellow	4.0mm 8.1mm	12.7 x 38.1mm	200
RO201REF-1401-GN	Green	4.0mm 8.1mm	12.7 x 38.1mm	200
RO201REF-1401-BU	Blue	4.0mm 8.1mm	12.7 x 38.1mm	200
RO202REF-1401-WH	White	6.1mm 12.1mm	19.1 x 50.8mm	150
RO202REF-1401-RD	Red	6.1mm 12.1mm	19.1 x 50.8mm	150
RO202REF-1401-OG	Orange	6.1mm 12.1mm	19.1 x 50.8mm	150

Mfrs.	Color	Bundle Diameter	19.1 x 50.8mm	Pack
RO202REF-1401-YE	Yellow	6.1mm	12.1mm	150
RO202REF-1401-GN	Green	6.1mm	12.1mm	150
RO202REF-1401-BU	Blue	6.1mm	12.1mm	150
RO203REF-1401-WH	White	9.1mm	18.2mm	100
RO203REF-1401-RD	Red	9.1mm	18.2mm	100
RO203REF-1401-OG	Orange	9.1mm	18.2mm	100
RO203REF-1401-YE	Yellow	9.1mm	18.2mm	100
RO203REF-1401-GN	Green	9.1mm	18.2mm	100
RO203REF-1401-BU	Blue	9.1mm	18.2mm	100

Mfrs. List No.	Pack Quantity	Order Code	1+	3+	10+
Starter Pack					
SPRO200-1401-WH	150	168-6478			
Filled Dispenser					
RO201-1401-WH	200	168-6479			
RO202-1401-WH	150	168-6480			
RO203-1401-WH	100	168-6481			
Dispenser Refill					
RO201REF-1401-WH	200	168-6482			
RO201REF-1401-RD	200	168-6484			
RO201REF-1401-OG	200	168-6485			
RO201REF-1401-YE	200	168-6486			
RO201REF-1401-GN	200	168-6487			
RO201REF-1401-BU	200	168-6488			
RO202REF-1401-WH	150	168-6477			
RO202REF-1401-RD	150	168-6489			
RO202REF-1401-OG	150	168-6490			
RO202REF-1401-YE	150	168-6494			
RO202REF-1401-GN	150	168-6496			
RO202REF-1401-BU	150	168-6497			
RO203REF-1401-WH	100	168-6498			
RO203REF-1401-RD	100	168-6499			
RO203REF-1401-OG	100	168-6500			
RO203REF-1401-YE	100	168-6491			
RO203REF-1401-GN	100	168-6492			
RO203REF-1401-BU	100	168-6493			

Self-Laminating Marker Dispenser Kits



H=64 W=35 D=110

- Self-laminating write-on cable markers
- Manufactured in transparent self adhesive vinyl film with white marker area
- Kits include a blue polypropylene dispenser, roll of markers and a fine tip indelible black nylon marker pen
- Replacement pens and refill markers available

- Easy to use, simply write on white area, remove from dispenser and wrap around cable overlapping the white area providing an easy to clean, easy to read, permanent cable marking

Operating temperature	-40°C +66°C	Minimum application temperature	+4°C	
Max Cable Dia. 7.03	Order Code	Mfrs. List No.	Write on Area	Markers Per Roll
Kit	117-9861	S100X125VARY	L 9.65 x W 25.4	200
Refill	117-9863	S100X125VAFY	L 9.65 x W 25.4	200
Black Marker Pen	117-9865	PFX-0	—	—
Max Cable Dia. 12.13	Order Code	Mfrs. List No.	Write on Area	Markers Per Roll
Kit	117-9862	S100X225VARY	L 19.05 x W 25.4	100
Refill	117-9864	S100X225VAFY	L 19.05 x W 25.4	100
Black Marker Pen	117-9865	PFX-0	—	—

208302/438874

Order Code	Price Each
Dispenser Kits	1+ 5+ 10+
117-9861	
117-9862	
Refills	
117-9863	
117-9864	
Black Marker Pen	1+ 12+ 24+
117-9865	

Pre-Printed Wire Marker Books



- Convenient, pocket-sized pre-assembled book
- Markers are perforated and can be torn in half to mark both ends of conductors
- Terminal block markers are included to properly identify connectors
- Indoor/outdoor rated; conformable material with repositionable adhesive allows label to be removed and reused or used in temporary applications; provides durability, high temperature resistance, and dimensional stability for rough or textured surfaces; resists oil and abrasion.

- Suitable for temperature ranges of -46°C to 77°C
- 10 pages of markers per book. White background, black text
- Material: GMC1 Vinyl Cloth (UL Recognised)
- Full size marker - 5.6mm x 34.9mm. Maximum wire O.D. 9.5mm
- Half size marker - 5.6mm x 17.4mm. Maximum wire O.D. 4.7mm
- Terminal block marker - 5.6mm x 6.3mm

Mfrs. List No.	No of Markers
PCMB-1	45 each 0 to 9
PCMB-2	10 each A thru Z, 0 to 15, +, -, /
PCMB-4	150 each 1, 2, 3
PCMB-5	150 each A, B, C
PCMB-8	6 each 1 thru 15 4 each 16 thru 19 2 each A thru Z, +, -, /, 0
PCMB-14	10 each 46 thru 90
PCMB-15	10 each 1 thru 45 15 each 0, +, -
PCMB-16	10 each 0 to 33, A, B, C, +, -, L1, L2, L3, T1, T2, T3

643343

Mfrs. List No.	Order Code	1+	5+	10+
PCMB-1	206-3573			
PCMB-2	206-3574			
PCMB-4	206-3575			
PCMB-5	206-3576			
PCMB-8	206-3577			
PCMB-14	206-3579			
PCMB-15	206-3581			
PCMB-16	206-3582			

Write On Pocket Packs



These pocket packs are suitable for on-the-spot labelling. Available in the most common label sizes, they can be written on using the recommended pen 109-6796

- Material - Self adhesive Vinyl-impregnated yellow fabric
- Thickness 0.15mm
- Temperature range -30°C to 80°C
- Designed to withstand exposure to oil, solvents, salts and water

Order Code	Border	Dimensions H x W (mm)	Labels per Pack
114-6689	With	11 x 19	440
114-6690	With	11 x 38	220
114-6691	Without	8 x 21	640
114-6692	Without	9 x 14	840

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Dimensions H x W (mm)	Order Code	Price/Pack
11 x 19	114-6689	1+ 5+
11 x 38	114-6690	
8 x 21	114-6691	
9 x 14	114-6692	
Marker Pen	109-6796	

Self Laminating Labels



These labels have a white laser printable area, which is over-laminated upon application via a clear polyester film with a permanent acrylic adhesive liner.

- Clear overlap protects legend from exposure to oil, solvents, salts and water
- Can be flagged around wire rather than wrapped
- Temperature range -30°C to 120°C

Label Height	Cable dia. Min	Cable dia. Max	Labels per Pack	Order Code
26.7mm	0.25mm	3mm	160	114-6661
33.9mm	0.25mm	5mm	88	114-6662
33.9mm	0.25mm	5mm	64	114-6663
55mm	0.25mm	11mm	40	114-6664
69mm	0.25mm	14mm	32	114-6665
69mm	0.25mm	13mm	24	114-6666
93mm	0.25mm	19mm	18	114-6667
140mm	0.25mm	34mm	12	114-6669

Self Laminating Labels - continued

446614.435230

Cable Diameter	Labels Per Pack	Order Code	Price/Pack	
			1+	5+
0.25mm - 3mm	160	114-6661		
0.25mm - 5mm	88	114-6662		
0.25mm - 5mm	64	114-6663		
0.25mm - 11mm	40	114-6664		
0.25mm - 14mm	32	114-6665		
0.25mm - 13mm	24	114-6666		
0.25mm - 19mm	18	114-6667		
0.25mm - 34mm	12	114-6669		

Cable Markers Identification Tags

HellermannTyton



- Cable identification tags manufactured in Natural Nylon 66
- Can be attached to a cable or group of cables using two cable ties
- Marking can be carried out using hot foil printing or an indelible marking pen

219628

100 Per Pack	Order Code	Price Per Pack			
		1+	5+	10+	25+
Identification Tags	116-9004				

Black Marker Pen	305-3570	Price Each			
		1+	5+	10+	25+

Marker Plate

pro-POWER



- Manufacturer from White Nylon
- Used to mark cable bundles for permanent identification

549861

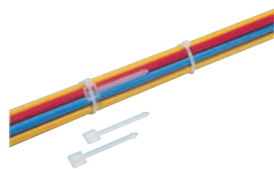
Mfrs. List No.	Marker Size	Thickness	Order Code
MT-1	26 x 15.2mm	1.2mm	177-3444
MT-2	42.2 x 21.2mm	1.2mm	177-3445
MT-3	60.8 x 25.2mm	1.2mm	177-3447
MT-4	62.2 x 51.5mm	1.2mm	177-3448

Mfrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	25+
MT-1	177-3444				
MT-2	177-3445				
MT-3	177-3447				
MT-4	177-3448				

Arrow Tags

HellermannTyton

Marker Carrier Tags for Cable Identification



Arrow tags are suitable for rapid marking. They can be used regardless of the bundle diameter, as they can be fixed using cable ties of any length (width up to 7.4mm). The AT tags can be fitted with Ovalgrip cable markers. The tags can either be written manually using marker pens or fitted with the appropriate markers.

- AT1 will fit 8 size 85 Ovalgrip markers
- AT3 will fit 14 size 85 Ovalgrip markers

Material: Polyvinyl-chloride (PVC)
 Colour: Black (BK) or Natural (NA)
 Operating Temperature: -40°C to +85°C continuous (+105°C for 500 hours)
 Flammability: UL94 V2

550580

100 Per Pack	Mfrs. List No.	Size	Colour	Order Code	Price Per Pack		
					1+	5+	10+
	AT1 NA	62.5 x 4.7mm	Natural	177-4264			
	AT2 NA	63 x 9mm	Natural	177-4265			
	AT3 BK	100 x 9mm	Black	177-4266			
	AT3 NA	100 x 9mm	Natural	177-4267			

Protective Cable Clip, Tie-ons and Legends



These cable clips are designed for the identification of wires in rough, damp and dusty environments. The legend strip can be marked by hand or laser printer then embedded in the cable clip for all-round protection. The cable clips are fastened on using cable ties.

- All legends are white on one side, yellow on the other
- Abrasion resistant clips
- Temperature range -26°C to 130°C

	Order Code Legend	Dimensions H x W (mm)	Legends per Pack	To fit order code
	114-6672	6.2 x 30	240	1146675
	114-6673	6.2 x 64	120	1146676
Cable Tie Width	Order Code Clip	Dimensions H x W (mm)	Clips per Pack	To fit order code
9 mm	114-6674	44 x 21	25	1146670
6 mm	114-6675	34 x 10.5	25	1146672
5 mm	114-6676	68 x 10.5	25	1146673

446611.435456

Legend	Dimensions H x W (mm)		Order Code		Price/Pack	
	1+	5+	1+	5+		
6.2 x 30	114-6672					
6.2 x 64	114-6673					
Clip	44 x 21	114-6674				
	34 x 10.5	114-6675				
	68 x 10.5	114-6676				

Cable Marker Strap

PANUIT



- For identifying and coding telephone and fibre optic cable
- Replaces costly and cumbersome lead marking tags
- Lightweight and easy to install
- Can be used as wrap-around or flag marker

Colour, Legend	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Order Code
Red	387	19.1	111	101-5596
Grey	387	19.1	111	101-5597

419702/436609

Mfrs. List No.	Order Code	Price Per Pack	
		1+	3+
CM4S-L2	101-5596		
CM4S-L8	101-5597		

Marker Plates

PANUIT



- Available in White Nylon 6.6 or Black Weather Resistant Nylon 6.6
- Install as flags, tags, or wrap-around identification plates to clearly identify all wire harnesses
- Use with nylon marking pens for an easy and economic alternative to identify wire harnesses
- Easy feed cable tie slot
- Max. Bundle Diameter of 4.8mm
- Supplied in Packs of 100

524535

Mftrs. List No.	Colour	Length (mm)	Width (mm)	Order Code	1+	5+	10+
MP150-C	White	38.1	19	165-7342			
MP150-C0	Black	38.1	19	165-7344			
MP200-C	White	50.8	19	165-7346			
MP200-C0	Black	50.8	19	165-7347			
MP250-C	White	63.5	19	165-7348			
MP250-C0	Black	63.5	19	165-7349			
MP250W175-C	White	63.5	44.5	165-7350			
MP350-C	White	88.9	19	165-7351			
MP350-C0	Black	88.9	19	165-7352			

Permanent Markers

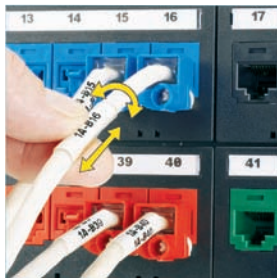


- Fast drying, permanent ink - legible identification on nylon
- Used with marker ties, write-on labels and tags, where ordinary marking pens will not work

524543

Mftrs. List No.	Colour	Tip Type	Order Code	1+	5+	10+
PFX-0	Black	Fine	117-9865			
PFX-2	Red	Fine	165-7353			
PX-0	Black	Regular	165-7354			
PX-2	Red	Regular	165-7356			
PX-10	White	Regular	165-7357			

Turn-Tell™ Labels



Panduit innovative Turn-Tell™ Labels provide a unique identification solution to meet the application needs of data centers, industrial automation, and other structured cabling infrastructures. These new pressure-sensitive, self-laminating labels improve visibility, placement, aesthetics, and flexibility of the labeling application. The labels are unique because they can rotate on the wire/cable after installation to allow visibility from any angle. In addition, they allow repositioning along the length of the cable which further improves ease of installation and flexibility in high density or space restrained applications. Installers will save time and material by

being able to reposition the label after pulling the wire/cable and cutting it to final length for termination.

- Innovative design allows label to be moved after installation
- Wrap-around wire/cable label
- Perforated adhesive backed anchor
- On-demand labeling solution
- Thermal transfer print technology

Mftrs. List No.	Label Size	Min. Cable Dia.	Max. Cable Dia.	Wire/Cable Size
Labels on Rolls for Use with Easy-Mark™ Labeling Software and Desktop Thermal Transfer Printers				
R100X075V1T	25.4 x 19.1mm	3mm	4mm	18 - 14 AWG
R100X125V1T	25.4 x 31.8mm	4.1mm	5.6mm	12 - 10 AWG
R100X150V1T	25.4 x 38.1mm	5.6mm	7.1mm	Cat 5/5e/6
R100X225V1T	25.4 x 57.2mm	7.1mm	9.9mm	8 - 4 AWG
R100X400V1T	25.4 x 101.6mm	9.9mm	24.1mm	2 AWG - 250 MCM
R200X225V1T	50.8 x 57.2mm	7.1mm	9.9mm	8 - 4 AWG
R200X400V1T	50.8 x 101.6mm	9.9mm	24.1mm	2 AWG - 250 MCM
P1™ Label Cassettes for Use with the LS8E and LS8EQ Hand-Held Thermal Transfer Printers				
R100X075V1C	25.4 x 19.1mm	3.1mm	4.1mm	18 - 14 AWG
R100X125V1C	25.4 x 31.8mm	4.1mm	5.6mm	12 - 10 AWG
R100X150V1C	25.4 x 38.1mm	5.6mm	7.1mm	Cat 5/5e/6
R100X225V1C	25.4 x 57.2mm	7.1mm	9.9mm	8 - 4 AWG

610324

Mftrs. List No.	Pack Qty	Order Code	1+	5+	10+
Labels on Rolls for Use with Easy-Mark™ Labeling Software and Desktop Thermal Transfer Printers					
R100X075V1T	2500	182-6677			
R100X125V1T	2500	182-6678			
R100X150V1T	2500	182-6679			
R100X225V1T	2500	182-6680			
R100X400V1T	1000	182-6681			
R200X225V1T	1000	182-6683			
R200X400V1T	1000	182-6684			
P1™ Label Cassettes for Use with the LS8E and LS8EQ Hand-Held Thermal Transfer Printers					
R100X075V1C		182-6685			
R100X125V1C		182-6686			
R100X150V1C		182-6687			
R100X225V1C		182-6688			

Self-Laminating Labels



- Labels can be printed in both laser and ink jet printers
- Self-laminating adhesive labels include a colored print-on area and clear overlaminate

- White self-laminating polyolefin labels

Mftrs. List No.	Length (mm)	Width (mm)	Use With LABELCORE Sleeves	Labels Per Card	Max Cable Diameter (mm)
S100X160YAJ	40.64	25.4	NWSLC-2, NWSLC-3	48	6.35
S100X220YAJ	55.88	25.4	NWSLC-7	32	8.89

Mftrs. List No.	Order Code	1+	5+	10+
S100X160YAJ	165-7317			
S100X220YAJ	165-7319			

524521

Mftrs. List No.	Pack Qty.	Order Code	1+	5+	10+
S100X160YAJ	2500	171-3527			
S100X220YAJ	1000	171-3529			

Fibre Optic Sleeves



- Provides a larger labeling surface on small cables allowing legends to be clearly seen
- Sleeve is made of flexible PVC material
- Flame retardant
- Locate sleeve on straight section of cable at least 2.00" from fiber boot
- Operating Temperature: -24°C to 75°C

524519

Mftrs. List No.	Size (mm)	Cable Type	Order Code	1+	5+	10+
NWSLC-2Y	2	Simplex	165-7314			
NWSLC-3Y	3	Simplex	165-7315			
NWSLC-7Y	3	Duplex	165-7316			

Cable Labelling Solutions

A wide range of practical and highly durable labelling solutions are available below. These are designed to save time, reduce wastage and no special equipment is needed - print with standard office laser printer.

There are 3 different types:

- Tie-on cable labels supplied in pre-perforated A4 sheets. Depending on the size chosen, up to 60 labels can be printed in 15 seconds, using a standard office laser printer.
- 2 part wire marking system, incorporating a clear plastic tube with 2 holes one for the label and one for the wire. There are many advantages with this system, including the ability to change the ident after installation without cutting off the wire. Depending on the size chosen, up to 75 idents can be printed in 15 seconds, using a standard office laser printer.
- Self laminating labels, these labels wrap-around the cable and cover the print with a clear laminate, depending on the size chosen, up to 80 labels can be printed in 15 seconds, using a standard office laser printer.

Use a spreadsheet or word document to produce these labels or take advantage of the free Standard version of Labacus Innovator labelling software downloadable from www.silfox.com which includes FOC 6 individual days trial of the Advanced software.

536306

Self Laminating Labels



- No special equipment needed - print direct to any standard office laser printer
- The label wraps around itself to self-laminate and protect the print
- Saves you time - print up to 90 labels in 15 seconds
- Labels are manufactured from durable polyester

Use a spreadsheet or word document to produce these labels or take advantage of the free Standard version of Labacus Innovator labelling software downloadable from www.silfox.com which includes FOC 6 individual days trial of the Advanced software.

Using a colour laser printer you can print colour background/text or Resistor Colour Coding. These options can be selected within the Labacus Innovator Advanced software.

Mftrs. List No.	Cable OD	Printable Area	Labels per Sheet	Colour
P05/2508LW	4mm - 5mm	25mm x 8mm	80	White
P08/2512LW	4mm - 8mm	25mm x 12mm	48	White
P08/5012LW	4mm - 8mm	50mm x 12mm	24	White

535239

Mftrs. List No.	Pack Qty	Order Code	1+	5+	10+
P05/2508LW	10	170-4543			
P08/2512LW	10	170-4544			
P08/5012LW	10	170-4545			

Cable Markers



Pre-perforated labels produced on special plastic A4 sheets. Available in 3 sizes. Once printed simply fold the sheet along the perforations, remove the labels and then fix to cable with industry standard cable ties.

- No special equipment needed - print direct to any standard office laser printer
- Labels are manufactured from durable polyester
- Saves time - print up to 60 labels in 15 seconds

Use a spreadsheet or word document to produce these labels or take advantage of the free Standard version of Labacus Innovator labelling software downloadable from www.silfox.com which includes FOC 6 individual days trial of the Advanced software.



Mftrs. List No.	Label Dimensions	Labels per Sheet	Pack Qty	Order Code	Price Per Pack
LS6013LY	60mm x 13mm	60	10	170-4532	1+ 5+ 10+
LM9013LY	90mm x 13mm	40	10	170-4533	1+ 5+ 10+
LXL9020LY	90mm x 20mm	24	10	170-4534	1+ 5+ 10+

2 Part Labelling System



This two-part solution is designed to label small cables and cores. Simply slide your cable/core into one part of the clear plastic sleeve, then using the special tail, pull the ident marker into the other part. The ident markers are easy to change post-installation without cutting or disconnecting the cable or core - just remove the old marker then pull a new marker into the plastic sleeve.

- No special equipment needed - print direct to any standard office laser printer
- Labels are manufactured from durable polyester
- Saves time - print up to 75 labels in 15 seconds

Use a spreadsheet or word document to produce these labels or take advantage of the free Standard version of Labacus Innovator labelling software downloadable from www.silfox.com which includes FOC 6 individual days trial of the Advanced software.



Mftrs. List No.	Dimensions	Labels per Sheet	Colour
L75/20L	5mm x 20mm	75	White
L45/30L	5mm x 30mm	45	White

Mftrs. List No.	Length	Insulation OD	Ø
LT/1-2/20	20mm	1.2mm	2.5mm
LT/1-2/30	30mm	1.2mm	2.5mm
LT/2-4/20	20mm	2.5mm	4mm
LT/2-4/30	30mm	2.5mm	4mm
LT/3-5/20	20mm	3mm	5mm
LT/3-5/30	30mm	3mm	5mm

Mftrs. List No.	Pack Qty	Order Code	Price Per Pack
L75/20L	10	170-4530	1+ 5+ 10+
L45/30L	10	170-4531	1+ 5+ 10+

Mftrs. List No.	Pack Qty	Order Code	Price Per Pack
LT/1-2/20	1000	170-4535	1+ 5+ 10+
LT/1-2/30	1000	170-4536	1+ 5+ 10+
LT/2-4/20	1000	170-4537	1+ 5+ 10+
LT/2-4/30	1000	170-4538	1+ 5+ 10+
LT/3-5/20	1000	170-4541	1+ 5+ 10+
LT/3-5/30	1000	170-4542	1+ 5+ 10+

TE3124 Marker Sleeve and Label Printer



The TE3124 thermal transfer printer is a new high performance, mid-range printer series designed for use with the full range of Tyco Electronics identification marker sleeves, cable markers and thermal transfer labels. The 600 dpi print head produces outstanding quality text, barcodes and graphic images. This light weight, high print accuracy printer replaces the Tyco Electronics T300, T400, TTD and TTP series printers.

NEW

- Approved to print entire range of Tyco Electronics thermal transfer identification products
- Ships with standard 600 dpi print head producing outstanding print quality and bar code clarity
- Light weight with small foot print
- Prints both small and large label with precision, ideal for small labels and 2.4 sized marker sleeves
- Simple ribbon and media loading procedure with automatic calibration
- Lower price than existing T312M printer

Print Speed	Max 100mm/s (recommended 30mm/s)
Print Width Max.	105.6 mm
Printing Method	600 dpi Thermal Transfer
Label Height Min.	5 mm
Print Density	0-20 (recommended 20)
Electrical Requirements	100 to 240V AC, 50/60Hz, automatic switching
	Energy consumption 250W max
Physical Characteristics	Depth : 446mm
	Height : 274mm
	Width : 242mm
	Weight : 9 kg
Interfaces	Serial RS 232 C 1.200 up to 230.400 Baud/8 Bit
	USB 2.0 High Speed Slave for PC-connection
	Ethernet 10/100 Base T, LPD, RawIP-Printing, DHCP, HTTP, FTP, SMTP, SNMP, NTP
Memory	64MB RAM 8GB ROM MB Flash Memory

609543

Mftrs. List No.	Order Code	Price Each
TE3124-PRINTER	182-2358	1+ +

Cable Marker Tags



Military Grade



- Highly flame-retardant
- Highly resistant to abrasion, mechanical abuses, fluids, lubricants and solvents
- Side entry provides access to big size and wire bundles as well as retrofit and repair capability
- Easy installation: only standard cable tie-wraps are needed to install markers. No extra steps required
- Excellent print permanence when printing on the rough side of the marker

NEW

Mftrs. List No.	Size	Label Size	Recommended Bundle Dia.
CM-SCE-TP-1/4-4H-9	¼	6.4 x 50.8mm	5.08mm - 12.5mm
CM-SCE-TP-1/2-4H-9	½	12.7 x 50.8mm	12.5mm and up

609542

Mftrs. List No.	Order Code	Price Per Pack
CM-SCE-TP-1/4-4H-9	182-2351	1+ 5+ 10+
CM-SCE-TP-1/2-4H-9	182-2352	1+ 5+ 10+

BMP™71 Label Printer



- Large full colour graphic LCD screen
- Thermal transfer printing mechanism - 300 dpi
- High print speed of 38 mm/sec
- Weight : 2.5kg (w/battery)
- Handle to easily carry the printer anywhere you need it
- Built in industrial label cutter
- Print width 46 mm - Print length up to 1016 mm
- Stand alone or PC connectivity via USB
- Durable hard carry case

- Operating temperature range: 4°C to 49°C
- Adjustable to six different widths of labels
- Can print up to 25 lines per label
- Batch label printing or print multiple copies of one label
- Ability to serialise data
- Prints mirror image
- Built-in Smart Cell Technology in labels and ribbons
- Ability to store, retrieve and delete label files
- Built in time/date stamp
- Rechargeable Battery and AC power/battery charger
- UL and CUL listed battery charger Symbols & Barcodes
- Barcode symbologies: Code 39 and Code 128
- Over 500 built in graphics

NEW

Mftrs. List No.	Colour	Ribbon Width (mm)	Ribbon Length (m)	Special Property
M71-R6000	Black	50.8	46	High density ribbon with excellent solvent resistance, high heat resistance, and super scratch resistance.
M71-R4300	Black	50.8	46	Strong environmental resistance against smearing and chemicals. Reliable, sharp-edge print quality to maximize bar code readability.
M71-R6200	Black	50.8	46	Designed for harsh environment labeling applications. Superior abrasion, chemical and heat resistance.
M71-R4400-WT	White	50.8	46	High density ribbon with excellent solvent resistance, high heat resistance, and super scratch resistance.
M71-R6900-RD	Red	50.8	46	High density ribbon with excellent solvent resistance, high heat resistance, and super scratch resistance.
M71-R6900-BL	Blue	50.8	46	High density ribbon with excellent solvent resistance, high heat resistance, and super scratch resistance.
M71-R6900-GN	Green	50.8	46	High density ribbon with excellent solvent resistance, high heat resistance, and super scratch resistance.
M71-R6900-MA	Magenta	50.8	46	High density ribbon with excellent solvent resistance, high heat resistance, and super scratch resistance.
M71-R6900-YL	Yellow	50.8	46	High density ribbon with excellent solvent resistance, high heat resistance, and super scratch resistance.
M71-R6400	Black	50.8	46	High density ribbon with excellent solvent resistance, high heat resistance, and super scratch resistance.
M71-R6600	Black	50.8	46	High density ribbon with excellent solvent resistance, high heat resistance, and super scratch resistance.
M71-R6800-WT	White	50.8	46	Strong environmental resistance against smearing and chemicals. Reliable, sharp-edge print quality to maximize bar code readability.

Kit Contents: Printer, Hard Carry Case, 2 Label Rolls, 1 Black Ribbon Cartridge, Rechargeable Battery Pack, AC Adaptor, USB Communications Cable, TLS2200® / HandiMark™ Material Roll Adaptor, Quick Start Guide, Product CD (w/ Printer Driver, Tutorials, Full User's Guide), Cleaning Kit.

Mftrs.		Price Each
List No.	Keyboard	Order Code
BMP71-QWERTY-UK	QWERTY	181-5518
BMP71-QWERTY-EU	QWERTY	181-5521
BMP71-AZERTY-EU	AZERTY	181-5522
BMP71-QWERTZ-EU	QWERTZ	181-5523
BMP71-CYRILLIC-EU	CYRILLIC	181-5524

Mftrs.		Price Each
List No.	Description	Order Code
M71-SC	Soft Carry Case	181-5525
M71-HC	Hard Carry Case	181-5526
M71-ADAPT	Roll Adaptor For TLS/HM	181-5527
M71-CLEAN	Cleaning Kit	181-5528
M71-BATT	Spare Battery	181-5529
M71-AC-UK	Mains Adaptor (UK)	181-5530
M71-AC-EU	Mains Adaptor (Euro)	181-5531
M71-QC-UK	Quick Charger (UK)	181-5533
M71-QC-EU	Quick Charger (Euro)	181-5534

Mftrs.		Price Each
List No.	Colour	Order Code
M71-R6000	Black	181-5535
M71-R4300	Black	181-5536
M71-R6200	Black	181-5537
M71-R4400-WT	White	181-5538
M71-R6900-RD	Red	181-5539
M71-R6900-BL	Blue	181-5540
M71-R6900-GN	Green	181-5541
M71-R6900-MA	Magenta	181-5542
M71-R6900-YL	Yellow	181-5543
M71-R6400	Black	181-5545
M71-R6600	Black	181-5546
M71-R6800-WT	White	181-5547

Labels

Heat-Shrink Sleeve Markers

- 3:1 Shrink ratio
- Self-extinguishing,
- Meets requirements of SAE AMS-DTL-23053/5 Class 1, SAE-AS-81531, MIL-STD-202 method 215K
- UL224 recognised

Mftrs.	Sleeves	Label	Wire Diameter
List No.	Per Roll	Colour Size A x B	Min. Max.
M71-94-1-342	100	White 25.78 x 4.62mm	0.58mm 2.03mm
M71-125-1-342	100	White 25.78 x 5.97mm	2.79mm 1.17mm
M71-125-1-342YL	100	Yellow 25.78 x 5.97mm	2.79mm 1.17mm
M71-125-175-342	100	White 44.83 x 5.97mm	2.79mm 1.17mm
M71-187-1-342	100	White 25.78 x 8.51mm	3.81mm 1.57mm
M71-187-1-342YL	100	Yellow 25.78 x 8.51mm	3.81mm 1.57mm
M71-250-1-342	100	White 25.78 x 11.15mm	5.46mm 2.39mm
M71-375-1-342	100	White 25.78 x 16.38mm	8.13mm 3.18mm
M71-375-1-342YL	100	Yellow 25.78 x 16.38mm	8.13mm 3.18mm

Polyethylene Tear Resistant Cable Markers

- Provides extreme tear resistance and excellent cold-weather performance
- Meets requirements of DIN VDE 0472/parts 815
- For use with cable bundles, power and ground cables

Mftrs.	Tags	Label	Write-on
List No.	Per Roll	Colour Size A x B	Area W x H
M71-12-109	100	White 19.05 x 76.2 mm	17.78 x 52.07mm

Vinyl Self-Laminating Labels

- Resistant to water, oil, solvents and abrasion

Mftrs.	Labels	Label	Write-on	Wire Diameter
List No.	Per Roll	Colour Size A x B	Area W x H	Min. Max.
M71-18-427	250	White 19.05 x 24.4mm	19.05 x 9.53mm	3mm 5mm
M71-19-427	250	White 25.4 x 25.4 mm	25.4 x 9.53mm	3mm 5mm
M71-23-427	100	White 25.4 x 101.6 mm	101.6 x 25.4mm	8mm 24mm
M71-31-427	250	White 25.4 x 38.1 mm	38.1 x 12.7mm	4mm 8mm
M71-32-427	250	White 38.1 x 38.1 mm	38.1 x 12.7mm	4mm 8mm
M71-33-427	100	White 38.1 x 101.6 mm	101.6 x 25.4mm	8mm 24mm
M71-34-427	50	White 38.1 x 152.4 mm	152.4 x 38.1mm	12mm 36mm

Vinyl Indoor/Outdoor Label

- Brady's indoor/outdoor grade vinyl tape adheres well to pipes, walls, equipment, windows - most clean, dry surfaces.
- Conforms well to irregular, curved or rough surfaces - it even stands up to grease, oil and most industrial chemicals.
- Five year average outdoor durability in temperatures from 82°C to -40°C, can be applied as low as -18°C

Mftrs.	Colour	Label Size A x B	Mftrs.	Colour	Label Size A x B
M71C-500-580-CL	Clear	12.7 mm x 15.24 m	M71C-1000-580-GN	Green	25.4 mm x 15.24 m
M71C-500-580-RD	Red	12.7 mm x 15.24 m	M71C-1000-580-OR	Orange	25.4 mm x 15.24 m
M71C-500-580-WT	White	12.7 mm x 15.24 m	M71C-1000-580-RD	Red	25.4 mm x 15.24 m
M71C-500-580-YL	Yellow	12.7 mm x 15.24 m	M71C-1000-580-WT	White	25.4 mm x 15.24 m
M71C-1000-580-BL	Blue	25.4 mm x 15.24 m	M71C-1000-580-YL	Yellow	25.4 mm x 15.24 m
M71C-1000-580-CL	Clear	25.4 mm x 15.24 m	M71C-2000-580-BL	Blue	50.8 mm x 15.24 m

Mftrs.	Colour	Label Size A x B	Mftrs.	Colour	Label Size A x B
M71C-2000-580-CL	Clear	50.8 mm x 15.24 m	M71C-2000-580-RD	Red	50.8 mm x 15.24 m
M71C-2000-580-GN	Green	50.8 mm x 15.24 m	M71C-2000-580-WT	White	50.8 mm x 15.24 m
M71C-2000-580-GY	Grey	50.8 mm x 15.24 m	M71C-2000-580-YL	Yellow	50.8 mm x 15.24 m

Vinyl Repositionable Label

- Special adhesive allows easy removal of label to re-apply again and again
- Best choice for indoor marking where frequent repositioning is required, such as shelves

Mftrs.	Colour	Label Size A x B
List No.		
M71C-2000-581-YL	Yellow	50.8 x 15.24 mm

EPREP Labels - Engraved Plate Replacement Labels

EPREP labels are innovative labels specifically designed to replace engraved and plotted plates for identification of electrical components, electrical cabinets, push buttons, patch panels etc.

- Polyethylene Foam Laminate

Mftrs.	Tags	Label	Diameter	Format
List No.	Per Roll	Colour Size A x B	Size D	
M71EP-1-7593-SL	250	Silver 27 x 8mm		Roll
M71EP-1-7593-WT	250	White 27 x 8mm		Roll
M71EP-2-7593-SL	250	Silver 27 x 12.5mm		Roll
M71EP-2-7593-WT	250	White 27 x 12.5mm		Roll
M71EP-3-7593-SL	150	Silver 27 x 15mm		Roll
M71EP-3-7593-WT	150	White 27 x 15mm		Roll
M71EP-4-7593-SL	150	Silver 27 x 18mm		Roll
M71EP-4-7593-WT	150	White 27 x 18mm		Roll
M71EP-5-7593-BK	100	Black 30 x 40mm	24mm	Fanfolded
M71EP-5-7593-GN	100	Green 30 x 40mm	24mm	Fanfolded
M71EP-5-7593-RD	100	Red 30 x 40mm	24mm	Fanfolded
M71EP-5-7593-SL	100	Silver 30 x 40mm	24mm	Fanfolded
M71EP-5-7593-WT	100	White 30 x 40mm	24mm	Fanfolded
M71EP-5-7593-YL	100	Yellow 30 x 40mm	24mm	Fanfolded
M71EP-6-7593-SL	100	Silver 35 x 18mm		Roll
M71EP-6-7593-WT	100	White 35 x 18mm		Roll
M71EP-7-7593-SL	100	Silver 35 x 18mm		Roll
M71EP-7-7593-WT	100	White 35 x 18mm		Roll
M71EP-8-7593-SL	125	Silver 48 x 19mm		Roll
M71EP-8-7593-WT	125	White 48 x 19mm		Roll

Polypropylene Fibre Optic Labels/Flags

Mftrs.	Labels	Label	Application
List No.	Per Roll	Size A x B	Fibre Strand
M71FP-1-425	250	30 x 20mm	Fibre Strand
M71FT-1-425	250	30 x 20mm	Fibre Strand

Permanent White Polyester Labels

Mftrs.	Labels	Label	Mftrs.	Labels	Label
List No.	Per Roll	Size A x B	List No.	Per Roll	Size A x B
M71-6-423	750	12.7 x 6.99mm	M71-17-423	500	25.4 x 12.7mm
M71-15-423	750	25.4 x 6.99mm	M71-29-423	500	38.1 x 12.7mm

Mftrs.	Price Per Roll
List No.	Order Code
	1+ 5+ 10+

Mftrs.	Order Code	Price Per Roll
Heat-Shrink Sleeve Markers		
M71-94-1-342	181-7792	
M71-125-1-342	181-7793	
M71-125-1-342YL	181-7794	
M71-125-175-342	181-7795	
M71-187-1-342	181-7797	
M71-187-1-342YL	181-7798	
M71-250-1-342	181-7799	
M71-375-1-342	181-7800	
M71-375-1-342YL	181-7801	

Mftrs.	Order Code	Price Per Reel
Polyethylene Tear Resistant Cable Markers		
M71-12-109	181-7803	

Mftrs.	Order Code	Price Per Reel
Vinyl Self-Laminating Labels		
M71-18-427	181-7804	
M71-19-427	181-7805	
M71-23-427	181-7806	
M71-31-427	181-7807	
M71-32-427	181-7808	
M71-33-427	181-7809	
M71-34-427	181-7810	

Mftrs.	Order Code	Price Per Reel
Vinyl Indoor/Outdoor Label		
M71C-500-580-CL	181-7811	
M71C-500-580-RD	181-7812	
M71C-500-580-WT	181-7813	
M71C-500-580-YL	181-7815	
M71C-1000-580-BL	181-7816	
M71C-1000-580-CL	181-7817	
M71C-1000-580-GN	181-7818	
M71C-1000-580-OR	181-7819	
M71C-1000-580-RD	181-7820	
M71C-1000-580-WT	181-7821	
M71C-1000-580-YL	181-7822	
M71C-2000-580-BL	181-7823	
M71C-2000-580-CL	181-7824	
M71C-2000-580-GN	181-7825	
M71C-2000-580-GY	181-7827	
M71C-2000-580-RD	181-7828	
M71C-2000-580-WT	181-7829	
M71C-2000-580-YL	181-7830	

Labels - continued

Permanent White Polyester Labels - continued

Mfrs. List No.	Order Code	1+	5+	10+
Vinyl Repositionable Label				
M71C-2000-581-YL	181-7831			
EPREP Labels				
Price Per Roll				
M71EP-1-7593-SL	181-7832			
M71EP-1-7593-WT	181-7833			
M71EP-2-7593-SL	181-7834			
M71EP-2-7593-WT	181-7835			
M71EP-3-7593-SL	181-7836			
M71EP-3-7593-WT	181-7837			
M71EP-4-7593-SL	181-7839			
M71EP-4-7593-WT	181-7841			
M71EP-5-7593-BK	181-7842			
M71EP-5-7593-GN	181-7843			
M71EP-5-7593-RD	181-7844			
M71EP-5-7593-SL	181-7845			
M71EP-5-7593-WT	181-7846			
M71EP-5-7593-YL	181-7847			
M71EP-6-7593-YL	181-7848			
M71EP-7-7593-SL	181-7849			
M71EP-7-7593-WT	181-7850			
M71EP-7-7593-YL	181-7852			
M71EP-8-7593-SL	181-7853			
M71EP-8-7593-WT	181-7854			
Polypropylene Fibre Optic Labels/Flags				
M71FP-1-425	181-7855	●		
M71FT-1-425	181-7856	●		
Permanent White Polyester Labels				
M71-6-423	181-7857	●		
M71-15-423	181-7858	●		
M71-17-423	181-7859	●		
M71-29-423	181-7860	●		



Mfrs. List No.	Colour	Material	Label Width (mm)	Label Length (m)	Order Code
Self-Laminating					
M21-375-499	Black on White	Nylon Cloth	9.53	4.8	177-9572
M21-500-499	Black on White	Nylon Cloth	12.7	4.8	177-9573
M21-750-499	Black on White	Nylon Cloth	19.05	4.8	177-9574
M21-500-430	Black on Clear	Polyester	12.7	6.4	177-9575
M21-500-488	Black on White	Polyester	12.7	6.4	177-9577
M21-750-488	Black on White	Polyester	19.05	6.4	177-9578
M21-750-427	Black on Translucent	Vinyl	19.05	4.3	177-9583
M21-1000-427	Black on Translucent	Vinyl	25.4	4.3	177-9584
M21-1250-427	Black on Translucent	Vinyl	30.48	4.3	177-9585
M21-1500-427	Black on Translucent	Vinyl	38.1	4.3	177-9586
M21-375-580-WT	Black on White	Vinyl	9.53	6.4	177-9587
M21-500-580-WT	Black on White	Vinyl	12.7	6.4	177-9589
M21-750-580-WT	Black on White	Vinyl	19.05	6.4	177-9591
M21-750-580-YL	Black on Yellow	Vinyl	19.05	6.4	177-9592
M21-750-580-BL	White on Blue	Vinyl	19.05	6.4	177-9593
M21-750-580-GN	White on Green	Vinyl	19.05	6.4	177-9594
M21-750-580-OR	Black on Orange	Vinyl	19.05	6.4	177-9595
M21-750-580-RD	White on Red	Vinyl	19.05	6.4	177-9596
M21-375-499-TB	Black on White	Nylon Cloth	9.53	4.8	177-9597
M21-500-499-TB	Black on White	Nylon Cloth	12.7	4.8	177-9598
PermaSleeve™ Markers					
M21-125-C-342	Black on White	Polyolefin	5.97	2.13	177-9579
M21-187-C-342	Black on White	Polyolefin	8.51	2.13	177-9580
M21-250-C-342	Black on White	Polyolefin	11.15	2.13	177-9581
M21-375-C-342	Black on White	Polyolefin	16.38	2.13	177-9582

555338

Mfrs. List No.	Order Code	1+	5+
Self-Laminating			
M21-375-499	177-9572	●	
M21-500-499	177-9573	●	
M21-750-499	177-9574	●	
M21-500-430	177-9575	●	
M21-500-488	177-9577	●	
M21-750-488	177-9578	●	
M21-750-427	177-9583	●	
M21-1000-427	177-9584	●	
M21-1250-427	177-9585	●	
M21-1500-427	177-9586	●	
M21-375-580-WT	177-9587	●	
M21-500-580-WT	177-9589	●	
M21-750-580-WT	177-9591	●	
M21-750-580-YL	177-9592	●	
M21-750-580-BL	177-9593	●	
M21-750-580-GN	177-9594	●	
M21-750-580-OR	177-9595	●	
M21-750-580-RD	177-9596	●	
M21-375-499-TB	177-9597	●	
M21-500-499-TB	177-9598	●	
PermaSleeve[TradeMark] Markers			
M21-125-C-342	177-9579	●	
M21-187-C-342	177-9580	●	
M21-250-C-342	177-9581	●	
M21-375-C-342	177-9582	●	

BMP™21 Label Printer



NEW



The BMP™21 Portable Label Printer is an all-in-one labeler for voice/data comm, electrical and general industrial crews. With label materials designed specifically for harsh environments, the BMP™21 portable printer can quickly and easily create clear, legible labels that stay stuck for years - despite extreme temperatures and curved or highly textured surfaces.

- Easy-to-load cartridges
- Built in touch cell in labels and ribbon allows printer to automatically format label
- 6 font sizes - includes bold, auto sizing and bold auto sizing
- 80 different symbols - 13 specific to voice/data comm.
- Barcoding - choose from 39 and 128
- Automated serialization - includes multiple copies and increment options
- Multiple print
- Dual cutter buttons and label retention
- Easy-to-read - 50.8 mm x 25.4 mm display with backlight
- Built in bumper guards
- Print and cut technology - press print once for multi-print or serial
- Store, retrieve and delete label files
- Automatic shut-off if not used in 10 minutes

Print Resolution	203 dpi	Max. Roll Length	533mm
Print Technology	Thermal Transfer	Text Sizes	6 (6 to 40 point font)
Power Supply	6 x AA or AC Power (optional)	Bar Code Type	39 and 128
Display	LCD	Weight	0.75kg
Max. Label Width	19.05mm		

555294

Description	Mfrs. List No.	Order Code	1+
BMP21 Handheld Printer	BMP21-PRINTER	177-9569	●
Accessories			
AC Adaptor (UK)	BMP21-AC UK	177-9571	●

TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

BBP11 Thermal Transfer Desktop Printer



- Space saving design - small footprint.
- High quality double-walled clamshell design.
- A very wide range of labels, tags, cable markers and sleeves can be printed with the BBP11 series, thanks to the fully adjustable sensors.
- Printing up to 5" per second.
- Durability and reliability.
- Ethernet, USB 2.0, Serial and Parallel interfaces are standard on the BBP11 printer
- Powerful firmware: TSPL2, file manager, BASIC programming, stand-alone programming

The BBP11 is a compact desktop printer which provides high quality thermal transfer printing at a low cost. The BBP11 is an entry level thermal transfer printer for labels, tapes, cable markers, sleeves and much more. Identifying your cables, devices, laboratory equipment and many other components has never been so easy.

Print Resolution	203 dpi	Max. Label Width	108mm
Print Technology	Thermal Transfer	Max. Roll Length	2286mm
Dimensions (LxWxH)	258 x 202 x 173mm	Weight	2.5kg

Thermal Transfer Cable Marker Plates



- Operating temperature range: -5°C to 80°C
- Withstands harsh solvents, oils, and chemicals without over-lamination
- Supplied on rolls for use with TDP43MY Printer
- Use with Panduit RMR4 resin range of thermal transfer ribbons

Description	Mfrs. List No.	Order Code	Price Each
BBP11 Desktop Printer	BBP11-24L - UK	177-9599	1+
Accessories			
Media Holder	BBP11-U	177-9600	

IP™ Thermal Transfer Printer



IP™ Thermal Transfer Printer is a new, smart solution for high-performance printing. The IP™ Printer is a fully integrated, easy-to-use printer, material, and software system. Smart Cell technology allows the printer, materials, and ribbon to communicate with each other. The system offers material recognition, automatic formatting, and user-friendly printer features for labels, sleeves, and tags. IP™ Printer detects loaded material and ribbon and displays the user information on the LCD. The material information is sent to the software, where template and settings are automatically populated. Create data on template, then click and print.

555324

Description	Mfrs. List No.	Order Code	Price Each
IP™ Thermal Transfer Printer	BP-THT-IP300	177-9601	1+

Thermal Transfer Self-Laminating Labels



- Panduit thermal transfer self-laminating labels provide a white print-on area and clear overlaminates to help protect the legend from abrasion, solvents, oils and chemicals for clear and durable identification
- Vinyl with acrylic adhesive
- For indoor/outdoor use, thin and conformable material suitable for general wire/cable labelling

- Supplied on rolls for use with TDP43MY Printer
- Recommend use with Panduit RMH4BL hybrid thermal transfer ribbon
- Use Panduit TDP43M-RS roll stand for part numbers ending TY

Mfrs. List No.	Width (mm)	Length (mm)	Cable Diameter		Print On Area (mm)
			Min. (mm)	Max. (mm)	
S050X075VA1Y	12.7	19.05	3.07	4.04	12.7 x 6.35
S050X125VA1Y	12.7	31.75	3.07	7.03	12.7 x 9.65
S050X150VA1Y	12.7	38.1	4.04	8.09	12.7 x 12.7
S075X075VATY	19.05	19.05	3.07	4.04	19.05 x 6.35
S075X125VATY	19.05	31.75	3.07	7.03	19.05 x 9.65
S075X150VATY	19.05	38.1	4.04	8.09	19.05 x 12.7
S100X075VA1Y	25.4	19.05	2.02	4.04	25.4 x 6.35
S100X125VA1Y	25.4	31.75	3.07	7.03	25.4 x 9.65
S100X150VA1Y	25.4	38.1	4.04	8.09	25.4 x 12.7
S100X225VA1Y	25.4	57.15	6.06	12.13	25.4 x 19.05
S100X400VA1Y	25.4	101.6	8.09	24.26	25.4 x 25.4
S100X650VA1Y	25.4	165.1	12.13	40.43	25.4 x 38.1
S150X150VATY	38.1	38.1	4.04	8.09	38.1 x 12.7
S150X225VATY	38.1	57.15	6.06	12.13	38.1 x 19.05
S150X400VATY	38.1	101.6	8.09	24.26	38.1 x 25.4
S200X225VA1Y	50.8	57.15	6.06	12.13	50.8 x 19.05
S200X400VA1Y	50.8	101.6	8.09	24.26	50.8 x 25.4
S200X650VA1Y	50.8	165.1	12.13	40.43	50.8 x 38.1

549940

Mfrs. List No.	Pack Qty	Order Code	Price Per Pack		
			1+	5+	10+
S050X075VA1Y	5000	177-3913			
S050X125VA1Y	5000	177-3915			
S050X150VA1Y	5000	177-3916			
S075X075VATY	5000	177-3917			
S075X125VATY	5000	177-3918			
S075X150VATY	5000	177-3919			
S100X075VA1Y	2500	177-3920			
S100X125VA1Y	2500	177-3921			
S100X150VA1Y	2500	177-3922			
S100X225VA1Y	1500	177-3923			
S100X400VA1Y	1000	177-3924			
S100X650VA1Y	250	177-3925			
S150X150VATY	5000	177-3927			
S150X225VATY	5000	177-3928			
S150X400VATY	2500	177-3929			
S200X225VA1Y	500	177-3930			
S200X400VA1Y	500	177-3931			
S200X650VA1Y	250	177-3932			

Mfrs. List No.	Colour	Width (mm)	Length (mm)	Print On Area (mm)
M200X050Y6T	Yellow	50.8	12.7	12.7 x 27.2
M200X050Y7T	White	50.8	12.7	12.7 x 27.2
M200X050YAT	Blue	50.8	12.7	12.7 x 27.2
M200X050AET	Green	50.8	12.7	12.7 x 27.2
M200X050AFT	Grey	50.8	12.7	12.7 x 27.2
M200X050AGT	Orange	50.8	12.7	12.7 x 27.2
M200X050AIT	Red	50.8	12.7	12.7 x 27.2
M200X100Y6T	Yellow	51.8	25.4	25.4 x 20.3
M200X100Y7T	White	51.8	25.4	25.4 x 20.3
M200X100YAT	Blue	51.8	25.4	25.4 x 20.3
M200X100AET	Green	51.8	25.4	25.4 x 20.3
M200X100AFT	Grey	51.8	25.4	25.4 x 20.3
M200X100AGT	Orange	51.8	25.4	25.4 x 20.3
M200X100AIT	Red	51.8	25.4	25.4 x 20.3
M300X050Y6T	Yellow	76.2	12.7	12.7 x 52.6
M300X050Y7T	White	76.2	12.7	12.7 x 52.6
M300X050YAT	Blue	76.2	12.7	12.7 x 52.6
M300X050AET	Green	76.2	12.7	12.7 x 52.6
M300X050AFT	Grey	76.2	12.7	12.7 x 52.6
M300X050AGT	Orange	76.2	12.7	12.7 x 52.6
M300X050AIT	Red	76.2	12.7	12.7 x 52.6
M300X100Y6T	Yellow	77.2	25.4	25.4 x 45.7
M300X100Y7T	White	77.2	25.4	25.4 x 45.7
M300X100YAT	Blue	77.2	25.4	25.4 x 45.7
M300X100AET	Green	77.2	25.4	25.4 x 45.7
M300X100AFT	Grey	77.2	25.4	25.4 x 45.7
M300X100AGT	Orange	77.2	25.4	25.4 x 45.7
M300X100AIT	Red	77.2	25.4	25.4 x 45.7

549943

Mfrs. List No.	Order Code	Price Per Pack		
		1+	5+	10+
M200X050Y6T	177-3959			
M200X050Y7T	177-3960			
M200X050ACT	177-3961			
M200X050AET	177-3962			
M200X050AFT	177-3964			
M200X050AGT	177-3965			
M200X050AIT	177-3966			
M200X100Y6T	177-3967			
M200X100Y7T	177-3968			
M200X100ACT	177-3969			
M200X100AET	177-3970			
M200X100AFT	177-3971			
M200X100AGT	177-3972			
M200X100AIT	177-3973			
M300X050Y6T	177-3974			
M300X050Y7T	177-3976			
M300X050ACT	177-3977			
M300X050AET	177-3978			
M300X050AFT	177-3979			
M300X050AGT	177-3980			
M300X050AIT	177-3981			
M300X100Y6T	177-3982			
M300X100Y7T	177-3983			
M300X100ACT	177-3984			
M300X100AET	177-3985			
M300X100AFT	177-3986			
M300X100AGT	177-3988			
M300X100AIT	177-3989			

Thermal Transfer Raised Panel Labels



Raised panel labels are designed to meet the needs of manufacturers that would normally use engraved plates. The labels are available in a variety of sizes and colors, ready to print-on-demand using Easy-Mark™ Labeling Software and a TDP43MY thermal transfer desktop printer. The product is designed to have high resistance to scratches, smearing, and rubbing and meet print performance of UL969 and MIL-STD-202G when printed with RMR4BL-A and RMR4WH resin thermal transfer ribbons. Product solution also has an optional clear overlaminates to function in harsh environments.

Mfrs. List No.	Colour	Width (mm)	Length (mm)	Print On Area (mm)	Hole Diameter (mm)
C120X150APT-22	White	30.5	38.1	30.5 x 11.3	22
C120X150A8T-22	Yellow	30.5	38.1	30.5 x 11.3	22
C120X150AST-22	Green	30.5	38.1	30.5 x 11.3	22
C120X150AWT-22	Red	30.5	38.1	30.5 x 11.3	22
C120X150A0T-22	Black	30.5	38.1	30.5 x 11.3	22
C120X190APT-22	White	30.5	48.3	30.5 x 21.4	22



Thermal Transfer Raised Panel Labels - continued

Mfrs. List No.	Colour	Width (mm)	Length (mm)	Print On Area (mm)	Hole Diameter (mm)
C120X190A8T-22	Yellow	30.5	48.3	30.5 x 21.4	22
C120X190AST-22	Green	30.5	48.3	30.5 x 21.4	22
C120X190AWT-22	Red	30.5	48.3	30.5 x 21.4	22
C120X190AOT-22	Black	30.5	48.3	30.5 x 21.4	22
C180X180A8T-30	White	45.7	45.7	45.7 x 9.1	30
C180X180AST-30	Yellow	45.7	45.7	45.7 x 9.1	30
C180X180AWT-30	Green	45.7	45.7	45.7 x 9.1	30
C180X180AOT-30	Red	45.7	45.7	45.7 x 9.1	30
C240X240A8T-30	Black	45.7	45.7	45.7 x 9.1	30
C240X240APT-30	White	61	61	61 x 22.8	30
C240X240AST-30	Yellow	61	61	61 x 22.8	30
C240X240AWT-30	Green	61	61	61 x 22.8	30
C240X240AOT-30	Red	61	61	61 x 22.8	30
C100X050APT	White	25.4	12.7	-	-
C100X050A8T	Yellow	25.4	12.7	-	-
C100X050AST	Green	25.4	12.7	-	-
C100X050AWT	Red	25.4	12.7	-	-
C100X050AOT	Black	25.4	12.7	-	-
C100X050AMT	Silver	25.4	12.7	-	-
C200X100APT	White	50.8	25.4	-	-
C200X100A8T	Yellow	50.8	25.4	-	-
C200X100AST	Green	50.8	25.4	-	-
C200X100AWT	Red	50.8	25.4	-	-
C200X100AOT	Black	50.8	25.4	-	-
C200X100AMT	Silver	50.8	25.4	-	-
C300X250APT	White	76.2	63.5	-	-
C300X250A8T	Yellow	76.2	63.5	-	-
C300X250AST	Green	76.2	63.5	-	-
C300X250AWT	Red	76.2	63.5	-	-
C300X250AOT	Black	76.2	63.5	-	-
C300X250AMT	Silver	76.2	63.5	-	-
C400X100APT	White	101.6	25.4	-	-

549944

500 Per Pack Price Per Pack

Mfrs. List No.	Order Code	1+	5+	10+
C120X150APT-22	177-3990			
C120X150A8T-22	177-3991			
C120X150AST-22	177-3992			
C120X150AWT-22	177-3993			
C120X150AOT-22	177-3994			
C120X190APT-22	177-3995			
C120X190A8T-22	177-3996			
C120X190AST-22	177-3997			
C120X190AWT-22	177-3998			
C120X190AOT-22	177-4000			
C180X180APT-30	177-4002			
C180X180A8T-30	177-4003			
C180X180AST-30	177-4004			
C180X180AWT-30	177-4005			
C180X180AOT-30	177-4006			
C240X240APT-30	177-4007			
C240X240A8T-30	177-4008			
C240X240AST-30	177-4009			
C240X240AWT-30	177-4010			
C240X240AOT-30	177-4011			
C100X050APT	177-4012			
C100X050A8T	177-4014			
C100X050AST	177-4015			
C100X050AWT	177-4016			
C100X050AOT	177-4017			
C100X050AMT	177-4018			
C200X100APT	177-4019			
C200X100A8T	177-4020			
C200X100AST	177-4021			
C200X100AWT	177-4022			
C200X100AOT	177-4023			
C200X100AMT	177-4024			
C300X250APT	177-4026			
C300X250A8T	177-4027			
C300X250AST	177-4028			
C300X250AWT	177-4029			
C300X250AOT	177-4030			
C300X250AMT	177-4031			
C400X100APT	177-4032			



PANTHER™ LS8EQ Hand-Held Thermal Transfer Printer with innovative PDA style QWERTY keyboard for faster text entry and enhanced site productivity, also label cut-to-length functionality eliminates label waste and label trimming labour. The large, backlit display makes the LS8E the ideal tool for printing labels at a remote job site. USB interface for importing data, system upgrades, and printing labels from a wireless laptop or desktop computer.

- Print self-laminating labels, heat shrink tubing, die-cut component labels and continuous tape
- Market specific labeling tools simplify label creation for data network, panel building, and construction and maintenance engineers
- Large graphic display with backlight Maximize label design area with backlight for improved visibility
- Create Text, Serializations, Symbols (many included), Bar Codes, Data Lists, Date or Time Stamp, Line sperated labels, Framed labels and use special functions to minimise production time

The COUGAR™ LS9Q Hand-Held Thermal Transfer Printer with with innovative PDA style QWERTY keyboard for faster text entry and enhanced site productivity. The rugged printer design meets the demanding requirements of electrical and network users. With its ability to print on a wide variety of continuous industrial label materials for wire/cable marking, component labeling, and safety/facility identification, the LS9Q Printer is ideal for use in the field.

- Create Text, Serializations, Symbols (many included), Bar Codes, Line sperated labels, Framed labels and use special functions to minimise production time.

LS8EQ-KIT Contents: LS8EQ printer, 1 cassette of S100X150VAC self-laminating labels, 6 AA alkaline batteries, Rigid tough briefcase style carrying case, LS8-PCKIT (USB cable and PC interface software for importing data, system upgrades, or printing from a wireless laptop or desktop computer), LS8-IB (rubber impact protection bumper jacket), LS8-WS (wrist strap), quick reference card and operator's manual.

LS9Q Contents: Includes LS9 printer, 1 cassette of T100X000VPC-BK continuous tape, 6 AA alkaline batteries and quick reference card.

549945

Mfrs. List No.	Description	Order Code	Price Each 1+
LS8EQ-KIT	Thermal Transfer handheld Printer Kit	177-4033	
LS9Q	Thermal Transfer handheld Printer	177-4034	
Accessories			
LS9-CASE	LS9Q Rigid case	177-4035	
LS9-IB	LS9Q Protective Bumper Strip	177-4036	
LS9-WS	LS9Q Wrist Strap	177-4038	
LS9-CLN	LS9Q Cleaning Kit	177-4039	
LS8E-ACE	Euro Power Adaptor	177-6533	
LS8E-ACU	UK Power Adaptor	177-7562	

LS8EQ Labels



Self-Laminating Label Cassettes for LS8EQ

Vinyl die-cut Self-laminating adhesive labels for wire/cable identification include a white print-on area and clear overlamine.

- Operating temperature range: -40°C to 66°C
- Vinyl with acrylic adhesive
- For indoor/outdoor use, thin and conformable material suitable for general wire/cable labelling

Mfrs. List No.	Width (mm)	Length (mm)	Cable Diameter Min. (mm)	Max. (mm)	Print On Area (mm)
S050X075VAC	12.7	19.05	2.02	4.4	12.7 x 6.35
S050X125VAC	12.7	31.75	3.07	7.03	12.7 x 9.65
S050X150VAC	12.7	38.1	4.04	8.09	12.7 x 12.7
S075X075VAC	19.05	19.05	2.02	4.04	19.05 x 6.35
S075X100VAC	19.05	25.4	3.05	5.08	19.05 x 9.65
S075X125VAC	19.05	31.75	3.07	7.03	19.05 x 9.65
S075X150VAC	19.05	38.1	4.04	8.09	19.05 x 12.7
S100X075VAC	25.4	19.05	2.02	4.04	25.4 x 6.35
S100X125VAC	25.4	31.75	3.07	7.03	25.4 x 9.65
S100X150VAC	25.4	38.1	4.04	8.09	25.4 x 12.7
S100X225VAC	25.4	57.15	6.06	12.19	25.4 x 19.05
S100X400VAC	25.4	101.6	8.09	24.26	25.4 x 25.4
S100X650VAC	25.4	165.1	12.19	40.39	25.4 x 38.1

549946

Mfrs. List No.	Pack Qty	Order Code	Price Per Pack 1+	5+	10+
S050X075VAC	450	177-4040			
S050X125VAC	225	177-4041			
S050X150VAC	200	177-4042			
S075X075VAC	350	177-4043			
S075X100VAC	275	177-4044			
S075X125VAC	225	177-4045			
S075X150VAC	200	177-4046			
S100X075VAC	350	177-4047			

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Mfrs.	Pack	Price Per Pack			
List No.	Qty	Order Code	1+	5+	10+
S100X125VAC	225	177-4048			
S100X150VAC	200	177-4051			
S100X225VAC	125	177-4052			
S100X400VAC	75	177-4053			
S100X650VAC	50	177-4054			

LS8EQ and LS9Q Labels



Tape Label Cassettes for LS8EQ and LS9Q

Nylon cloth cartridge (for flat panel applications only), ideal for large pipe markers, voltage markers, signs and bin markers and network identification labels.

Mfrs.	Width	Length	Mfrs.	Width	Length
List No.	(mm)	(m)	List No.	(mm)	(m)
T050X000C1C-BK	12.7	5.48	T100X000C1C-BK	25.4	5.48
T050X000C2C-BK	12.7	5.48	T100X000C2C-BK	25.4	5.48

Vinyl impregnated cloth tape for wire/cable labelling. General purpose material resists oil and abrasion; material can be removed, repositioned and reused.

- Operating temperature range: -46°C to 77°C
- For indoor use

Mfrs.	Width	Length	Mfrs.	Width	Length
List No.	(mm)	(m)	List No.	(mm)	(m)
T050X000CBC-BK	12.7	3.8	T100X000CBC-BK	25.4	3.8

Polyolefin Heat Shrink Military grade continuous cartridge for cable labelling

- Meets print performance requirements of MIL-M-81531 and MIL-STD-202F Method 215A, Solution A, C, and D
- Meets UL Standard 224 for flammability
- Shrink ratio 3:1
- Non-adhesive flattened durable heat shrinkable polyolefin for wire/cable identification
- Operating temperature range: -30°C to 105°C
- For outdoor/indoor use

Mfrs.	Colour	Ribbon Colour	Width (mm)	Length (mm)	Cable Diameter (mm)	
List No.					Min.	Max.
H000X025H1C	White	Black	6.35	2.44	1.02	3.3
H000X025H2C	Yellow	Black	6.35	2.44	1.02	3.3
H000X034H1C	White	Black	8.64	2.44	1.52	4.83
H000X034H2C	Yellow	Black	8.64	2.44	1.52	4.83
H000X044H1C	White	Black	11.18	1.83	2.03	6.35
H000X044H2C	Yellow	Black	11.18	1.83	2.03	6.35
H000X084H1C	White	Black	21.34	1.83	4.32	12.7
H000X084H2C	Yellow	Black	21.34	1.83	4.32	12.7

Vinyl multi-colour continuous tape cartridges. Print custom pipe markers, voltage markers, signs and bin markers and network identification labels on demand

- Conformable material for flat applications and safety and facility identification, can be overlaminated to increase durability.
- Operating temperature range: -40°C to 80°C
- For outdoor/indoor use

Mfrs.	Colour	Ribbon Colour	Width (mm)	Length (mm)
T038X000VPC-BK	White	Black	9.65	7.6
T038X000VYC-WH	Black	White	9.65	7.6
T050X000VPC-BK	White	Black	9.65	7.6
T050X000VQC-BK	Blue	Black	9.65	7.6
T050X000VQC-WH	Blue	White	9.65	7.6
T050X000VSC-BK	Green	Black	9.65	7.6
T050X000VSC-WH	Green	White	9.65	7.6
T050X000VUC-BK	Orange	Black	9.65	7.6
T050X000VVC-BK	Red	Black	9.65	7.6
T050X000VVC-WH	Red	White	9.65	7.6
T050X000VXC-BK	Yellow	Black	9.65	7.6
T050X000VYC-WH	Black	White	9.65	7.6
T075X000VPC-BK	White	Black	9.65	7.6
T100X000VPC-BK	White	Black	9.65	7.6
T100X000VQC-BK	Blue	Black	9.65	7.6
T100X000VQC-WH	Blue	White	9.65	7.6
T100X000VSC-BK	Green	Black	9.65	7.6
T100X000VSC-WH	Green	White	9.65	7.6
T100X000VUC-BK	Orange	Black	9.65	7.6
T100X000VUC-WH	Orange	White	9.65	7.6
T100X000VVC-BK	Red	Black	9.65	7.6
T100X000VVC-WH	Red	White	9.65	7.6
T100X000VXC-BK	Yellow	Black	9.65	7.6
T100X000VXC-WH	Yellow	Black	9.65	7.6
T100X000VYC-WH	Black	White	9.65	7.6

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Mfrs.	Order Code	1+	5+	10+
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Nylon Cloth Cartridge

T050X000C1C-BK	177-4055			
T050X000C2C-BK	177-4056			
T100X000C1C-BK	177-4057			
T100X000C2C-BK	177-4058			

Vinyl Impregnated Cloth Tape

T050X000CBC-BK	177-4059			
T100X000CBC-BK	177-4060			

Polyolefin Heat Shrink

H000X025H1C	177-4061			
H000X025H2C	177-4063			
H000X034H1C	177-4064			
H000X034H2C	177-4065			
H000X044H1C	177-4066			

Mfrs.	Order Code	1+	5+	10+
Polyolefin Heat Shrink				
H000X044H2C	177-4067			
H000X084H1C	177-4068			
H000X084H2C	177-4069			
Vinyl Multi-colour Continuous Tape Cartridges				
T038X000VPC-BK	177-4070			
T038X000VYC-WH	177-4071			
T050X000VPC-BK	177-4072			
T050X000VQC-BK	177-4073			
T050X000VQC-WH	177-4075			
T050X000VSC-BK	177-4076			
T050X000VSC-WH	177-4077			
T050X000VUC-BK	177-4078			
T050X000VVC-BK	177-4079			
T050X000VVC-WH	177-4080			
T050X000VXC-BK	177-4081			
T050X000VYC-WH	177-4082			
T075X000VPC-BK	177-4083			
T100X000VPC-BK	177-4084			
T100X000VQC-BK	177-4085			
T100X000VQC-WH	177-4087			
T100X000VSC-BK	177-4088			
T100X000VSC-WH	177-4089			
T100X000VUC-BK	177-4090			
T100X000VUC-WH	177-4091			
T100X000VVC-BK	177-4092			
T100X000VVC-WH	177-4093			
T100X000VXC-BK	177-4094			
T100X000VXC-WH	177-4095			
T100X000VYC-WH	177-4096			

Cable Grommets

TSS Grommets



This range of low cost grommets are available in black, grey and white from M16 to M32. Intended for fast and easy installation, these products should be particularly useful in volume manufacturing and installation work saving time and effort as they have some built-in features not normally found in this relatively simple product.

- For use with cables or pipework
- Handles an exceptionally large cable (or pipe) diameter range.
- Panel thickness variation 0.5-4.5mm (depending on products)
- Quick and easy assembly - no tools required.
- Push-out membrane (not pierced) ensures an IP67 seal is certain.
- The sock closes tight around the cable and allows for movement (joy-stick fashion) without compromising the IP rating.
- Works extremely well with cables passing through at an angle.
- IP rating maintained before and after cable fitment - no need to fit 'temporary' seals

Material	TPE - Thermoplastic Elastomer - UL approved material, Halogen Free
Mode of protection	IP67
Temperature range	-50°C - 125°C
Test standard	IEC 60529, IP67

Thread Size	Cable Diameter (mm)		Diameter Fixing Hole (mm)	Panel Thickness (mm)	
	Min	Max		Min	Max
M16	5	10	16.5	0.5	3
M20	6	13	20.5	0.5	3
M25	8	17	25.5	0.5	3.5
M32	12	24	32.5	0.5	4.5

Mfrs.	Order Code	Size	Pack Qty	1+	5+	10+
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Grey

1475711	M16	50	156-4442			
1475712	M20	50	156-4443			
1475713	M25	50	156-4445			
1475714	M32	25	156-4446			

Black

1475716	M16	50	156-4447			
1475717	M20	50	156-4448			
1475718	M25	50	156-4449			
1475719	M32	25	156-4450			

White

1475721	M16	50	156-4451			
1475722	M20	50	156-4452			
1475723	M25	50	156-4453			
1475724	M32	25	156-4454			

Cable Grommets - continued

TSS Grommets - continued

Mfrs. List No.	Size	Order Code	Price Each 1+
Grey			
1475711	M16	156-4542	
1475712	M20	156-4543	
1475713	M25	156-4544	
1475714	M32	156-4545	
Black			
1475716	M16	156-4546	
1475717	M20	156-4548	
1475718	M25	156-4549	
1475719	M32	156-4550	
White			
1475721	M16	156-4551	
1475722	M20	156-4552	
1475723	M25	156-4553	
1475724	M32	156-4554	

Cable Retention Grommets



EPDM is generally more resistant to cold temperature, diluted acids and ozone than CR material. These products provide an economical alternative to cable glands when taking through a bulkhead or panel. They are quick and easy to install from one side only (no tool is required) and they also provide a measure of cable retention and sealing to IP67 in accordance with EN60529.

- Quick method of taking a cable through a bulkhead or panel - no tools required
- Low profile on front of panel/bulkhead, ideal for use in restricted places
- EPDM temperature range -30 to 130°C
- Seals to IP67
- Halogen-free EPDM (Grey)
- Metric and PG sizes

Thread Size	Cable Diameter (mm)		Diameter Fixing Hole (mm)	Panel Thickness (mm)	
	Min	Max		Min	Max
M12	4	7	12.5	0.5	2
M16	5	9	16.5	1	4
M20	8	12	20.5	1	4
M25	11	16	25.5	1	4
M32	15	20	32.5	1	4
M40	19	28	40.5	1	4
M50	27	35	50.5	1	4
PG7	3	5	13	0.5	2
PG9	5	7	16	1	4
PG11	7	10	19	1	4
PG16	10	14	23	1	4
PG21	14	20	29	1	4
PG29	20	26	38	1	4
PG36	26	35	48	1	4

Mfrs. List No.	Size	Pack Qty	Order Code	Price Per Pack 1+	10+
Metric					
1458233	M12	50	156-4455		
1458234	M16	50	156-4457		
1458235	M20	50	156-4458		
1458236	M25	50	156-4459		
1458237	M32	25	156-4460		
1458238	M40	25	156-4461		
1458239	M50	10	156-4462		
PG					
1458220	PG7	50	156-4463		
1458221	PG9	50	156-4464		
1458222	PG11	50	156-4465		
1458223	PG16	50	156-4466		
1458224	PG21	25	156-4467		
1458225	PG29	25	156-4469		
1458226	PG36	10	156-4471		

Mfrs. List No.	Size	Order Code	Price Each 1+
Metric			
1458233	M12	156-4555	
1458234	M16	156-4556	
1458235	M20	156-4557	
1458236	M25	156-4558	
1458237	M32	156-4561	
1458238	M40	156-4562	
1458239	M50	156-4563	

Mfrs. List No.	Size	Order Code	Price Each 1+
PG			
1458220	PG7	156-4564	
1458221	PG9	156-4565	
1564465	PG11	156-4566	
1458223	PG16	156-4567	
1458224	PG21	156-4568	
1458225	PG29	156-4569	
1458226	PG36	156-4570	

Klikseal



This unique two-material moulded product provides an economical alternative to cable glands when taking a cable through a bulkhead or panel. Available in M20 & M25 metric sizes, the product klik-fixes into place and self adjusts to the surrounding panel thickness which makes installation quick, easy and economical. The cable is then fed through the product, piercing the membrane (no tool is required) and obtains the IP67 sealing. Due to the unique two-part moulded construction the product also provides a positive cable strain relief.

- Low cost, quick method of taking a cable through a bulkhead or panel - no tools required
- Low profile on front of panel/bulkhead, ideal for use in restricted places
- Temperature range -20°C to +125°C
- Seals to IP67 (Approval Pending)
- Halogen-Free TPE and Polyamide 66 construction
- Wide cable range
- Built-in cable strain relief
- Available in Grey, Black or White

Thread Size	Cable Diameter (mm)		Diameter Fixing Hole (mm)	Panel Thickness (mm)	
	Min	Max		Min	Max
M20	4	10	20.5	1.5	5
M25	4	14	25.5	1.5	5

Mfrs. List No.	Size	Pack Qty	Order Code	Price Per Pack 1+	10+
Grey					
1475803	M20	50	156-4436		
1475804	M25	50	156-4437		
Black					
1475813	M20	50	156-4438		
1475814	M25	50	156-4439		
White					
1475823	M20	50	156-4440		
1475824	M25	50	156-4441		

Mfrs. List No.	Size	Order Code	Price Each 1+
Grey			
1475803	M20	156-4536	
1475804	M25	156-4537	
Black			
1475813	M20	156-4538	
1475814	M25	156-4539	
White			
1475823	M20	156-4540	
1475824	M25	156-4541	

PVC



A range of Black PVC grommets for all general industrial installation type uses.

Panel Hole Diameter (mm)	Max. cable Diameter (mm)	Outside Diameter (mm)	Overall Thickness (mm)	Order Code
Open Grommets				
4.8	3.2	8	6.4	◆118-9027
6.4	4.8	9.5	6	◆118-9028
6.4	4	9.5	6.4	◆118-9030
6.4	4.8	9.5	7	◆118-9031
8	4.8	11.1	6.4	◆118-9032
9.5	4.8	12.7	5.6	◆118-9033
9.5	6.4	14.3	4.8	◆118-9034
9.5	6.4	14.3	6.4	◆118-9035
9.5	7.5	13.5	6.4	◆118-9036
9.5	8	14.3	4.8	◆118-9038
10.3	8	15.9	6.4	◆118-9039
11.1	7.2	15.9	6.4	◆118-9040
11.1	8	14.3	4.8	◆118-9041

Panel Hole Diameter (mm)	Max. cable Diameter (mm)	Outside Diameter (mm)	Overall Thickness (mm)	Order Code
Open Grommets				
11.9	9.5	17.5	6.8	◆118-9043
12.7	9.5	15.9	6.3	◆118-9044
14.3	11.1	19	6.4	◆118-9045
19	12.7	25.4	6.4	◆118-9046
20	15.9	23.8	6.4	◆118-9047
25.4	19	30	7.5	118-9048
Blanking Grommets				
15.9	—	22.2	—	118-9051
20	—	25.4	—	118-9052
25.4	—	31.8	—	118-9053

Note: All items marked ◆ are included in the PVC Grommet Kit, see below.

224114

Order Code	Price Per Pack				
	1+	5+	10+	25+	50+
Open					
118-9027					
118-9028					
118-9030					
118-9031					
118-9032					
118-9033					
118-9034					
118-9035					
118-9036					
118-9038					
118-9039					
118-9040					
118-9041					
118-9043					
118-9044					
118-9045					
118-9046					
118-9047					
118-9048					
Blanking					
118-9051					
118-9052					
118-9053					

PVC Grommet Kit



A kit of 18 different sizes of grommets suitable for use with 1.6mm thick panels. The kit covers a range of panel hole sizes from 4.8mm to 20mm, with cable hole diameters ranging from 3.2mm to 15.9mm. Supplied in an 18 compartment storage box.

No. of Grommets in kit 450
Max. operating temperature +70°C

224115

Order Code	Price Each		
	1+	5+	10+
118-9054			

HOTKIT Grommets



HellermannTyton protection grommets are made of flexible PVC, offering strain relief and cable routing that is free of kinks. They are noted for their resistance to chemicals, effects of the environment and ageing as well as for their insulating properties. Typically used for protection of cables at apertures in casings and control panels. The HOTKIT comprises 50 edge protection grommets and 50 strain relief grommets in 3 popular sizes for each type.

Material Flexible PVC Operating Temperature -30°C to +60°C continuous
Colour Black Flammability UL94 V2

Kit Contents: 15 pcs (HV2101, HV2210, HV1203, HV1208), 20 pcs (HV2213, HV1201).

550585

Mfrs. List No.	Order Code	Price Per Kit		
		1+	5+	10+
HOT KIT	177-4277			

Rubber



224116

Chassis Hole (mm)	Cable Entry (mm)	Order Code	Price Per Pack		
			1+	5+	10+
9.5	6.35	303-161			
12.7	9.5	303-173			

Sleeved Grommet



- Provides support and protection for cables and wires passing through panels
- Manufactured from Black PVC

Panel Hole Dia. (mm)	Max. Cable Dia. (mm)	Body Length (mm)	Max. Panel Thickness (mm)	Order Code
9.5	6.4	14.3	2.4	390-8392
7.6	6.1	31.7	3.8	432-6325
8.7	5.1	42.9	1.6	432-6337
9.5	6.4	23	2.6	432-6349

233411

Mfrs. List No.	Order Code	Price Per Pack		
		1+	20+	50+
50687	390-8392			
12461	432-6325	NEW		
60466	432-6337	NEW		
12468	432-6349	NEW		

Bend Protection Grommets



- Operating temperature: -30°C to 60°C
- Flammability: UL94 V2
- Manufactured in Black PVC

Strain protection grommets are made of flexible PVC and non-migrating Helvin. They have excellent insulating properties and are resistant to chemicals. Bend protection grommets are typically used for protection of cables at apertures in casings.

Mfrs. List No. HV2107-PVC-BK-T1	
Mfrs. List No. HV2210-PVC-BK-M1	
Mfrs. List No. HV2213-PVC-BK-N1	
Mfrs. List No. HV2228-PVC-BK-D1	

610494

Mfrs. List No.	Order Code	Price Each		
		1+	5+	10+
HV2107-PVC-BK-T1	182-7049			
HV2210-PVC-BK-M1	182-7048			
HV2213-PVC-BK-N1	182-7046			
HV2228-PVC-BK-D1	182-7047			

Cable Grommets - continued

Price Each

Sleeved Grommets



- Provides support and protection for cables and wires passing through panels
- Manufactured from Black PVC

Panel Hole Dia. (mm)	Max. Cable Dia. (mm)	Body Length (mm)	Max. Panel Thickness (mm)	Order Code
7.7	4	38.9	2.4	432-6260
9.6	6.2	41.3	1.6	432-6283
11.3	7.9	38.1	3.2	432-6295

248482

50 Per Pack

Price Per Pack

Mftrs. List No.	Order Code	1+	20+	50+
15517	432-6260			
60218	432-6283			
60752	432-6295			

Multi Cable Grommet



- Suitable for cable diameters from 8mm to 17mm
- Graduated sleeve can be cut to requirement

Panel Hole Diameter	Max. Panel Thickness
20mm	1.6mm

248483

50 Per Pack

Price Per Pack

Mftrs. List No.	Order Code	1+	20+	50+
12312	432-6313			

Weather Resistant



IP66/67 Rated



- Designed to achieve a flexible, dust proof and watertight seal around cables and conduits
- Easy to install
- Suitable for a wide range of applications
- Tested in accordance with **BS EN 60529:1992 to IP66/67**

Panel Hole (mm)	Panel Thickness	Cable Diameter	Order Code
12.5	1 to 4mm	3 to 5mm	190-9486
16	1 to 4mm	5 to 7mm	190-9487
19	1 to 4mm	7 to 10mm	190-9488
23	1 to 4mm	10 to 14mm	190-9489
25	1 to 4mm	10 to 15mm	189-4659
29	1 to 4mm	14 to 20mm	190-9490

242424

50 Per Pack

Price Per Pack

Mftrs. List No.	Order Code	1+	5+	10+	25+	50+
RB1801	190-9486					
RB1802	190-9487					
RB1803	190-9488					
RB1804	190-9489					
RB1806	189-4659					
RB1805	190-9490					

Shrinkhoop Cable Clamp Heat-Shrink Grommet



- Ultra High ratio heat-shrinkable relief grommet that can be placed over the cable assembly after the connector pin
- Reduced assembly time
- Superior strain relief
- Rework made easier
- Re-expandable I.D allows wire addition to a cable bundle
- No build-up taping or feeding wire through a grommet
- Operating temperature: -55°C to 135°C

Inner Diameter Expanded, Minimum	Inner Diameter Recovered, Maximum	Outer Diameter	Supplier Part Number
25mm (1.00")	2.1mm (0.08")	6.0mm (0.25")	URHR-1-0
31mm (1.23")	2.6mm (0.10")	10mm (0.375")	URHR-2-0
37mm (1.44")	3.6mm (0.14")	13mm (0.50")	URHR-3-0
47mm (1.85")	4.7mm (0.18")	14mm (0.562")	URHR-4-0
51mm (2.00")	5.1mm (0.20")	21mm (0.812")	URHR-5-0

338613

Supplier No.	Order Code	1+	5+
URHR-1-0	496-6831		
URHR-2-0	496-6843		
URHR-3-0	496-6855		
URHR-4-0	496-6867		
URHR-5-0	496-6879		

Flexiform Grommet Strips



G51P Series



- Flexiform U-profile edge protection grommet strips
- Installation without the need for adhesives
- The close-fitting profile provides effective protection for cables by preventing any chafing.
- Typical applications: Protection of cables routed through sharp-edged cut-out sections.

Material/Colour: Polyethylene (PE), Natural
Operating temperature: -30°C to +80°C continuous Flammability: (+120°C for 200h) meets UL94V-2

Mftrs. List No.	Panel Thickness		Width (mm)	Height (mm)
	min. (mm)	max. (mm)		
G51P-A-PE-NA	0.4	1.5	3.9	4.3
G51P-B-PE-NA	1.3	2.4	4.6	4.3
G51P-C-PE-NA	2.2	3.4	5.7	4.3
G51P-D-PE-NA	3.3	5.0	8.4	6.2
G51P-E-PE-NA	4.9	6.7	9.9	6.4

526286

Price Per Roll (25m)

Mftrs. List No.	Order Code	1+	5+	10+	25+
G51P-A-PE-NA	107-9551				
G51P-B-PE-NA	107-9552				
G51P-C-PE-NA	107-9553				
G51P-D-PE-NA	107-9555				
G51P-E-PE-NA	107-9556				

EdgeGuard



EdgeGuard beading strip is used to protect cables routed around sharp edged cut-out sections. It can also be used to provide an attractive finish to panel edges and protect cables from chafing on cut edges of panels. Manufactured from a flexible PVC compound that ensures ease of use.

Material: Polyvinyl-chloride (PVC)
Colour: Black (BK)
Operating Temperature: -65°C to +105°C continuous
Flammability: UL94 HB

550582

Mftrs. List No.	Length	Dimensions			Order Code	Price Per Coil		
		Width	Height			1+	5+	10+
SM1	75m	5mm	6.3mm		177-4269			
RA1	75m	6.4mm	7.1mm		177-4271			
PS1	75m	5mm	5mm		177-4272			

Edging Grommet



- U-profile edge protection grommet strips
- Manufactured from Natural Polyethylene
- Installation without the need for adhesives
- The profile provides effective protection for cables by preventing any chafing

- Typical applications: Protection of cables routed through sharp-edged cut-out sections
- Supplied in 10m coils

Mftrs. List No.	Panel Thickness min. (mm)	Panel Thickness max. (mm)	Width (mm)	Order Code
ED-012	1	1.2	3.4	177-3408
ED-016	1.2	1.6	4.6	177-3411
ED-020	1.6	2	4.1	177-3412
ED-024	2	2.4	5.07	177-3413
ED-032	2.4	3.2	5.8	177-3414
ED-055	4.5	5.5	7.9	177-3415

549851

Price Per Coil

Mftrs. List No.	Order Code	1+	5+	10+	25+
ED-010	177-3407				
ED-012	177-3408				
ED-016	177-3411				
ED-020	177-3412				
ED-024	177-3413				
ED-032	177-3414				
ED-055	177-3415				

Flexible Edging Grommet



- Flexible U-profile edge protection grommet strips
- Manufactured from Natural Polypropylene
- Installation without the need for adhesives
- The profile provides effective protection for cables by preventing any chafing
- Typical applications: Protection of cables routed through sharp-edged cut-out sections
- Supplied in 10m coils

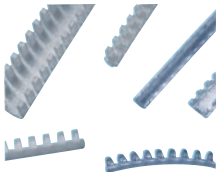
Mftrs. List No.	Panel Thickness		Width (mm)	Height (mm)	Order Code
	Min. (mm)	Max. (mm)			
KGC-012		1.2	3	4	177-3416
KGC-016	1	1.6	1.6	5	177-3417
KGC-020	1.6	2	2	4.7	177-3418
KGC-024	2	2.4	2.4	5	177-3419
KGC-032	2.4	3.2	3.2	4.8	177-3420
KGC-045	3.2	4.5			177-3421

549849

Price Per Coil

Mftrs. List No.	Order Code	Price Per Coil			
		1+	5+	10+	25+
KGC-012	177-3416				
KGC-016	177-3417				
KGC-020	177-3418				
KGC-024	177-3419				
KGC-032	177-3420				
KGC-045	177-3421				

Grommet Edging - Flame Retardant



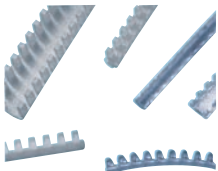
- Manufactured from Flame Retardant Nylon 6.6
- Operating Temperature: -40°C - 105°C
- Flammability Rating: V-0
- Supplied in 323.9mm lengths

Mftrs. List No.	Panel Thickness (mm)		Width (mm)	Height (mm)
	Min.	Max.		
GE52-C69	0.4	1.3	3.8	3.9
GE85-C69	1.3	2.2	4.5	3.9
GE128-C69	2.2	3.3	5.6	3.9
GE192-L69	3.3	4.9	8.3	5.8

610352

Mftrs. List No.	Pack Qty	Order Code	Price Per Pack		
			1+	5+	10+
GE52-C69	100	182-6699			
GE85-C69	100	182-6701			
GE128-C69	100	182-6702			
GE192-L69	50	182-6703			

Grommet Edging - Military Specification



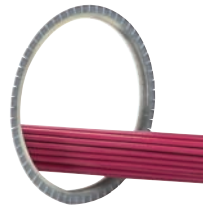
- Manufactured from Flame Retardant Nylon 6.6
- Operating Temperature: -40°C - 105°C
- Flammability Rating: V-2
- Military Specification: MS21266-1N
- Supplied in 323.9mm lengths

Mftrs. List No.	Panel Thickness (mm)		Width (mm)	Height (mm)
	Min.	Max.		
GE52-C	0.4	1.3	3.8	3.9
GE85-C	1.3	2.2	4.5	3.9
GE128-C	2.2	3.3	5.6	3.9
GE192-L	3.3	4.9	8.3	5.8
GE255-L	4.9	6.5	9.8	6.1
GE318-L	6.5	8.1	11.3	6.5
GE380-Q	8.1	9.7	13.1	6.5
GE510-Q	9.7	13	16.3	6.5

610356

Mftrs. List No.	Pack Qty	Order Code	Price Per Pack		
			1+	5+	10+
GE52-C	100	182-6704			
GE85-C	100	182-6705			
GE128-C	100	182-6706			
GE192-L	50	182-6707			
GE255-L	50	182-6708			
GE318-L	50	182-6709			
GE380-Q	25	182-6710			
GE510-Q	25	182-6711			

Panel and Grommet Edging



- Available in 3 Polyethylene materials; Natural (for indoor use), Black Weather Resistant (for outdoor use) and Flame Retardant (for limiting fire propagation)
- Also available with adhesive lined inner edge to help ensure product stays in place
- Protects and insulates wires and cables from chafing against sharp edges
- Slotted Wall for use on curved edges or punchouts

NEW

- Suitable for temperatures -40°C to +50°C
- Flame Retardant UL 94-V0 rating and suitable for temperatures -20°C to +75°C
- Provided in 0.8mm thick material making it highly flexible
- Use product on irregularly shaped and round panel holes
- Reel length: 30.48 metres

Mftrs. List No.	Panel Thickness Range		Height (mm)	Width (mm)
	Min. (mm)	Max. (mm)		

Natural Polyethylene				
GEE36F-C	0.7	0.9	3	2.7
GEE62F-C	0.9	1.6	4.1	3.3
GEE99F-C	1.6	2.5	4.7	4.3
GEE144F-C	2.5	3.7	5.6	5.4

Black Weather Resistant Polyethylene				
GEE36F-CO	0.7	0.9	3	2.7
GEE62F-CO	0.9	1.6	4.1	3.3
GEE99F-CO	1.6	2.5	4.7	4.3
GEE144F-CO	2.5	3.7	5.6	5.4

Adhesive Lined Natural Polyethylene				
GEE62F-A-C	0.9	1.6	4.1	3.3
GEE99F-A-C	1.6	2.5	4.7	4.3
GEE144F-A-C	2.5	3.7	5.6	5.4

Adhesive Lined Black Weather Resistant Polyethylene				
GEE62F-A-CO	0.9	1.6	4.1	3.3
GEE99F-A-CO	1.6	2.5	4.7	4.3
GEE144F-A-CO	2.5	3.7	5.6	5.4

Flame Retardant Natural Polyethylene (self extinguishing material)				
GEE36FR-CY	0.7	0.9	3	2.7
GEE62FR-CY	0.9	1.6	4.1	3.3
GEE99FR-CY	1.6	2.5	4.7	4.3
GEE144FR-CY	2.5	3.7	5.6	5.4

643301

Mftrs. List No.	Order Code	Price Per Reel		
		1+	5+	10+
GEE36F-C	206-3442			
GEE62F-C	206-3443			
GEE99F-C	206-3444			
GEE144F-C	206-3445			
GEE36F-CO	206-3446			
GEE62F-CO	206-3447			
GEE99F-CO	206-3448			
GEE144F-CO	206-3449			
GEE62F-A-C	206-3450			
GEE99F-A-C	206-3452			
GEE144F-A-C	206-3453			
GEE62F-A-CO	206-3454			
GEE99F-A-CO	206-3455			
GEE144F-A-CO	206-3456			
GEE36FR-CY	206-3457			
GEE62FR-CY	206-3458			
GEE99FR-CY	206-3459			
GEE144FR-CY	206-3460			

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Cable Grommets - continued

Panel and Grommet Edging



NEW

- Available in 3 Polyethylene materials; Natural (for indoor use), Black Weather Resistant (for out-

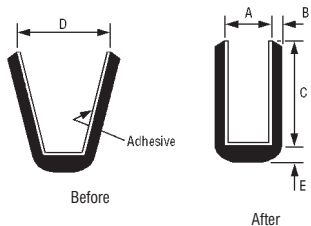
- door use) and Flame Retardant (for limiting fire propagation)
- Also available with adhesive lined inner edge to help ensure product stays in place
- Protects and insulates wires and cables from chafing against sharp edges
- Solid Wall for use on straight edges
- Suitable for temperatures -40°C to +50°C
- Flame Retardant UL 94-V0 rating and suitable for temperatures -20°C to +75°C (UL 746B) except GES36FR-C which is +50°C
- Provided in 0.8mm thick material making it highly flexible
- Use product on irregularly shaped and round panel holes
- Reel length: 30.48 metres

Mfrs. List No.	Panel Thickness Range (mm)	Max. (mm)	Height (mm)	Width (mm)
Natural Polyethylene				
GES36F-C	0.7	0.9	3	2.7
GES62F-C	0.9	1.6	4.1	3.3
GES99F-C	1.6	2.5	4.7	4.3
GES144F-C	2.5	3.7	5.6	5.4
GES189F-C	3.7	4.8	7.6	7.6
Black Weather Resistant Polyethylene				
GES36F-C0	0.7	0.9	3	2.7
GES62F-C0	0.9	1.6	4.1	3.3
GES99F-C0	1.6	2.5	4.7	4.3
GES144F-C0	2.5	3.7	5.6	5.4
GES189F-C0	3.7	4.8	7.6	7.6
Adhesive Lined Natural Polyethylene				
GES62F-A-C	0.9	1.6	4.1	3.3
GES99F-A-C	1.6	2.5	4.7	4.3
GES144F-A-C	2.5	3.7	5.6	5.4
Adhesive Lined Black Weather Resistant Polyethylene				
GES62F-A-C0	0.9	1.6	4.1	3.3
GES99F-A-C0	1.6	2.5	4.7	4.3
GES144F-A-C0	2.5	3.7	5.6	5.4
Flame Retardant Natural Polyethylene (self extinguishing material)				
GES36FR-CY	0.7	0.9	3	2.7
GES62FR-CY	0.9	1.6	4.1	3.3
GES99FR-CY	1.6	2.5	4.7	4.3
GES144FR-CY	2.5	3.7	5.6	5.4

643315

Mfrs. List No.	Order Code	1+	5+	10+
GES36F-C	206-3461			
GES62F-C	206-3462			
GES99F-C	206-3464			
GES144F-C	206-3465			
GES189F-C	206-3466			
GES36F-C0	206-3467			
GES62F-C0	206-3468			
GES99F-C0	206-3469			
GES144F-C0	206-3470			
GES189F-C0	206-3471			
GES62F-A-C	206-3472			
GES99F-A-C	206-3473			
GES144F-A-C	206-3474			
GES62F-A-C0	206-3476			
GES99F-A-C0	206-3477			
GES144F-A-C0	206-3478			
GES36FR-CY	206-3479			
GES62FR-CY	206-3480			
GES99FR-CY	206-3481			
GES144FR-CY	206-3482			

Rayrim™ Adhesive Panel Edging



- Extruded edging strip internally coated with heat activated adhesive
- Heating changes profile from 'V' to a 'U' section
- Utilises radiation cross-linked polyolefin
- Applies to both internal and external radii and straight edges
- Bonds to metal, wood or glass edges
- Installation temperature, 150°C to 200°C
- 55°C to 80°C operating temperature

A (max)	B (min)	C (min)	D (min)	E (typical)	Mfrs. List No.	1.2m	5m
0.6	0.5	3.5	0.8	1.25	RAYRIM-NR6-0-769-174	769-174	134-727
1.0	0.9	4.8	1.6	1.25	RAYRIM-NR7-0-769-186	769-186	134-739
2.0	0.9	6.6	2.5	2.25	RAYRIM-NR8-0-769-198	769-198	134-740
4.2	0.9	13.5	4.5	2.20	RAYRIM-NR9-0-769-204	769-204	134-752

208176

Panel Thickness (max)	Order Code	1+	25+	100+	250+
1.2m Length					
	769-174				
	769-186				
	769-198				
	769-204				
5m Length					
	134-727				
	134-739				
	134-740				
	134-752				

Side Entry Bushings



NEW



Pre-coiled side entry reusable silicone bushing designed to be used in high temperature applications where tape or other molded grommets are used. One strip of this side entry bushing replaces as much as 6 feet and 40 wraps of traditional tapes. The material is crosslinked and thermoformed to naturally conform to the tight bundle configuration of its application. The standard side entry bushing has no adhesive layer, so it is easily removed and can be re-used often after repairs have been made.

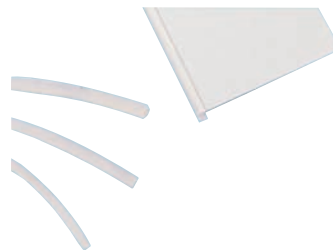
- Material: Silicone elastomer
- Operating temperature: -75°C to 180°C
- Colour: Black

Mfrs. List No.	Height	Dimensions (mm) Width	Length	Bundle Outside Diameter (Min)
SEB-A	10.2	1.5	25.4	1.3
SEB-B	10.2	1.5	50.8	1.3
SEB-C	12.7	1.5	76.2	1.3
SEB-D	15.2	1.5	101.6	2.5
SEB-E	15.2	1.5	152.4	7.6
SEB-F	15.2	1.5	228.6	7.6

636170

Mfrs. List No.	Order Code	1+	5+	10+
SEB-A	189-1489			
SEB-B	189-1490			
SEB-C	189-1491			
SEB-D	189-1493			
SEB-E	189-1494			
SEB-F	189-1495			

Panel Edging



A versatile method of protection from raw metal edges of panels, racks and cabinets, grommet strip may be used along straight or formed curved edges. It may also be used to form internal protection for cut-outs, either round or rectangular.

Material: Polyethylene
Operating temperature: -50°C to +50°C

224117

Panel Thickness	Order Code	1+	5+	10+	25+	50+
1.15 — 1.4	127-9031					
2.05 — 2.3	127-9032					

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Cable Glands

Cable Gland Skintop® Click



SKINTOP® Click, the most innovative cable entry system on the market for fastest mounting, with all the reliable attributes of the world renowned Skintop Cable Gland range. Click in - turn left - turn right - done. Skintop Click-R with reducing seal for smaller clamping ranges.

Mounting Thread (mm)	Cable Diameter (mm)	Length (mm)	Wall Thickness (mm)
M12	3.5 - 7	40	1 - 4
M16	5 - 9	42	1 - 4
M20	7 - 13	45.5	1 - 4
M25	9 - 17	48.5	1 - 4
M32	11 - 21	55	1 - 4

Mfrs. List No.	Size	Pack Qty	Order Code	Price Per Pack	
				1+	5+
Light Grey					
53112921	M12	10	161-7820		
53112686	M16	50	128-6008		
53112687	M20	25	128-6009		
53112688	M25	25	128-6010		
53112922	M32	10	161-7821		
Silver Grey					
53112876	M16	50	150-4024		
53112877	M20	25	150-4025		
53112878	M25	25	150-4026		
Black					
53112923	M12	10	161-7822		
53112882	M16	50	150-4027		
53112883	M20	25	150-4028		
53112884	M25	25	150-4029		
53112924	M32	10	161-7823		
Each Pack includes 1 removal tool					

491258

Mfrs. List No.	Size	Order Code	Price Each
			1+
Light Grey			
53112921	M12	161-7830	
53112686	M16	128-6061	
53112687	M20	128-6062	
53112688	M25	128-6063	
53112922	M32	161-7831	
Silver Grey			
53112876	M16	150-4188	
53112877	M20	150-4189	
53112878	M25	150-4190	
Black			
53112923	M12	161-7832	
53112882	M16	150-4191	
53112883	M20	150-4192	
53112884	M25	150-4193	
53112924	M32	161-7833	
Removal Tool			
53112696	M12	162-7135	
53112697	M16	150-4205	
53112698	M20	150-4206	
53112699	M25	150-4207	
53112797	M32	162-7136	

Skintop MSR / MSR-M



- Brass glands with reducing seal insert
- Nickel plated
- Sealing ring Neoprene
- O/Ring Pebunan
- Protection class **IP68** (5 bar)
- Temperature range: -30°C to +100°C

Mfrs. List No.	Thread	Cable Dia. (mm)	A/F Size	Order Code
52015770	PG7	2-5	14	117-8960
52015780	PG9	2-6	17	117-8961
52015790	PG11	3-7	20	117-8962
52015800	PG13.5	4-9	22	117-8963
52015810	PG16	6-13	24	117-8964
52015820	PG21	8-16	30	117-8965
52015830	PG29	10.5-20	40	117-8966
52015831	PG36	19-26	50	117-8967
52015832	PG42	24-31	57	117-8968
53112100	M12 x 1.5	1-5	16	117-8971
53112110	M16 x 1.5	2-7	20	117-8972
53112120	M20 x 1.5	5-10	24	117-8974
53112130	M25 x 1.5	6-13	29	117-8975
53112140	M32 x 1.5	7-15	36	117-8976
53112150	M40 x 1.5	15-23	45	117-8977
53112160	M50 x 1.5	22-29	54	117-8978
53112170	M63 x 1.5	28-39	67	117-8979

624051

Mfrs. List No.	Order Code	Price Each			
		1+	10+	50+	100+
52015770	117-8960				
52015780	117-8961				
52015790	117-8962				
52015800	117-8963				
52015810	117-8964				
52015820	117-8965				
52015830	117-8966				
52015831	117-8967				
52015832	117-8968				
53112100	117-8971				
53112110	117-8972				
53112120	117-8974				
53112130	117-8975				
53112140	117-8976				
53112150	117-8977				
53112160	117-8978				
53112170	117-8979				

Enlargers



Skindicht® ME-M ATEX



Enables the use of cable glands with larger connection threads than the existing threaded holes.

NEW

- Body Material: Brass
- O-Ring Material: NBR
- Plating: Nickel
- With guide notch for O-ring
- Assembling with wrench
- Temperature range: -30°C to 90°C

Application:

- Equipment group II / Category 2G+1D
- Devices, machines and apparatus
- Mobile offshore and marine applications
- Chemical and petrochemical industry

618260

Mfrs. List No.	Thread		Pack Qty	Order Code	Price Per Pack		
	Male	Female			1+	5+	10+
52104580	M12 x 1.5	M16 x 1.5	10	185-2388			
52104581	M16 x 1.5	M20 x 1.5	10	185-2389			
52104582	M20 x 1.5	M25 x 1.5	10	185-2390			
52104583	M25 x 1.5	M32 x 1.5	10	185-2391			
52104584	M32 x 1.5	M40 x 1.5	5	185-2392			
52104585	M40 x 1.5	M50 x 1.5	5	185-2393			

Mfrs. List No.	Thread		Order Code	Price Each
	Male	Female		1+
52104580	M12 x 1.5	M16 x 1.5	185-2480	
52104581	M16 x 1.5	M20 x 1.5	185-2481	
52104582	M20 x 1.5	M25 x 1.5	185-2482	
52104583	M25 x 1.5	M32 x 1.5	185-2483	
52104584	M32 x 1.5	M40 x 1.5	185-2484	
52104585	M40 x 1.5	M50 x 1.5	185-2485	

Reducers



Skindicht® MR-M ATEX



Enables the use of cable glands with smaller connection threads than the existing threaded holes.

NEW

- Body Material: Brass
- O-Ring Material: NBR
- Plating: Nickel
- With guide notch for O-ring
- Assembling with wrench
- Temperature range: -30°C to 90°C

Application:

- Equipment group II / Category 2G+1D
- Devices, machines and apparatus
- Mobile offshore and marine applications
- Chemical and petrochemical industry

Reducers - continued

Skindicht® MR-M ATEX - continued

Mftrs.	Thread		Pack	Price Per Pack			
List No.	Male	Female	Qty	Order Code	1+	5+	10+
52104570	M16 x 1.5	M12 x 1.5	10	185-2394			
52104571	M20 x 1.5	M16 x 1.5	10	185-2396			
52104572	M25 x 1.5	M20 x 1.5	10	185-2397			
52104573	M32 x 1.5	M25 x 1.5	5	185-2398			
52104574	M40 x 1.5	M32 x 1.5	5	185-2399			
52104575	M50 x 1.5	M40 x 1.5	5	185-2400			

Mftrs.	Thread		Price Each		
List No.	Male	Female	Order Code	1+	
52104570	M16 x 1.5	M12 x 1.5	185-2487		
52104571	M20 x 1.5	M16 x 1.5	185-2488		
52104572	M25 x 1.5	M20 x 1.5	185-2489		
52104573	M32 x 1.5	M25 x 1.5	185-2490		
52104574	M40 x 1.5	M32 x 1.5	185-2491		
52104575	M50 x 1.5	M40 x 1.5	185-2492		



IP66 - Nylon

M13 thread



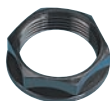
M16/M20 thread

A range of Nylon 66 compression glands complete with lock nut and soft Nylon washer. Designed for use with circular PVC and rubber cable the gland provides a waterproof entry and strain relief to IP66. Available in Black or White.

Maximum panel thickness	3.5	Operating temperature	-20°C to +100°C		
Cable Dia. (mm)	Mounting Thread Size	Mounting Thread Length (mm)	Front Panel Projection (mm)	Order Code	Black Order Code
5-7	M13 x 1	8	21	143-607	218-285
4-7	M20 x 1.5	8	21	151-831	218-297
7-10.5	M16 x 1.5	10	25	143-608	218-303
7-10.5	M20 x 1.5	10	25	151-832	218-315
8-13	M20 x 1.5	11	31	143-609	218-327

Order Multiple=5	Price Each					
Black Cable Dia. (mm)	Order Code	5+	50+	100+	500+	1K+
5-7	143-607					
4-7	151-831					
7-10.5	143-608					
7-10.5	151-832					
8-13	143-609					
White	Order Code	5+	50+	100+	500+	1K+
5-7	218-285					
4-7	218-297					
7-10.5	218-303					
7-10.5	218-315					
8-13	218-327					

Cord Grip Bushes



- Moulded in Black Nylon 66
- Reversible clamping bar for wide cable diameter range
- Compatible with IP66 Nylon glands above
- Optional locknuts available separately
- Flame retardant to UL94V-2

Operating temperature -10 °C to 90 °C

Mounting Thread Size	Cable Diameter (mm)	Mounting Thread Length (mm)	Overall Length (mm)	A/F Size	Bush Order Code	Locknut Order Code
M16 x 1.5	3.5-11	9	23.5	19	303-0740	303-0775
M20 x 1.5	4-14.5	12	29.5	23	303-0751	303-0787
M25 x 1.5	8-18	12	29.5	27	303-0763	303-0799

Order Multiple=10	Price Each				
Thread Size	Order Code	10+	50+	100+	500+
M16 x 1.5	303-0740				
M20 x 1.5	303-0751				
M25 x 1.5	303-0763				
Locknuts	Order Code	10+	50+	100+	500+
M16 x 1.5	303-0775				
M20 x 1.5	303-0787				
M25 x 1.5	303-0799				



- A range of compression cable glands with IP68 sealed cable entry
- Available in Metric and PG thread
- Only supplied with lock nut
- Manufactured from Nylon 66

Thread Size	Cable Diameter (mm)	Thread Length (mm)	Colour	Order Code
PG7	3-6.5	8	Grey	162-1060
PG9	4-8	8	Grey	162-1062
PG11	5-10	8	Grey	162-1064
PG13.5	6-12	9	Grey	162-1065
PG16	10-14	10	Grey	162-1066
PG21	13-18	10	Grey	162-1067
PG29	18-25	12	Grey	162-1068
M12	3-6.5	8	Black	162-1069
M16	4-8	8	Black	162-1070
M20	6-12	9	Black	162-1071
M25	13-18	10	Black	162-1072
M32	14-21	11	Black	162-1073
M40	22-32	17.7	Black	126-9065
M50	30-38	17.3	Black	126-9066
M63	34-44	18.5	Black	126-9067

10 Per Pack	Price Per Pack						
Thread Size	Order Code	1+	5+	10+	25+	50+	100+
Grey							
PG7	162-1060						
PG9	162-1062						
PG11	162-1064						
PG13.5	162-1065						
PG16	162-1066						
PG21	162-1067						
PG29	162-1068						
Black							
M12	162-1069						
M16	162-1070						
M20	162-1071						
M25	162-1072						
M32	162-1073						

Price Each							
Thread Size	Order Code	1+	5+	50+	100+	250+	500+
Black							
M40	126-9065						
M50	126-9066						
M63	126-9067						

Brass Gland and Locknut



- A range of IP68 sealed cable glands
- Available in Metric thread
- Lock nut supplied separately

The gland make-up consists of:

Dome nut	Nickel Plated Brass
Body	Nickel Plated Brass
Seal	NBR
O-ring	Buna-N

Technical features:

Connecting thread	M12 x 1.5 up to M63 x 1.5
IP protection	IP68
Clamping range	3 mm up to 48 mm
Temperature range	-40°C to +100°C (static), -20°C to +80°C (dynamic)

		Cable		Pack	Price Per Pack		
Size	Diameter	Qty	Order Code	1+	5+	10+	
Gland							
M12 x 1.5	3 - 6.5mm	50	177-4422				
M16 x 1.5	4.5 - 10mm	50	177-4423				
M20 x 1.5	6 - 12mm	50	177-4424				
M25 x 1.5	9 - 17mm	25	177-4425				
M32 x 1.5	11 - 21mm	25	177-4427				
M40 x 1.5	19 - 28mm	10	177-4428				
M50 x 1.5	27 - 35mm	5	177-4429				
M63 x 1.5	34 - 48mm	5	177-4430				
Locknut							
M12		50	177-4431				
M16		50	177-4432				
M20		50	177-4433				
M25		25	177-4434				
M32		25	177-4435				
M40		10	177-4436				
M50		5	177-4437				
M63		5	177-4439				

IP68 - Nylon - 'Perfect'

Dome Top - with Locknut



A range of VDE approved compression type polyamide cable glands, available in Grey with PG thread or Black with Metric thread. Designed for use with circular PVC or rubber cables and provides protection to IP68 when spanner tightened.

- Supplied complete with locknut
- Wide clamping range available

Mounting Thread Size (mm)	Cable Diameter (mm)	Mounting Thread Length (mm)	Colour	Bush
PG7	3-6.5	8	Grey	116-8775
PG9	4-8	8	Grey	116-8777
PG11	5-10	8	Grey	116-8778
PG13.5	6-12	9	Grey	116-8779
PG16	10-14	10	Grey	116-8780
M12 x 1.5	3-6.5	8	Black	116-8781
M16 x 1.5	5-10	15	Black	116-8783
M20 x 1.5	6-12	10	Black	116-8784
M25 x 1.5	10-14	15	Black	116-8785
M25 x 1.5	13-18	15	Black	116-8786

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Order Multiple=5

Price Each

Thread size	Order Code	5+	50+	100+	500+	1K+
Grey PG7	116-8775					
PG9	116-8777					
PG11	116-8778					
PG13.5	116-8779					
PG16	116-8780					
Black M12 x 1.5	116-8781					
M16 x 1.5	116-8783					
M20 x 1.5	116-8784					
M20 x 1.5	116-8785					
M25 x 1.5	116-8786					

HSK-K-Ex Cable Glands



- Nylon glands
- Buna-N seal
- Buna-N O-ring
- Rugged and dependable design
- Protection class IP69K

- Temperature range: -20°C to 95°C



HUMMEL complements its HSK-K series with a black polyamide plastic tested according to UL746C ULF1. The product shows a significantly improved fitness with respect to effects of UV radiation and water. ULF1 Standard allows a broader scope of application for HUMMEL fittings, especially outdoors. Examples of application are solar, photovoltaic and wind power plants. The HUMMEL AG places high demands on quality, on the material and on the properties of cable glands. The result is that HSK glands meet and exceed all common requirements such as fire protection, sealing, strain relief. Depending on the design, HSK glands thus attain the fire protection class V0 and the IP protection class IP68 to 10 bar and 69K.

Thread	Cable Dia. (mm)	AF Size (mm)	Mftrs. List No.	
			Grey	Black
M12 x 1.5	3 - 6.5	15	1291120050	1291120150
M16 x 1.5	3 - 6	19	1291160051	1291160151
M16 x 1.5	5 - 10	22	1295160050	1295160150
M20 x 1.5	5 - 9	24	1291200051	1291200151
M20 x 1.5	10 - 14	27	1295200050	1295200150
M25 x 1.5	13 - 18	33	1291250050	1291250150
M25 x 1.5	9 - 16	33	1291250051	1291250151
M32 x 1.5	18 - 25	42	1291320050	1291320150
M32 x 1.5	13 - 20	42	1291320051	1291320151
M40 x 1.5	22 - 32	53	1291400050	1291400150
M40 x 1.5	20 - 26	53	1291400051	1291400151

526880

Mftrs. List No.	Thread	Qty	Order Code	1+	5+	10+
Gland - Grey						
1291120050	M12	50	167-7981			
1291160051	M16	50	167-8003			
1295160050	M16	50	167-8004			
1291200051	M20	50	167-8005			
1295200050	M20	50	167-8006			
1291250050	M25	50	167-8007			
1291250051	M25	50	167-8008			
1291320050	M32	25	167-8009			
1291320051	M32	25	167-8010			
1291400050	M40	10	167-8011			
1291400051	M40	10	167-8013			
Gland - Black						
1291120150	M12	50	167-8014			
1291160151	M16	50	167-8015			
1295160150	M16	50	167-8016			
1291200151	M20	50	167-8017			
1295200150	M20	50	167-8018			
1291250150	M25	50	167-8019			
1291250151	M25	50	167-8020			
1291320150	M32	25	167-8021			

Mftrs. List No.	Thread	Qty	Order Code	1+	5+	10+
Gland - Black						
1291320151	M32	25	167-8022			
1291400150	M40	10	167-8023			
1291400151	M40	10	167-8025			
Locknut - Grey						
1262120050	M12	100	167-8026			
1262160050	M16	100	167-8027			
1262200050	M20	100	167-8028			
1262250050	M25	100	167-8029			
1262320050	M32	50	167-8031			
1262400050	M40	25	167-8032			
Locknut - Black						
1262120150	M12	100	167-8033			
1262160150	M16	100	167-8034			
1262200150	M20	100	167-8035			
1262250150	M25	100	167-8037			
1262320150	M32	50	167-8038			
1262400150	M40	25	167-8039			

Strain Relief Cable Gland

Skintop® Click



The polyamide-based SKINTOP® CLICK BS with its snap-system and bending protection enables a very fast and easy assembly and the integral locking features guarantees permanent vibration resistance. It is designed for use, above all for particular functional safety in hand-held equipment, flexing machine parts, apparatus engineering, light and sound applications and robotics industry.

- Unique click system for fast mounting
- Operating temperature: -20°C to 100°C
- Protection class IP68
- Polyamide construction

Mounting Thread (mm)	Cable Diameter (mm)	Length (mm)	Wall Thickness (mm)
M12	3.5 - 7	74	1 - 4
M16	5 - 9	94	1 - 4
M20	7 - 13	108	1 - 4
M25	9 - 17	127	1 - 4
M32	11 - 21	155	1 - 4

Mftrs. List No.	Size	Pack qty	Order Code	1+	5+
Grey					
53112934	M12	10	161-7824		
53112906	M16	50	150-4030		
53112907	M20	25	150-4031		
53112908	M25	25	150-4033		
53112935	M32	10	161-7826		
Black					
53112936	M12	10	161-7827		
53112909	M16	50	150-4035		
53112911	M20	25	150-4036		
53112912	M25	25	150-4037		
53112937	M32	10	161-7828		

Each Pack includes 1 removal tool

491021

Mftrs. List No.	Size	Order Code	1+
Grey			
53112934	M12	161-7834	
53112906	M16	150-4194	
53112907	M20	150-4195	
53112908	M25	150-4196	
53112935	M32	161-7835	
Black			
53112936	M12	161-7836	
53112909	M16	150-4197	
53112911	M20	150-4199	
53112912	M25	150-4200	
53112937	M32	161-7838	
Removal Tool			
53112696	M12	162-7135	
53112697	M16	150-4205	
53112698	M20	150-4206	
53112699	M25	150-4207	
53112797	M32	162-7136	

Cable Glands - continued

Skintop® BS-M Strain Relief Gland



SKINTOP® BS-M with polyamide spiral strain relief, is used for flexible cables and handheld equipment, moving machine parts and in many applications of the instrument industry.

- Wide cable clamping range
- Protection class IP68-5bar
- Operating temperature -20°C to 100°C max
- Polyamide construction

Mounting thread size	Cable diameter	Mounting thread size	Cable diameter
BS-M 12 x 1.5	3.5 - 7mm	BS-M 25 x 1.5	9 - 17mm
BS-M 16 x 1.5	4.5 - 10mm	BS-M 32 x 1.5	11 - 21mm
BS-M 20 x 1.5	7 - 13mm		

Grey				Price Per Pack	
Mfrs. List No.	Size	Pack qty	Order Code	1+	5+
53111600	BS-M 12 x 1.5	100	128-5994		
53111610	BS-M 16 x 1.5	100	128-5995		
53111620	BS-M 20 x 1.5	50	128-5996		
53111630	BS-M 25 x 1.5	25	128-5997		
53111640	BS-M 32 x 1.5	25	128-5998		

Black			
53111740	BS-M 32 x 1.5	100	128-5999

Grey			Price Each	
Mfrs. List No.	Size	Order Code	1+	
53111600	BS-M 12 x 1.5	128-6049		
53111610	BS-M 16 x 1.5	128-6050		
53111620	BS-M 20 x 1.5	128-6051		
53111630	BS-M 25 x 1.5	128-6052		
53111640	BS-M 32 x 1.5	128-6053		

Black			
53111700	BS-M 12 x 1.5	120-4195	
53111710	BS-M 16 x 1.5	120-4196	
53111720	BS-M 20 x 1.5	120-4197	
53111730	BS-M 25 x 1.5	120-4198	
53111740	BS-M 32 x 1.5	128-6054	

IP68 - Nylon - 'Perfect'

Spiral Top



A range of cable glands similar to the dome top glands but with an integral flexible cable protector to prevent excessive bending at the cable entry point. Available in Grey with PG thread or Black with Metric thread. Provides protection to IP68 when spanner tightened.

- Supplied complete with locknut
- PG thread sizes VDE approved

Operating temperature -30°C to +100°C

Mounting		Cable		Mounting		Colour	Order Code
Thread Size	Diameter (mm)	Thread Length (mm)	Thread Length (mm)	Thread Length (mm)	Thread Length (mm)		
PG7	3-6.5	8	8	8	8	Grey	116-8787
PG9	4-8	8	8	8	8	Grey	116-8788
PG11	5-10	8	8	8	8	Grey	116-8789
PG13.5	6-12	9	9	9	9	Grey	116-8790
M12 x 1.5	3-6.5	8	8	8	8	Black	116-8791
M16	5-10	15	15	15	15	Black	116-8792
M20	6-12	11	11	11	11	Black	116-8793

Thread Size		Price Each	
Order Code	5+	50+	100+
PG7	116-8787		
PG9	116-8788		
PG11	116-8789		
PG13.5	116-8790		
M12 x 1.5	116-8791		
M16	116-8792		
M20	116-8793		

Strain Relief Gland



Nylon 66 spiral strain relief glands, are used for flexible cables and handheld equipment, moving machine parts and in many applications of the instrument industry.

- Wide cable clamping range
- Manufactured from Black UL approved (UL94V-2) Nylon 66

Mfrs. List No.	Thread Size	Mouting Hole Diameter (mm)	Pitch (mm)	Cable Diameter Max. (mm)	Pack Qty	Order Code
AG12SR	M12	12	1.25	6.9	50	177-3433
AG16SR	M16	16	1.5	10.5	50	177-3435
AG20SR	M20	20	1.5	14.8	50	177-3436
AG-25SR	M25	25	1.5	18.4	25	177-3437
EG7SR	PG7	12.5	-	6.9	50	177-3438
EG9SR	PG9	15.2	-	8	50	177-3439
EG11SR	PG11	18.3	-	10.5	50	177-3440
EG13.5SR	PG13.5	20.4	-	12	50	177-3441
EG16SR	PG16	22.5	-	14	50	177-3442
EG21SR	PG21	28.3	-	18.4	25	177-3443

Price Per Pack					
Mfrs. List No.	Order Code	1+	5+	10+	25+
AG12SR	177-3433				
AG16SR	177-3435				
AG20SR	177-3436				
AG-25SR	177-3437				
EG7SR	177-3438				
EG9SR	177-3439				
EG11SR	177-3440				
EG13.5SR	177-3441				
EG16SR	177-3442				
EG21SR	177-3443				

Nickel Plated Brass EMC Cable Glands & Locknuts



- Full 360° EMC shielding
- Brass nickel plated body and locknut
- Comes complete with EMC locknut and assembly instructions
- Long thread for use on thick or standard panels
- Inner cable protection and Neoprene seal
- Protection class to IP68/5 bar
- Temperature range: -40°C up to 100°C permanent

Mfrs. List No.	Thread Size	Cable Diameter Range	Length of Thread	Order Code
M12X1.5 EMC	M12	3 to 6.5mm	12mm	117-4573
M16X1.5 EMC	M16	5 to 10mm	12mm	117-4574
M20X1.5 EMC	M20	6 to 12mm	12mm	117-4576
M25X1.5 EMC	M25	10 to 14mm	12mm	117-4577
M32X1.5 EMC	M32	13 to 18mm	15mm	117-4578
M40X1.5 EMC	M40	18 to 25mm	15mm	117-4579
M50X1.5 EMC	M50	22 to 32mm	15mm	117-4580
M63X1.5 EMC	M63	34 to 44mm	18mm	117-4581
EMCPG7	PG7	3 to 6.5mm	10mm	117-4582
EMCPG9	PG9	4 to 8mm	10mm	117-4583
EMCPG11	PG11	5 to 10mm	10mm	117-4584
EMCPG13.5	PG13.5	6 to 12mm	10mm	117-4585
EMCPG16	PG16	10 to 14mm	10mm	117-4586
EMCPG21	PG21	13 to 18mm	12mm	117-4588
EMCPG36	PG36	22 to 32mm	14mm	117-4591

Order Code		Size	Price Each	
			1+	3+
117-4573		M12		
117-4574		M16		
117-4576		M20		
117-4577		M25		
117-4578		M32		
117-4579		M40		
117-4580		M50		
117-4581		M63		
117-4582		PG 7		
117-4583		PG 9		
117-4584		PG 11		
117-4585		PG 13.5		
117-4586		PG 16		
117-4588		PG 21		
117-4591		PG 36		

EMC Nickel Plated Brass Glands



- Supplied complete with locknuts
- Brass glands
- Nickel plated
- Polyamide sealing ring
- O/Ring: NBR
- Protection class IP68
- For EMC compliant earthing of the copper braiding and copper shaft sheath

- Suitable for cables and wires with and without inner sheath
- Temperature range: -30°C to +100°C

Mftrs. List No.	Thread Size	Cable Diameter (mm)		Order Code
		Min.	Max.	
53112610 + 52103000	M12 x 1.5	3.5	7	182-1197
53112620 + 52103010	M16 x 1.5	4.5	9	182-1198
53112630 + 52103020	M20 x 1.5	7	12.5	182-1199
53112640 + 52103030	M25 x 1.5	9	16.5	182-1200
53112650 + 52103040	M32 x 1.5	11	21	182-1201
53112660 + 52103050	M40 x 1.5	19	28	182-1202
53112670 + 52103060	M50 x 1.5	27	35	182-1203
53112210 + 52003500	PG9	3	8	182-1204
53112220 + 52003510	PG11	4	10	182-1205
53112230 + 52003520	P13.5	5	12	182-1206
53112240 + 52003530	PG16	8	14	182-1207
53112250 + 52003540	PG21	11	17.5	182-1208

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10 Per Pack		Price Per Pack		
Mftrs. List No.	Order Code	1+	5+	10+
53112610 + 52103000	182-1197			
53112620 + 52103010	182-1198			
53112630 + 52103020	182-1199			
53112640 + 52103030	182-1200			
53112650 + 52103040	182-1201			
53112660 + 52103050	182-1202			
53112670 + 52103060	182-1203			
53112210 + 52003500	182-1204			
53112220 + 52003510	182-1205			
53112230 + 52003520	182-1206			
53112240 + 52003530	182-1207			
53112250 + 52003540	182-1208			

Nylon Metric (Anti-Vibration) Cable Glands & Locknuts



The Tyco Electronics nylon cable glands and locknuts are designed with anti-vibration top caps. This assists in areas where vibration could be a problem, although the cap when tightened is locked it can be un-screwed and re-tightened.

- Anti vibration cap
- Gland comes complete with locknut
- Zero Halogen polyamide 6
- Neoprene seal
- Protection class to IP68/5 bar
- Temperature range: -30°C up to 80°C permanent
- Operating temperature up to 150°C intermittent
- VDE compliant
- Available in: Black, Grey, Red & White

Thread	Cable Diameter	Length of Thread	Width Across Flats
Cable Glands			
M12	4.0 – 6.5mm	8 mm	15mm
M16	5.0 – 10.0mm	10mm	22mm
M20	6.0 – 12.0mm	10mm	24mm
M20 +	10.0 – 14.0mm	10mm	27mm
M25	13.0 – 18.0mm	10mm	33mm
M32	18.0 – 25.0mm	18mm	42mm
M50	30.0 – 38.0mm	18mm	60mm

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		Price Each	
Order Code	Size	1+	3+
Grey			
117-4592	M12		
117-4593	M16		
117-4594	M20		
117-4595	M20 +		
117-4596	M25		
Black			
117-4601	M12		
117-4602	M16		
117-4603	M20		
117-4604	M20 +		
117-4606	M25		
117-4607	M32		
White			
117-4614	M16		
117-4615	M20		

INTELLIGENT ONLINE BUYING SYSTEM PROVIDING



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IP68 - Nylon - SKINTOP®



- High performance compression cable glands in Silver Grey polyamide (RAL 7001)
- PG or Metric thread sizes
- Protection to IP68 (5 bar)
- VDE, CSA and SEV approved

Operating temperature -20°C to +80°C

Mounting Thread Size	Cable Dia. (mm)	Mounting Thread Length (mm)	A/F Size Body	Mftrs. List No.	Order Code
PG7	2.5-6.5	8	15	53015000	117-8859
PG9	3.5-8	8	19	53015010	117-8860
PG11	4-10	8	22	53015020	117-8861
PG13.5	6-12	9	24	53015030	117-8862
PG16	9-14	10	27	53015040	117-8863
PG21	13-18	11	33	53015050	117-8864
PG29	14-25	11	42	53015060	117-8865
PG36	24-32	13	53	53015070	117-8867
M12 x 1.5	3.5-7	8	15	53111000	117-8868
M16 x 1.5	4.5-10	8	19	53111010	117-8869
M20 x 1.5	7-13	9	25	53111020	117-8870
M25 x 1.5	9-17	10	30	53111030	117-8871
M32 x 1.5	11-21	10	36	53111040	117-8872
M40 x 1.5	19-28	10	46	53111050	117-8873
M50 x 1.5	27-35	12	55	53111060	117-8874
M63 x 1.5	34-45	12	56	53111070	117-8875

231139

		Price Each			
Thread Size	Order Code	1+	10+	50+	100+
PG7	117-8859				
PG9	117-8860				
PG11	117-8861				
PG13.5	117-8862				
PG16	117-8863				
PG21	117-8864				
PG29	117-8865				
PG36	117-8867				
M12 x 1.5	117-8868				
M16 x 1.5	117-8869				
M20 x 1.5	117-8870				
M25 x 1.5	117-8871				
M32 x 1.5	117-8872				
M40 x 1.5	117-8873				
M50 x 1.5	117-8874				
M63 x 1.5	117-8875				

Skintop® ST-HF-M



V0 - Halogen Free Cable Gland



- Metric thread
- Body: Polyamide
- Colour: Light Grey (RAL7035)
- Protection class IP68
- Temperature range: -20°C to +100°C
- Self-extinguishing, no dripping
- Halogen free glands come in kits with the locknuts included
- VDE, EN approval

Thread Size	Clamping Range (mm)	Gland A/F Size (mm)	Length (mm)	Thread Length (mm)	Nut A/F Size (mm)
	Min	Max			
M12 x 1.5	4	5.5	15	30	8
M16 x 1.5	4.5	9	19	34	8
M20 x 1.5	7	13	25	37	9
M25 x 1.5	9	17	30	40	10
M32 x 1.5	11	21	36	47	10

503083

10 Per Pack		Price Per Pack		
Thread Size	Order Code	1+	10+	25+
M12 x 1.5	155-4650			
M16 x 1.5	155-4651			
M20 x 1.5	155-4652			
M25 x 1.5	155-4653			
M32 x 1.5	155-4654			

FREE GLOBAL LEGISLATION SUPPORT



RoHS, REACH, WEEE, ErP, Batteries Directive - latest updates, free white papers and live online Q&A at element14.com/legislation

Cable Glands - continued

VentGLAND®



- VentGLAND® is cable gland and pressure compensation in one
- No extra components, installation or drilling
- High protection degree of IP69K
- Easy replacement of a standard gland due to identical sizes
- Economical, high-quality, long-lasting, reliable

Mfrs. List No.	Size	Thread Length (mm)	Sealing Range (mm)	Wrench Size (mm)
Polyamide				
ESVG20 BLK	M20 x 1.5	10	6 - 13	24
ESVG20 GRY	M20 x 1.5	10	6 - 13	24
ESVG25 BLK	M25 x 1.5	7	9 - 17	29
ESVG25 GRY	M25 x 1.5	7	9 - 17	29
ESVG32 BLK	M32 x 1.5	8	13 - 21	36
ESVG32 GRY	M32 x 1.5	8	13 - 21	36
Stainless Steel				
ESSVG20	M20 x 1.5	6	6 - 13	24
EMSVG25	M25 x 1.5	7	9 - 17	29
EMSVG32	M32 x 1.5	8	13 - 21	36
Nickel-plated Brass				
EMSVG20	M20 x 1.5	6	6 - 13	24
ESSVG25	M25 x 1.5	7	9 - 17	29
ESSVG32	M32 x 1.5	8	13 - 21	36

554066

Mfrs. List No.	Thread Size	Order Code	1+	5+	10+
Gland - Polyamide					
ESVG20 BLK	M20 x 1.5	178-0988	●		
ESVG20 GRY	M20 x 1.5	178-0989	●		
ESVG25 BLK	M25 x 1.5	178-0993	●		
ESVG25 GRY	M25 x 1.5	178-0994	●		
ESVG32 BLK	M32 x 1.5	178-0997	●		
ESVG32 GRY	M32 x 1.5	178-0998	●		
Gland - Stainless Steel					
ESSVG20	M20 x 1.5	178-0991	●		
EMSVG25	M25 x 1.5	178-0996	●		
EMSVG32	M32 x 1.5	178-1000	●		
Gland - Nickel-plated Brass					
EMSVG20	M20 x 1.5	178-0990	●		
ESSVG25	M25 x 1.5	178-0995	●		
ESSVG32	M32 x 1.5	178-0999	●		
Locknut - Polyamide					
EMUG 20 BLK	M20 x 1.5	179-7632	●		
EMUG 20 GRY	M20 x 1.5	179-7634	●		
EMUG 25 BLK	M25 x 1.5	179-7637	●		
EMUG 25 GRY	M25 x 1.5	179-7638	●		
EMUG 32 BLK	M32 x 1.5	179-7641	●		
EMUG 32 GRY	M32 x 1.5	179-7642	●		
Locknut - Stainless Steel					
ESMU 20	M20 x 1.5	179-7636	●		
ESMU 25	M25 x 1.5	179-7640	●		
ESMU 32	M32 x 1.5	179-7644	●		
Locknut - Nickel-plated Brass					
EMMU 20	M20 x 1.5	179-7635	●		
EMMU 25	M25 x 1.5	179-7639	●		
EMMU 32	M32 x 1.5	179-7643	●		

SKINTOP® KR1-M; K-M ATEX Black

For explosion-hazard areas in accordance with ATEX 100a



K-M EExe II ATEX

KR1-M EExe II ATEX

Design and type corresponding to the proven SKINTOP® ST with multiple-start trapezoidal thread for quick installation and with patented vibration protection. This cable screw union was developed especially for use on electrical equipment in explosion-hazard areas to degree of protection "e". The SKINTOP® K-M are approved in accordance with DIN EN 50014 and EN 50019, and the tested characteristics include, in particular:

- Cold impact resistance -20°C
- Cable grip
- Ingress protection

Fields of use are appliances, machines and installations with enhanced safety in terms of ingress protection, for example in the chemical and petrochemical industry.

KR1-M EExe II ATEX is equipped with a reducing sealing insert which seals small external diameter cables and lines.

Mfrs. List No.	Thread M	Clamping range (mm)	Wrench size	C (mm)	D (mm)	Order Code
KR1-M						
54115215	M16 x 1.5	4-6	19	29/34	8	120-4370
54115225	M20 x 1.5	5-10	25	34/37	9	120-4372
K-M						
54115210	M16 x 1.5	7-9	19	29/34	8	120-4240
54115220	M20 x 1.5	7-13	25	34/37	9	120-4241
54115230	M25 x 1.5	11-17	30	35/40	10	120-4242

Techn. data:

Material: Polyamide (KR1-M halogenfree)
 Colour: Black RAL9005, UV resistant
 Temperature-range: -20°C to +75°C (+80°C: KR1-M)
 Protection class: IP64 - 5 bar
 Certification code: DMT 03 ATEX E 044X (K-M)
 PTB01ATEX 3100X (KR1-M)

238931

Thread	Order Code	Price Each			
		1+	10+	50+	100+
KR1-M EExe II ATEX					
M16 x 1.5	120-4370	●			
M20 x 1.5	120-4372	●			
K-M EExe II ATEX					
M16 x 1.5	120-4240	●			
M20 x 1.5	120-4241	●			
M25 x 1.5	120-4242	●			

Skintop® K-M EExe II ATEX Gland Blue



SKINTOP®K-M ATEX is a special cable gland, made of polyamide. It is designed for use with electrical equipment in areas with risk of explosion which require class "e" security. (DIN / EN 50014 and DIN / EN 50019).

- Wide cable clamping range
- Protection class IP64
- Operating temperature -20°C to 80°C max
- Polyamide construction

Mounting thread size	Cable diameter	Mounting thread size	Cable diameter
M12 x 1.5	3 - 5.5mm	M20 x 1.5	7 - 13mm
M16 x 1.5	7 - 9mm	M25 x 1.5	11 - 17mm

Mfrs. List No.	Size	Pack qty	Order Code	Price Per Pack	
				1+	5+
54115400	M12 x 1.5	50	128-6000	●	
54115410	M16 x 1.5	50	128-6001	●	
54115420	M20 x 1.5	50	128-6002	●	
54115430	M25 x 1.5	25	128-6003	●	

449345

Mfrs. List No.	Size	Order Code	Price Each
			1+
54115400	M12 x 1.5	128-6056	●
54115410	M16 x 1.5	128-6057	●
54115420	M20 x 1.5	128-6058	●
54115430	M25 x 1.5	128-6059	●

Skintop® Mini Gland



SKINTOP® Mini is a cable gland made of nickel-plated brass, which guarantees the safe mounting of small diameter cables through its low installation height. The use is predominantly in signal transmission, data transfer, measurement, control technology as well as in medical technology and communications engineering.

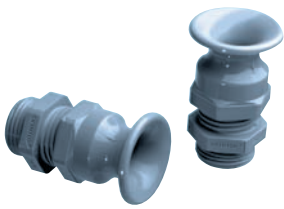
- Safe mounting of cables with small diameters
- Protection class IP68 -5bar
- Operating temperature -30°C to 100°C max
- Nickel plated brass construction

Mfrs. List No.	Mounting thread size	Cable diameter
52001860	M6	2 - 3mm
52001880	M8	3.5 - 5.5mm

449346

Mfrs. List No.	Size	Order Code	Price Each
			1+
52001860	M6	120-4193	●
52001880	M8	120-4194	●

IP68 - Nylon - SKINTOP® Bellmouth



- Bellmouth compression cable glands in Silver
 - Grey polyamide (RAL 7001)
 - PG thread size
 - Cable entry conforms to VDE 0730
 - Protection to IP68
- Operating temperature -20°C to +80°C

Mounting Thread Size	Cable Dia.	Mounting Thread Length	A/F Size Body	Mftrs. List No.	Order Code
PG9	3.5-8	8	19	53015410	117-8876
PG11	4-10	8	22	53015420	117-8877
PG13.5	5-12	9	24	53015430	117-8879
PG16	9-14	10	27	53015440	117-8881
PG21	13-18	11	33	53015450	117-8882

231145

Price Each

Thread Size	Order Code	1+	10+	50+	100+
PG9	117-8876				
PG11	117-8877				
PG13.5	117-8879				
PG16	117-8881				
PG21	117-8882				

SKINTOP® Nylon Locknuts



- PG or Metric thread sizes
- Moulded in glass fibre reinforced Silver Grey polyamide (RAL 7001)

Mounting Thread Size	A/F Size Body	Mftrs. List No.	Order Code	Mounting Thread Size	A/F Size Body	Mftrs. List No.	Order Code
PG7	19	53019000	117-8900	M12 x 1.5	17	53119000	117-8909
PG9	22	53019010	117-8901	M16 x 1.5	22	53119010	117-8911
PG11	24	53019020	117-8902	M20 x 1.5	26	53119020	117-8912
PG13.5	27	53019030	117-8903	M25 x 1.5	32	53119030	117-8913
PG16	30	53019040	117-8904	M32 x 1.5	41	53119040	117-8914
PG21	36	53019050	117-8905	M40 x 1.5	50	53119050	117-8915
PG29	46	53019060	117-8906	M50 x 1.5	60	53119060	117-8916
PG36	60	53019070	117-8907	M63 x 1.5	75	53119070	117-8917

231147

Thread Size	Order Code	1+	10+	50+	100+
PG7	117-8900				
PG9	117-8901				
PG11	117-8902				
PG13.5	117-8903				
PG16	117-8904				
PG21	117-8905				
PG29	117-8906				
PG36	117-8907				
M12 x 1.5	117-8909				
M16 x 1.5	117-8911				
M20 x 1.5	117-8912				
M25 x 1.5	117-8913				
M32 x 1.5	117-8914				
M40 x 1.5	117-8915				
M50 x 1.5	117-8916				
M63 x 1.5	117-8917				

SKINDICHT® Blanking Plug PG



- Used to close unwanted cable entry holes
- Moulded in Grey polyamide (RAL 7001) or nickel plated brass
- PG thread size

Mounting Thread Size	Mounting Thread Length (mm)	Polystyrene Mftrs.		Nickel plated Brass Mftrs.	
		List No.	Order Code	List No.	Order Code
PG7	6	52005949	117-9015	52002680	117-9025
PG9	6	52005950	117-9016	52003390	117-9026
PG11	6	52005960	117-9017	52003400	117-9027

PG13.5	6	52005970	117-9018	52003410	117-9028
PG16	6	52005980	117-9021	52003420	117-9029
PG21	8	52005990	117-9022	52003430	117-9030
PG29	8	52006000	117-9023	-	-
PG36	10	52006010	117-9024	-	-

624057

Thread Size	Polystyrene Order Code	Price Each			
		1+	10+	50+	100+
PG7	117-9015				
PG9	117-9016				
PG11	117-9017				
PG13.5	117-9018				
PG16	117-9021				
PG21	117-9022				
PG29	117-9023				
PG36	117-9024				
Nickel Plated Brass					
PG7	117-9025				
PG9	117-9026				
PG11	117-9027				
PG13.5	117-9028				
PG16	117-9029				
PG21	117-9030				

Blanking Plugs



Skintop® Click



- Unique click system for fast mounting
- Protection class IP68
- Operating temperature: -40°C to 100°C
- Polyamide construction

Blind plug with innovative CLICK system for fast installation in hardly accessible places. Perfect solution wherever threads previously cut must be closed. Developed especially for: Manufacturing of control cabinets, measurement, control and electrical applications, automation technology, plant, apparatus construction, control system construction.

Mounting Thread (mm)	Length (mm)	Wall Thickness (mm)
M16	28.5	1 - 2
M20	29.5	1 - 2
M25	30.5	1 - 2

491246

Mftrs. List No.	Size	Pack qty	Order Code	Price Per Pack	
				1+	5+
Grey					
52109013	M16	50	150-4038		
52109014	M20	25	150-4039		
52109015	M25	25	150-4040		

Each Pack includes 1 removal tool

Mftrs. List No.	Size	Order Code	Price Each
			1+
Grey			
52109013	M16	150-4201	
52109014	M20	150-4202	
52109015	M25	150-4203	
Removal Tool			
53112697	M16	150-4205	
53112698	M20	150-4206	
53112699	M25	150-4207	

Skindicht® Blanking Plug Metric



- Used to close unwanted cable entry holes
- Moulded in Grey polyamide (RAL 7001) or nickel plated brass
- Metric thread size

Mounting Thread Size	Polystyrene Mftrs. List No.	Order Code	Nickel plated Brass Mftrs.	
			List No.	Order Code
M12 x 1.5	52006600	117-9037	52103100	117-9031
M16 x 1.5	52006610	117-9038	52103110	117-9033
M20 x 1.5	52006620	117-9039	52103120	117-9034
M25 x 1.5	52006630	117-9040	52103130	117-9035
M32	52103140	117-9036	52103140	117-9036
M40 x 1.5	52006650	117-9041		

Cable Glands - continued

Skindicht® Blanking Plug - continued

Metric - continued

239133

Thread Size	Polystyrene	Order Code	Price Each			
			1+	10+	50+	100+
M12 x 1.5	117-9037	●				
M16 x 1.5	117-9038	●				
M20 x 1.5	117-9039	●				
M25 x 1.5	117-9040	●				
M40 x 1.5	117-9041	●				
Nickel Plated Brass						
M12	117-9031	●				
M16	117-9033	●				
M20	117-9034	●				
M25	117-9035	●				
M32	117-9036	●				

Blanking Plugs

Skindicht® BL-M ATEX



Application:

- Equipment group II / Category 2G+1D
- Devices, machines and apparatus
- Mobile offshore and marine applications
- Chemical and petrochemical industry
- Plating: Nickel
- Temperature range: -30°C to 90°C

- Protection class IP68
- Body Material: Brass
- O-Ring Material: NBR

NEW

618257

Mftrs. List No.	Thread Size	Pack Qty	Order Code	Price Per Pack		
				1+	5+	10+
52103103	Metric	10	185-2380	●		
52103113	Metric	10	185-2381	●		
52103123	Metric	10	185-2382	●		
52103133	Metric	10	185-2384	●		
52103143	Metric	5	185-2385	●		
52103153	Metric	5	185-2386	●		
52103163	Metric	5	185-2387	●		

Mftrs. List No.	Thread Size	Order Code	Price Each		
			1+	5+	10+
52103103	Metric	120-4380	●		
52103113	Metric	120-4382	●		
52103123	Metric	120-4383	●		
52103133	Metric	185-2477	●		
52103143	Metric	185-2478	●		
52103153	Metric	120-4386	●		
52103163	Metric	185-2479	●		

Reducers

Skindicht®



Enables the use of cable glands with smaller connection threads than the existing threaded holes.

- Application: Machines, Devices and Housings
- Material: Brass
- Plating: Nickel
- Temperature range: -60°C to 200°C

NEW

618256

Mftrs. List No.	Thread		Pack Qty	Order Code	Price Per Pack		
	Male	Female			1+	5+	10+
52104310	M16 x 1.5	M12 x 1.5	10	185-2374	●		
52104312	M20 x 1.5	M16 x 1.5	10	185-2375	●		
52104314	M25 x 1.5	M20 x 1.5	10	185-2376	●		
52104316	M32 x 1.5	M25 x 1.5	10	185-2377	●		
52104318	M40 x 1.5	M32 x 1.5	5	185-2378	●		
52104320	M50 x 1.5	M40 x 1.5	5	185-2379	●		

Mftrs. List No.	Thread		Order Code	Price Each		
	Male	Female		1+	5+	10+
52104310	M16 x 1.5	M12 x 1.5	185-2475	●		
52104312	M20 x 1.5	M16 x 1.5	120-4223	●		
52104314	M25 x 1.5	M20 x 1.5	120-4224	●		
52104315	M32 x 1.5	M20 x 1.5	120-4225	●		
52104316	M32 x 1.5	M25 x 1.5	120-4226	●		
52104318	M40 x 1.5	M32 x 1.5	120-4227	●		
52104320	M50 x 1.5	M40 x 1.5	185-2476	●		

Enlargers

Skindicht®



Enables the use of cable glands with larger connection threads than the existing threaded holes.

NEW

- Application: Machines, Devices and Housings
- Material: Brass
- Plating: Nickel
- Temperature range: -60°C to 200°C

Mftrs. List No.	Thread		Pack Qty	Order Code	Price Per Pack		
	Male	Female			1+	5+	10+
52104450	M12 x 1.5	M16 x 1.5	10	185-2367	●		
52104452	M16 x 1.5	M20 x 1.5	10	185-2368	●		
52104454	M20 x 1.5	M25 x 1.5	10	185-2369	●		
52104456	M25 x 1.5	M32 x 1.5	10	185-2370	●		
52104458	M32 x 1.5	M40 x 1.5	5	185-2372	●		
52104460	M40 x 1.5	M50 x 1.5	5	185-2373	●		

618254

Mftrs. List No.	Thread		Order Code	Price Each		
	Male	Female		1+	5+	10+
52104450	M12 x 1.5	M16 x 1.5	185-2470	●		
52104452	M16 x 1.5	M20 x 1.5	120-4228	●		
52104454	M20 x 1.5	M25 x 1.5	120-4229	●		
52104456	M25 x 1.5	M32 x 1.5	185-2471	●		
52104458	M32 x 1.5	M40 x 1.5	185-2472	●		
52104460	M40 x 1.5	M50 x 1.5	185-2473	●		

Skindicht MA-M, MA-PG and ZS-M

LAPP CABLE



Skindicht MA-M/PG

- Brass adapters metric to PG
- To convert a metric outer thread to a PG inner thread

Skindicht MA-PG/M

- To convert a PG outer thread to a metric inner thread

Skindicht ZS-M

- To convert a metric outer thread to a PG inner thread
- With hexagonal flange

Mftrs. List No.	Outer Thread	Inner Thread	A/F Size	Order Code
MA-M/PG				
52104210	M20 x 1.5	PG9	—	117-8980
52104220	M25 x 1.5	PG11	—	117-8981
52104270	M40 x 1.5	PG21	—	117-8983
MA-PG/M				
52104493	PG11	M20 x 1.5	—	117-8984
52104494	PG13.5	M20 x 1.5	—	117-8985
52104495	PG16	M20 x 1.5	—	117-8986
52104497	PG21	M20 x 1.5	—	117-8987
52104498	PG21	M25 x 1.5	—	117-8988
52104499	PG21	M32 x 1.5	—	117-8989
52104500	PG29	M25 x 1.5	—	117-8991
52104502	PG29	M40 x 1.5	—	117-8992
ZS-M				
52104360	M20 x 1.5	PG11	22	124-2474
52104370	M20 x 1.5	PG13.5	22	124-2475
52104380	M20 x 1.5	PG16	24	124-2476

227253

Mftrs. List No.	Order Code	Price Each			
		1+	10+	50+	100+
MA-M/PG					
52104210	117-8980	●			
52104220	117-8981	●			
52104270	117-8983	●			
MA-PG/M					
52104493	117-8984	●			
52104494	117-8985	●			
52104495	117-8986	●			
52104497	117-8987	●			
52104498	117-8988	●			
52104499	117-8989	●			
52104500	117-8991	●			
52104502	117-8992	●			
ZS-M					
52104360	124-2474	●			
52104370	124-2475	●			
52104380	124-2476	●			

Skintop STR



- Skintop STR with reducing seal insert
- Body: Polyamide
- Sealing: Neoprene
- Colour: Silver Grey (RAL7001)
- Protection class IP68 (5 bar)
- Temperature range: -20°C to +80°C
- VDE, CSA approval
- Lock nuts not supplied

Mftrs. List No.	Thread	Cable Dia. (mm)	A/F Size	Order Code
53015110	PG9	2-6	19	117-8942
53015120	PG11	2-7	22	117-8943
53015130	PG13.5	4-9	24	117-8944
53015140	PG16	6-12	27	117-8946
53015150	PG21	9-16	33	117-8947
53015160	PG29	11-20	42	117-8948
53015170	PG36	17-26	53	117-8949
53015180	PG42	22-31	60	117-8950
53111100	M12	1-5	15	117-8951
53111110	M16	2-7	19	117-8952
53111120	M20	5-10	25	117-8953
53111130	M25	6-13	30	117-8954
53111140	M32	7-15	36	117-8955
53111150	M40	15-23	46	117-8956
53111160	M50	22-29	55	117-8958
53111170	M63	28-39	66	117-8959

227254

Mftrs. List No.	Order Code	1+	10+	50+	100+
53015110	117-8942				
53015120	117-8943				
53015130	117-8944				
53015140	117-8946				
53015150	117-8947				
53015160	117-8948				
53015170	117-8949				
53015180	117-8950				
53111100	117-8951				
53111110	117-8952				
53111120	117-8953				
53111130	117-8954				
53111140	117-8955				
53111150	117-8956				
53111160	117-8958				
53111170	117-8959				

Demanding Applications Gland with Viton Sealing Cone



The SKINDICHT® SHV-M-VITON® cable gland is a water proof special gland. The special conical sealing element of VITON® extends through the entire gland and thus guarantees excellent resistance to pressure and strain relief. The VITON® sealing cone is of outstanding resistance to oils and biological oils, solvents and chemicals at high temperatures.

The gland make-up consists of:

- | | |
|---------------|---------------------|
| Gland body | Nickel-plated brass |
| Cap | Nickel-plated brass |
| Sealing cone | Elastomere (FKM) |
| Pressure cone | Nickel-plated brass |
| Washer | Galvanized steel |
| O-ring | Elastomere (FKM) |

Technical features:

- | | |
|-------------------|--|
| Connecting thread | M12x1.5 - M32x1.5 to DIN60423 |
| IP protection | IP68 at 10 bar water pressure, EN60529 |
| Temperature range | -20°C to +200°C |

515321

10 Per Pack	Price Per Pack					
Size	Cable Diameter	Length	Order Code	1+	5+	10+
M16 x 1.5	4.8 - 5.8mm	27.5mm	161-7791			
M16 x 1.5	5.8 - 6.8mm	27.5mm	161-7792			
M20 x 1.5	5.8 - 6.8mm	31.0mm	161-7793			
M20 x 1.5	6.8 - 8.8mm	31.0mm	161-7794			
M20 x 1.5	8.5 - 10.8mm	32.5mm	161-7796			
M20 x 1.5	6.8 - 8.8mm	32.5mm	161-7797			
M20 x 1.5	10.8 - 12.8mm	34.5mm	161-7798			
M20 x 1.5	13.8 - 14.8mm	34.5mm	161-7799			
M25 x 1.5	15.8 - 17.8mm	38.0mm	161-7800			

Size	Cable Diameter	Length	Order Code	Price Each
M16 x 1.5	4.8 - 5.8mm	27.5mm	169-1683	1+
M16 x 1.5	5.8 - 6.8mm	27.5mm	169-1684	
M20 x 1.5	5.8 - 6.8mm	31.0mm	169-1686	
M20 x 1.5	6.8 - 8.8mm	31.0mm	169-1687	
M20 x 1.5	8.5 - 10.8mm	32.5mm	169-1688	
M20 x 1.5	6.8 - 8.8mm	32.5mm	169-1689	
M20 x 1.5	10.8 - 12.8mm	34.5mm	169-1690	
M20 x 1.5	13.8 - 14.8mm	34.5mm	169-1691	
M25 x 1.5	15.8 - 17.8mm	38.0mm	169-1692	

Earthing Gland with Strain Relief



SKINDICHT® SRE are cable glands for screened cables. The earthing sleeve pushed under the braiding ensures a reliable IP protection and EMC compliance. The neoprene sleeve guarantees sealing and kink protection, the cleat provides reliable strain relief.

The cable gland make-up consists of:

- | | |
|--------------------------|---------------------|
| Gland body | Nickel-plated brass |
| Cleat with thread screws | Nickel-plated brass |
| Anti kink sleeve | Elastomere |
| Earthing bush | Bright brass |

O-ring

- | | |
|---------------------|-------------------|
| Technical features: | |
| Connecting thread | M20 - M40 EN50262 |
| IP protection | IP65, to EN60529 |
| Temperature range | -20°C to +80°C |

Elastomere

- | | |
|-------------------|--|
| M20 - M40 EN50262 | |
| IP65, to EN60529 | |
| -20°C to +80°C | |

515320

10 Per Pack	Price Per Pack					
Size	Cable Diameter	Length	Order Code	1+	5+	10+
M20 x 1.5	7.5 - 9mm	59.5mm	161-7784			
M20 x 1.5	9 - 11mm	59.5mm	161-7785			
M20 x 1.5	11 - 13mm	64.5mm	161-7786			
M20 x 1.5	13.5 - 15mm	64.5mm	161-7787			
M25 x 1.5	15 - 17mm	78.0mm	161-7788			
M25 x 1.5	17 - 19mm	78.0mm	161-7789			

Price Each						
Size	Cable Diameter	Length	Order Code	1+	5+	10+
M20 x 1.5	7.5 - 9mm	59.5mm	169-1676			
M20 x 1.5	9 - 11mm	59.5mm	169-1677			
M20 x 1.5	11 - 13mm	64.5mm	169-1678			
M20 x 1.5	13.5 - 15mm	64.5mm	169-1679			
M25 x 1.5	15 - 17mm	78.0mm	169-1680			
M25 x 1.5	17 - 19mm	78.0mm	169-1681			

90° Angled Cable Gland



The SKINDICHT® RWV are cast zinc cable glands with a 90° elbow. The locknut enables the angle gland to be secured in any position.

The gland make-up consists of:

- | | |
|-----------------------|---------------------|
| Angle housing | Cast zinc |
| Washer | Galvanized steel |
| Pressure screw | Nickel-plated brass |
| Locknut | Nickel-plated brass |
| Indented sealing ring | Elastomere |

O-ring

- | | |
|---------------------|-------------------|
| Technical features: | |
| Connecting thread | M12 - M40 EN60423 |
| IP protection | IP55 to EN60529 |
| Temperature range | -20°C to +100°C |

Elastomer

- | | |
|-------------------|--|
| M12 - M40 EN60423 | |
| IP55 to EN60529 | |
| -20°C to +100°C | |

515323

10 Per Pack	Price Per Pack				
Size	Cable Diameter	Order Code	1+	5+	10+
M12 x 1.5	5mm	161-7815			
M16 x 1.5	3 - 9mm	161-7816			
M20 x 1.5	4 - 13mm	161-7817			
M25 x 1.5	8.5 - 17.5mm	161-7818			
M32 x 1.5	16 - 25mm	161-7819			

Price Each			
Size	Cable Diameter	Order Code	1+
M12 x 1.5	5mm	169-1707	
M16 x 1.5	3 - 9mm	169-1708	
M20 x 1.5	4 - 13mm	169-1709	
M25 x 1.5	8.5 - 17.5mm	169-1710	
M32 x 1.5	16 - 25mm	169-1711	

TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at [farnell.com](https://www.farnell.com)

Cable Glands - continued

Skintop MS-M ATEX Brass Gland to ATEX 100a



Specifically for use with electrical equipment in explosion-hazard areas to enhanced safety "e", in particular in the chemical and petrochemical industries. The cable and line entry for the SKINTOP® MS-M ATEX is tested by IBExU to: DIN EN 50014:2000
DIN EN 50019:1996
and is licensed for a continuous temperature from -30°C to +90°C with a dynamic load.

The design and configuration correspond to the proven SKINTOP® MS and are distinguished by particular robustness, a large variable clamping range and high functional reliability owing to a permanently locked plastic clamping body (rotation protection).

Mfrs. List No.	Thread	Clamping range (mm)	Wrench size (mm)	C (mm)	D (mm)	Order Code
53112700	M12 x 1.5	3.0 – 7.0	16	26.5	6.5	120-4374
53112710	M16 x 1.5	4.5 – 10.0	20	33.0	7.0	120-4375
53112720	M20 x 1.5	7.0 – 13.0	24	37.0	8.0	120-4376
53112730	M25 x 1.5	9.0 – 17.0	29	38.5	8.0	120-4377
53112740	M32 x 1.5	11.0 – 21.0	36	45.5	9.0	152-4089
53112750	M40 x 1.5	19.0 – 28.0	45	48.0	9.0	120-4378
53112760	M50 x 1.5	26.0 – 35.0	54	55.5	10.0	120-4379

334896

Mfrs.		Price Each				
Thread	List No.	Order Code	1+	10+	50+	100+
M12 x 1.5	53112700	120-4374				
M16 x 1.5	53112710	120-4375				
M20 x 1.5	53112720	120-4376				
M25 x 1.5	53112730	120-4377				
M32 x 1.5	53112740	152-4089				
M40 x 1.5	53112750	120-4378				
M50 x 1.5	53112760	120-4379				

Skindicht® SM Locknuts



- Nickel plated brass locknut to suit all brass glands

Mfrs. List No.	Thread (mm)	A/F Size (mm)	Thickness (mm)	Order Code	Mfrs. List No.	Thread (mm)	A/F Size (mm)	Thickness (mm)	Order Code
52003490	PG7	15	2.8	117-8918	52103000	M12 x 1.5	15	3	117-8934
52003500	PG9	18	2.8	117-8919	52103010	M16 x 1.5	19	3	117-8935
52003510	PG11	21	3	117-8920	52103020	M20 x 1.5	24	3.5	117-8936
52003520	PG13.5	23	3	117-8922	52103030	M25 x 1.5	30	4	117-8937
52003530	PG16	26	3	117-8923	52103040	M32 x 1.5	36	4	117-8938
52003540	PG21	32	3.5	117-8924	52103050	M40 x 1.5	46	5	117-8939
52003550	PG29	41	4	117-8925	52103060	M50 x 1.5	60	5	117-8940
52003560	PG36	51	5	117-8926	52103070	M63 x 1.5	70	5	117-8941
52003570	PG42	60	5	130-7379					

227256

Mfrs.		Price Each			
Thread	Order Code	1+	10+	50+	100+
PG7	117-8918				
PG9	117-8919				
PG11	117-8920				
PG13.5	117-8922				
PG16	117-8923				
PG21	117-8924				
PG29	117-8925				
PG36	117-8926				
PG42	130-7379				
M12 x 1.5	117-8934				
M16 x 1.5	117-8935				
M20 x 1.5	117-8936				
M25 x 1.5	117-8937				
M32 x 1.5	117-8938				
M40 x 1.5	117-8939				
M50 x 1.5	117-8940				
M63 x 1.5	117-8941				

Skindicht® SM-PE Locknuts



- Nickel plated brass locknut to suit all brass glands
- Suitable for the EMC gland MS-SC
- With teeth cutting through coatings and lacquer layers to ensure an electrical contact to the metal

Mfrs. List No.	Thread	A/F Size (mm)	Thickness (mm)	Order Code
52103200	PG7	15	4.7	117-8927
52103210	PG9	18	4.7	117-8928
52103220	PG11	21	4.7	117-8929
52103230	PG13.5	23	4.7	117-8930
52103240	PG16	26	4.7	117-8931
52103250	PG21	32	5.2	117-8932
52003570	PG42	60	5	130-7379

227257

Mfrs.		Price Each			
Thread	Order Code	1+	10+	50+	100+
PG7	117-8927				
PG9	117-8928				
PG11	117-8929				
PG13.5	117-8930				
PG16	117-8931				
PG21	117-8932				
PG42	130-7379				

SKINDICHT® BL-M



Blanking Plugs, Metric Thread



Brass blind plugs with a metric thread for ensuring IP68 protection for unused borings.

334899

Mfrs.		Price Each				
Thread M	Outer Ø (mm)	Order Code	1+	10+	50+	100+
M12 x 1.5	17.8	120-4380				
M16 x 1.5	22.0	120-4382				
M20 x 1.5	26.4	120-4383				
M40 x 1.5	49.5	120-4386				

SKINDICHT® MINI



Mini Cable Glands



- For applications which require low installation height and safe mounting of cables with small diameters, e.g. proximity switches and sensors
- Large clamping range
- Metric thread
- Body material: nickel plated brass
- Sealing ring: Elastomere
- Operating temperature: -30°C to +80°C
- Protection: IP68

Mfrs. List No.	Thread	Clamping Range (mm)	SW (mm)	C (mm)	D (mm)	Order Code
52001860	M6	2-3	9	19.5	5	120-4193
52001880	M8	3.5-5.5	11	20.5	5	120-4194

238945

Mfrs.		Price Each			
Thread	Order Code	1+	10+	50+	100+
M6	120-4193				
M8	120-4194				
52001880	M8 50	128-6007			

Skintop® MS-SC



- EMC safe cable glands
- Suitable for all screened cables
- Contact blades give a quick self-centering shielding

- Body: Brass Nickel plated
- O-Ring: Perbunan
- Protection class IP68

Mfrs. List No.	Thread	Insulation-Ø (mm)	Shielding-Ø (mm)	Order Code
53112610	M12	3.5-7	2	120-4369
53112620	M16	4.5-9	4	120-4199
53112630	M20	7-12.5	5	120-4200
53112640	M25	9-16.5	7.5	120-4201
53112650	M32	11-21	9	120-4202
53112210	PG9	4-7.5	4	117-8893
53112220	PG11	4-10	4	117-8894
53112230	PG13.5	5-12	4	117-8895
53112240	PG16	8-14	6	117-8896
53112250	PG21	11-17.5	8	117-8897
53112260	PG29	16-25	13	117-8898

227258

Thread	Order Code	Price Each			
		1+	10+	50+	100+
M12	120-4369				
M16	120-4199				
M20	120-4200				
M25	120-4201				
M32	120-4202				
PG9	117-8893				
PG11	117-8894				
PG13.5	117-8895				
PG16	117-8896				
PG21	117-8897				
PG29	117-8898				

Skintop® MS and MS-M



- Brass glands
- Nickel plated
- Sealing ring Neoprene
- O - Ring Pebunan
- Protection class **IP68** (5 bar)
- Temperature range: -30°C to +100°C



Mftrs. List No.	Thread	Cable Dia. (mm)	A/F Size	Order Code
52015720	PG11	4-10	20	117-8883
52015730	PG13.5	5-12	22	117-8884
53112010	M16 x 1.5	4.5-10	20	117-8885
53112020	PG20	7-13	24	117-8886
53112030	M25 x 1.5	11-17	29	117-8887
53112040	M32 x 1.5	11-21	36	117-8888
53112050	M40 x 1.5	19-28	45	117-8889
53112060	M50 x 1.5	27-35	54	117-8890
53112070	M63 x 1.5	34-45	67	117-8892

434587

Mftrs. List No.	Order Code	1+	10+	50+	100+
52015720	117-8883				
52015730	117-8884				
53112010	117-8885				
53112020	117-8886				
53112030	117-8887				
53112040	117-8888				
53112050	117-8889				
53112060	117-8890				
53112070	117-8892				

Nickel Plated Brass Glands



- Supplied complete with locknuts
- Brass glands
- Nickel plated
- Polyamide sealing ring
- O/Ring: NBR
- Protection class **IP68**
- Temperature range: -30°C to +100°C



Mftrs. List No.	Thread Size	Cable Diameter (mm)		Order Code
		Min.	Max.	
52015700 + 52003490	PG7	2	6.5	182-1187
52015710 + 52003500	PG9	4	8	182-1188
52015720 + 52003510	PG11	4	10	182-1189
52015730 + 52003520	PG13.5	5	12	182-1190
52015740 + 52003530	PG16	8	14	182-1191
53112000 + 52103000	M12 x 1.5	3	7	182-1193
53112010 + 52103010	M16 x 1.5	4.5	10	182-1194
53112020 + 52103020	M20 x 1.5	7	13	182-1195
53112030 + 52103030	M25 x 1.5	9	17	182-1196

609354

Mftrs. List No.	Order Code	1+	5+	10+
52015700 + 52003490	182-1187			
52015710 + 52003500	182-1188			
52015720 + 52003510	182-1189			
52015730 + 52003520	182-1190			
52015740 + 52003530	182-1191			
53112000 + 52103000	182-1193			
53112010 + 52103010	182-1194			
53112020 + 52103020	182-1195			
53112030 + 52103030	182-1196			

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IP68 - Nickel Plated Brass - 'Perfect'



Dome Top



A range of high strength compression glands manufactured in nickel plated brass with either PG or Metric thread. Fully insulated Neoprene cable seal and Perbunan O-ring seal on external fixing thread provide protection to **IP68**.

- Supplied complete with locknut
- Wide clamping range available

Operating temperature -20°C to +100°C

Mounting Thread Size	Cable Diameter (mm)	Mounting		Locknut	Order Code
		Thread Length (mm)	Body		
PG7	3-6.5	5	14	15	116-8795
PG9	4-8	6	17	18	116-8796
PG11	5-10	6	20	21	116-8797
PG13.5	6-12	6.5	22	23	116-8798
PG16	10-14	6.5	24	26	116-8799
M12 x 1.5	3-6	10	14	15	116-8801
M16 x 1.5	5-9	10	17	19	116-8802
M20 x 1.5	8-13	10	22	24	116-8803
M25 x 1.5	11-17	11	27	30	116-8804

208014

Thread Size	Order Code	1+	10+	50+	100+	500+
PG7	116-8795					
PG9	116-8796					
PG11	116-8797					
PG13.5	116-8798					
PG16	116-8799					
M12 x 1.5	116-8801					
M16 x 1.5	116-8802					
M20 x 1.5	116-8803					
M25 x 1.5	116-8804					

HSK-M-Ex Cable Glands



- Nickel plated brass glands
- Buna-N / FPM seal
- Buna-N / FPM O-ring
- Protection class IP69K
- Temperature range: -20°C to 95°C



Mftrs. List No.	Thread	Cable Dia. (mm)	AF Size (mm)
1610120050	M12 x 1.5	3 - 6.5	14
1610160051	M16 x 1.5	2 - 6	17 / 19
1610161150	M16 x 1.5	6 - 10	20
1610200050	M20 x 1.5	6 - 12	22
1610201650	M20 x 1.5	10 - 14	24
1610250050	M25 x 1.5	14 - 18	30
1610250051	M25 x 1.5	10 - 16	30
1610320050	M32 x 1.5	20 - 25	40
1610320051	M32 x 1.5	13 - 20	40
1610400050	M40 x 1.5	22 - 32	50
1610400051	M40 x 1.5	20 - 26	50

526899

Mftrs. List No.	Thread	Qty	Order Code	1+	5+	10+
Gland						
1610120050	M12	50	167-8040			
1610160051	M16	50	167-8041			
1610161150	M16	50	167-8042			
1610200050	M20	50	167-8043			
1610201650	M20	50	167-8044			
1610250050	M25	25	167-8045			
1610250051	M25	25	167-8046			
1610320050	M32	25	167-8047			
1610320051	M32	25	167-8049			
1610400050	M40	10	167-8051			
1610400051	M40	10	167-8052			
Locknut						
1161120050	M12	100	167-8053			
1161160050	M16	100	167-8054			
1161200050	M20	100	167-8055			
1161250050	M25	100	167-8056			
1161320050	M32	50	167-8057			
1161400050	M40	50	167-8058			

HSK-M-EMV-D Cable Glands



- Nickel plated brass glands
- Buna-N seal
- Buna-N O-ring
- Protection class IP69K
- Temperature range: -40°C to 100°C



Cable Glands - continued

HSK-M-EMV-D Cable Glands - continued

Mfrs. List No.	Thread	Cable Dia. (mm)	AF Size (mm)
1631120050	M12 x 1.5	3 - 6.5	14
1631160050	M16 x 1.5	5 - 10	20
1631201350	M20 x 1.5	6 - 12	22
1631200050	M20 x 1.5	10 - 14	24
1631250050	M25 x 1.5	13 - 18	30
1631320050	M32 x 1.5	18 - 25	40
1631400050	M40 x 1.5	24 - 32	50

526902

Price Each

Mfrs. List No.	Thread	Qty	Order Code	1+	5+	10+
Gland						
1631120050	M12	50	167-8059			
1631160050	M16	50	167-8060			
1631201350	M20	50	167-8062			
1631200050	M20	50	167-8063			
1631250050	M25	25	167-8064			
1631320050	M32	25	167-8065			
1631400050	M40	10	167-8066			
Locknut						
1167120050	M12	50	167-8067			
1167160050	M16	50	167-8068			
1167200050	M20	50	167-8069			
1167250050	M25	50	167-8070			
1167320050	M32	25	167-8071			
1167400050	M40	25	167-8072			

Kwik Fix Glands



This range of cable glands are available in three size M16, M20 and M25. They are manufactured from polyamide PA6 and are easily assembled from one side without any need for a special tool. Thereby making installation very quick and easy. The Kwik Fix is especially suitable for use in switch cabinets, enclosures, cooling and heating systems and in areas with limited spaces.

The gland make-up consists of:

Gland body	Polyamide PA6
Dome nut	Polyamide PA6
Sealing ring	Polychloroprene-Nitrile rubber
Mounting nut	Polyamide PA6

Technical features:

IP protection	IP68
Temperature range	-20°C to +100°C

Size	Hole Diameter (mm)		Wall Thickness (mm)		Cable Diameter (mm)		Length (mm)
	Min.	Max.	Min.	Max.	Min.	Max.	
M16	16.1	16.4	1	4	5	10	38.5
M20	20.1	20.4	1	4	8	13	42.5
M25	25.1	25.4	1	4	11	17	48

642015

Mfrs. List No.	Size	Order Code	1+	50+	100+
Light Grey					
K341-1016-00	M16	205-6130			
K341-1020-00	M20	205-6131			
K341-1025-00	M25	205-6132			
Grey					
K341-1016-01	M16	205-6133			
K341-1020-01	M20	205-6134			
K341-1025-01	M25	205-6135			
Black					
K341-1016-02	M16	205-6137			
K341-1020-02	M20	205-6138			
K341-1025-02	M25	205-6139			

Nylon Cable Glands and Locknuts



- Wide sealing and clamping range
- Incorporated 'Top-Hat' reducing sealing ring to cater for small cable diameters
- Integrated anchorage
- Easy-to-install



The gland make-up consists of:

Gland body	Polyamide PA6
Dome nut	Polyamide PA6
Sealing ring (outer)	Polychloroprene-Nitrile rubber
Sealing ring (inner)	Evoprene TPE
Locknut	Polyamide PA6

Technical features:

IP protection	IP68
Temperature range	-20°C to +100°C

Gland Size	Cable Diameter (mm)		Length (mm)	Locknut Size	Thickness (mm)	Diameter (mm)
	Min.	Max.				
M16	3	10	35.5	M16	7	22.5
M20	5	13	36	M20	7	26.5
M25	8	17	43	M25	8	32.5

642038

Mfrs. List No.	Size	Order Code	1+	10+	25+
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Gland - Light Grey					
50.616 PA/R/035	M16	205-6110			
50.620 PA/R/035	M20	205-6111			
50.625 PA/R/035	M25	205-6113			
Gland - Grey					
50.616 PA/R	M16	205-6114			
50.620 PA/R	M20	205-6115			
50.625 PA/R	M25	205-6116			
Gland - Black					
50.616 PA/RSW	M16	205-6117			
50.620 PA/RSW	M20	205-6118			
50.625 PA/RSW	M25	205-6119			
Gland - Light Grey					
LN167035	M16	205-6120			
LN207035	M20	205-6121			
LN257035	M25	205-6122			
Gland - Grey					
LN167001	M16	205-6123			
LN207001	M20	205-6125			
LN257001	M25	205-6126			
Gland - Black					
LN16B	M16	205-6127			
LN20B	M20	205-6128			
LN25B	M25	205-6129			

IP68-EMC Nickel Plated Brass - 'Perfect'



Dome Top



- High EMC performance
- Patented shielding contact design
- EMC locknuts with cutting points maintain shielding continuity
- Simple, fast preparation and installation
- PG or Metric threads
- IP68 rating

Operating Temperature -20°C to +100°C

Mounting Thread Size	Cable Diameter (mm)	Mounting Thread Length (mm)	A/F Size		Order Code
			Body	Locknut	
PG7	3-6.5	5	14	15	116-8751
PG9	4-8	6	17	18	116-8752
PG11	5-10	6	20	21	116-8753
PG13.5	6-12	6.5	22	23	116-8754
PG16	10-14	6.5	24	26	116-8755
PG21	13-18	7	30	32	116-8756
M12 x 1.5	3-6	10	14	15	116-8758
M16 x 1.5	5-9	10	17	19	116-8759
M20 x 1.5	8-13	10	22	24	116-8760
M25 x 1.5	11-17	11	27	30	116-8761
M32 x 1.5	15-21	13	34	36	116-8762

208285

Thread Size	Order Code	Price Each				
		1+	10+	50+	100+	500+
PG7	116-8751					
PG9	116-8752					
PG11	116-8753					
PG13.5	116-8754					
PG16	116-8755					
PG21	116-8756					
M12 x 1.5	116-8758					
M16 x 1.5	116-8759					
M20 x 1.5	116-8760					
M25 x 1.5	116-8761					
M32 x 1.5	116-8762					

IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items farnell.com



IP66 - CXT Brass



Light duty industrial brass compression glands intended for use with flexible braided power control cables, e.g. 'CY' or 'SY' types. Supplied in two gland kit form comprising two glands, braid clamp washers, galvanised steel locknuts and cable entry seals providing protection to **IP66**.

Operating Temperature -10°C to +90°C

Gland Size Ref	Mounting Thread Size	Mounting Thread Length (mm)	Cable Diameter (mm)		Mftrs List No.	Order Code
			Min.	Max.		
20S	M20	15	6.2	11.7	CXT-20S	297-823
20	M20	15	6.9	14	CXT-20	297-835
25	M25	15	10.6	20	CXT-25	297-847

2 Gland Kit

Gland Size Ref.	Mftrs. List No.	Order Code	Price Per Kit			
			1+	5+	10+	25+
20S	CXT-20S	297-823				
20	CXT-20	297-835				
25	CXT-25	297-847				

CMP

IP66 - A2 Brass



Industrial brass compression glands manufactured to **BS6121 Part 1** requirements, for use with all types of unarmoured cables requiring a waterproof outer seal. Supplied in two gland kit form comprising two glands, galvanised steel locknuts, PVC shrouds and cable entry seals providing protection to **IP66**.

Operating Temperature -10°C to +90°C

Gland Size Ref	Mounting Thread Size	Mounting Thread Length (mm)	Cable Diameter (mm)		Mftrs List No.	Order Code
			Min.	Max.		
20S	M20	10	6.2	11.7	A2-20S	297-793
20	M20	10	6.9	14	A2-20	297-800
25	M25	10	10.6	20	A2-25	297-811

2 Gland Kit

Gland Size Ref.	Mftrs. List No.	Order Code	Price Per Kit			
			1+	5+	10+	25+
20S	A2-20S	297-793				
20	A2-20	297-800				
25	A2-25	297-811				

Through Shield EMC Cable Glands



- Cable shielded through panel up to point of termination
- Stainless steel contact spring for shield connection
- Quick and easy installation
- Temperature range -20°C to +100°C
- IP68
- Standard or cutting locknuts available separately

This range of through shield EMC glands are intended for use in electrically noisy environments where shielded cable must be used due to high levels of EMI. Unlike EMC glands that terminate the cable shield at the point of panel entry, these glands utilise a spring contact to earth the shield as it passes through the panel or bulkhead. This allows the shield to be taken into the equipment and continue protecting the signal lines from any internally radiated emi. Typical environments where this may be required are electrical switching equipment where large voltage transients may occur generating local emc pulses. Their rugged construction also makes them ideally suitable for many other industrial process applications.

The glands are supplied without locknuts but both standard and cutting locknuts for these glands are available elsewhere.

Mftrs. List No.	Thread Size	Cable Diameter		Length (mm)	Thread length (mm)
		Min (mm)	Max (mm)		
50.616M/EMVDL-F	M16 x 1.5	5	9	35	10
50.620M/EMVDL-F	M20 x 1.5	9	13	37.5	10
50.625 M/EMVDL-F	M25 x 1.5	11	16	40.5	11
50.632 M/EMVDL-F	M32 x 1.5	14	21	43	13

492486

Mftrs. List No.	Thread Size	Order Code	Price Each			
			1+	10+	50+	100+
50.616M/EMVDL-F	M16 x 1.5	151-6938				
50.620M/EMVDL-F	M20 x 1.5	151-6939				
50.625 M/EMVDL-F	M25 x 1.5	151-6940				
50.632 M/EMVDL-F	M32 x 1.5	151-6941				

Standard and Cutting Brass Locknuts



- For use with standard and EMC brass glands
- Cutting locknuts ensure EMC compliance

These locknuts are intended for use with 'through-shield' or standard nickel plated brass glands. Both ranges are manufactured from high quality nickel plated brass and the cutting locknuts are especially useful for use with the EMC glands due to the cutting points obtaining a good EMC contact as they are tightened. This removes the requirement to degrease or remove powder coating and therefore reduces assembly time.

492504

Thread Size	Description	Order Code	Price Each			
			1+	10+	50+	100+
M16	Brass EMC Cutting Locknut	151-6943				
M20	Brass EMC Cutting Locknut	151-6944				
M25	Brass EMC Cutting Locknut	151-6945				
M32	Brass EMC Cutting Locknut	151-6946				
M16	Standard Brass Locknut	151-6947				
M20	Standard Brass Locknut	151-6948				
M25	Standard Brass Locknut	151-6949				
M32	Standard Brass Locknut	151-6950				

Steel Wire Armoured Cable Glands



Order Code	Mftrs. List No.	No of Glands, Shrouds, Tags & Locknuts per Kit/ Pack	Outer Sheath Min (mm)	Cable Dia Max (mm)
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Indoor BWK Gland Packs

725-7405DAVBW20S	DAVBW20S	2	12.9	15.8
725-7417DAVBW20	DAVBW20	2	15.5	20.8
725-7429DAVBW25	DAVBW25	2	20.3	27.2

Outdoor CWK Gland Packs

725-7466DAVCW20S	DAVCW20S	2	12.9	15.8
725-7478DAVCW20	DAVCW20	2	15.5	20.8
725-7480DAVCW25	DAVCW25	2	20.3	27.2

227226

Mftrs. List No.	Order Code	Price Per Pack			
		1+	5+	10+	25+
DAVBW20S	725-7405				
DAVBW20	725-7417				
DAVBW25	725-7429				
DAVCW20S	725-7466				
DAVCW20	725-7478				
DAVCW25	725-7480				

IP66 - Steel - 'Shureseal'™



A high strength steel body incorporating a neoprene compression seal and non-corrosive thrust washer which does not age or lose its grip after long use. It passes stringent performance tests such as 'driving rain', cutting oil and paraffin splash.

Entry connection M20 mounting thread
Operating temperature +70°Cmax.

Note: When using Order Code 9524 remove sufficient outer covering of cable to permit conductors to pass through connector body.

224126

Cable Dia. (mm)	Mftrs. List No.	Order Code	Price Each		
			1+	25+	100+
3.2-6.3	9520	121-2513			
6.3-9.5	9521-EU	121-2514			
9.5-12.7	9522-EU	121-2516			
11.4-14.2	9523	121-2517			
12.7-15.8	9524-EU	121-2518			

Cable Glands - continued

Brass Adaptors

REDAPT



- EEx D IIC brass flameproof adaptors **BAS No. Ex831216U**
- Provide a method of matching dissimilar threadforms on flameproof equipment whilst maintaining Ex certification

Male Thread	Female Thread	Hex. A/F	Hex. A/C	Male Length (mm)	Total Length (mm)	Bore Ø (mm)	Order Code
M20	M25	30.5	35.0	16	38.5	14	438-0460
PG16	M20	30.5	35.0	16	38.5	16	438-0496
1/2" NPT	M20	23.4	26.8	16	43.0	15	438-0502
M20	1/2" NPT	27	31	16	42.0	14	438-0514

214236

Male Thread	Female Thread	Order Code	1+	10+	25+	50+
M20	M25	438-0460				
PG16	M20	438-0496				
1/2" NPT	M20	438-0502				
M20	1/2" NPT	438-0514				

Reducers Brass

REDAPT



- EEx d IIC brass reducers **BAS No. EX89Y1404U**
- Provides a method of matching dissimilar threadforms on flameproof whilst maintaining Ex certification

Male Thread	Female Thread	Hex. A/F	Hex. A/C	Male Length (mm)	Total Length (mm)	Order Code
M25	M20	33.0	38.0	16	26	438-0526
M32	M20	37.6	43.2	16	26	438-0538
M32	M25	37.6	43.2	16	26	438-0540
3/4" NPT	M20	27.9	32.1	16	30	438-0551

214246

Male Thread	Female Thread	Order Code	1+	10+	25+	50+
M25	M20	438-0526				
	M20	438-0538				
	M25	438-0540				
	M20	438-0551				

Cable Jointing Kits

Cable Jointing Kits

3M



- The BK series is designed for low voltage armoured cable
- 600/1000V
- Short curing time
- Closed mix system
- Suitable for PVC, XLPE and rubber insulated cables
- Conforms to BS7888 (HD623)
- Suitable for 1,2,3 & 4 core cable

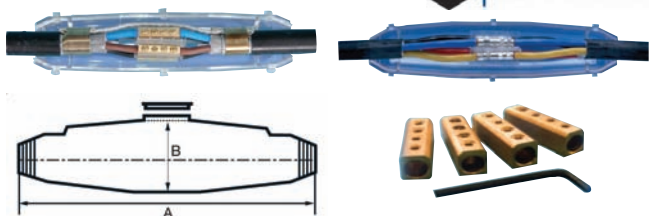
Scotchcast™ BK-series consists of a semi-transparent mold body using the pouring technology and the two-part polyurethane resin packed in a transparent bag. Easy and save to install splice. The resin has good mechanical properties and a low exothermic reaction.

510276

Mfrs.	Cable Diameter (mm)		Order Code	1+	5+	10+
List No.	Min	Max				
BK1	8	26	160-4560			
BK2	14	32	160-4561			
BK3	23	37	160-4562			
BK4	28	51	160-4563			

Low Voltage Resin Cable Joints

SPC pro-POWER



This range of Resin cable joints are designed for armoured or unarmoured cable, are of high quality and easy to use. Rigid and very strong, their snap-lock design forms an excellent seal and prevents egress of resin. The resin formula is of such quality that it provides excellent adhesion to PVC, XLPE, polythene and paper cables. It is supplied in two-part easy-mix packaging, ensuring both convenience and safety.

- Supplied complete with 4 mechanical connectors & Allen Key
- Provide safe separation of cores and connectors
- Two-part Polyurethane resin in protective aluminium foil
- Controlled curing temperature designed to be compatible with PVC, XLPE, EPR, Polythene and PILC cables
- Clear mixing instructions on every pack
- Full Health & Safety labelling
- Designed to meet the requirements of BS 6910, BS7888, CENELEC HD623 S1 and EN50393:2006

Cable Diameter (mm)	Shell Dimensions (mm)		Order Code	
	Min	Max	Armoured	Unarmoured
5	20	200	164-1099	164-1105
8	30	250	164-1100	164-1106
10	34	320	164-1101	164-1107
30	48	450	164-1102	164-1108
40	66	550	164-1103	164-1109

523176

Mfrs.	4 Core	Order Code	Price Each
List No.	Cable Size (mm ²)		1+ 5+ 10+
Armoured			
CM0+C	1.5 - 6	164-1099	
CM1+C	10 - 16	164-1100	
CM2+C	25	164-1101	
CM3+C	35 - 95	164-1102	
CM4+C	120	164-1103	
Unarmoured			
CM0+CEX	1.5 - 10	164-1105	
CM1+CEX	16	164-1106	
CM2+CEX	25 - 35	164-1107	
CM3+CEX	50 - 95	164-1108	
CM4+CEX	120	164-1109	

Cable Routing Tools

Cable Rod Sets

HellermannTyton



The cable rod sets have been specifically designed to be a time saving device to assist with many types of cable installation applications. This equipment can tackle some of the most difficult tasks users will encounter, routing, pulling and retrieving cables in the fastest and most economical way possible.

NEW

Deluxe Set

Description	The most comprehensive set for carrying out larger installations
Content Rods	2 x 4mm x 1000mm 6 x 5mm x 1000mm 2 x 6mm x 1000mm
Rod Capacity	10m
Content Attachments	150mm white flexi lead, split ring, gender changer, tuff hook, mini eye, domed bullet, flat bullet, beam, single magnet and light weight carry bag with shoulder strap.

Standard Set

Description	Designed to perform standard cable installation
Content Rods	10 x 4mm x 1000mm
Rod Capacity	10m
Content Attachments	150mm white flexi lead, gender changer, tuff hook, mini eye and light weight easy access carry bag.

Handy Set

Description	Suitable for tool box storage
Content Rods	1 x 4mm x 400mm 2 x 5mm x 400mm 1 x 6mm x 400mm
Rod Capacity	1.6m
Content Attachments	400mm white flexi lead, domed bullet, mini hook and mini eye.

618365

Mfrs.	Description	Order Code	Price Each
List No.			1+
CS-SB	Standard Set	185-1545	
CS-SD	Deluxe Set	185-1546	
CS-SH	Handy Set	185-1547	

Accessories

CS-P4	Cable Rod - 4mm x 1m (Pk2)	185-1549	
CS-P5	Cable Rod - 5mm x 1m (Pk2)	185-1551	
CS-P6	Cable Rod - 6mm x 1m (Pk2)	185-1552	
CS-PN	Cable Rod - 5mm x 1m (Pk2)	185-1553	
CS-ACG0415	Cable Grips - 4mm to 15mm (Pk3)	185-1554	
CS-ACG1630	Cable Grips - 16mm to 30mm (Pk2)	185-1555	
CS-AW	Whisk	185-1556	
CS-AMG2	Magnet	185-1557	
CS-AB	Beam	185-1558	
CS-SA	Attachment Kit	185-1559	

Cable Rod Mega Set

HellermannTyton



The Cable Rod system is a highly effective professional cable installation tool. It enables many installation jobs to be carried out single-handed, reduces disruption in busy workplaces and increases safety by reducing the need to use ladders. The system uses tough inter-connectable rods to push, pull or manoeuvre a cable to exactly where it is wanted, even in the most challenging of environments. Cables can be installed through walls, over ceilings, under floors and in conduit easily and quickly.

The Mega Set is the most comprehensive Cable Rod system and top of its range. With 16 Metres of length the Mega Set provides 6 Flexibilities, and the ability to Push, Pull, Retrieve, Grip and illuminate. The Mega Set is the choice for professionals for use in domestic environments, perfect for industrial and long reach work.

Rods Included:

- 6 x 1m x 5mm Standard red rods
- 3 x 1m x 6mm Stiffy black rods
- 3 x 1m x 4mm Floppy yellow rods
- 1 x 1m x 5mm Standard red swivel end rod
- 1 x 1m x 4mm Floppy yellow swivel end rod
- 1 x 1m x 5mm Swivel end rod glow
- 1 x 1m x 5mm Super flexi lead
- 1 x 175mm Flexi lead
- 1 x 250mm Black flexi lead

Accessories Included:

- Chain
- Single magnet
- Domed bullet
- Flat bullet
- Tuff Hook
- Mini eye and push pull ring
- Gender changer
- Super grip 6-10mm
- Super grip 11-15mm
- Super-beam torch attachment
- See below for full range of accessories

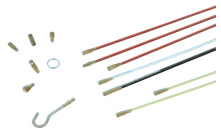
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Price Per Kit

Order Code	1+	3+
129-7509		

Super Six Cable Rod Multi-Purpose Installation Tool

HellermannTyton



The Cable Rod system is a highly effective professional cable installation tool. It enables many installation jobs to be carried out single-handed, reduces disruption in busy workplaces and increases safety by reducing the need to use ladders. The system uses tough inter-connectable rods to push, pull or manoeuvre a cable to exactly where it is wanted, even in the most challenging of environments.

Cables can be installed through walls, over ceilings, under floors and in conduit easily and quickly.

The Super Six is a carefully selected flexible range that offers an ideal compromise for those who face challenges in both commercial and domestic installations.

- 3 x 1m x 5mm Standard red rods
- 1 x 1m x 6mm Stiffy black rods
- 2 x 1m x 4mm Floppy yellow rods
- 175mm Flexi Lead
- Domed Bullet
- Mini eye and Ring
- Gender Changer
- Tuff Hook
- Single Magnet
- Thread cleaning flat bullet
- See below for full range of accessories

450585

Price Per Kit

Order Code	1+	+
872-2340		

Cable Rod Attachments

HellermannTyton



- A comprehensive range of Cable Rod attachments
- Magnet Compass (431-7099)

For effortless rod end location and tracing. The MagCom is ideal when working blind in studwalls or over solid ceilings. Minimises effort and damage to the working environment.

- Chain and Magnet (129-7512)

A fantastically useful attachment set. A lifesaver when you are working unsighted or only have a small access hole, the chain literally jumps onto the magnet. Perfect for making the link between lost or obscured rod ends and access holes.

- Double Magnet (129-7514)

You have to experience the strength of this tiny magnet to believe its power - it is strong enough to pick up a 2.5 Kg (5 lb) lump hammer.

Not only great at retrieving lost tools it can be used to pick up a hook on the end of another

rod and pull it across a void.

- Torch attachment for Cable Rod (872-2358)

Described by many customers as "a must have attachment". This super bright LED torch attachment which has a continuous run time of 6 hours screws onto the end of the rod and allows you to see obstructions within the cavity space without struggling to reach in with a torch.

- The Glider (129-7513)

This attachment allows the rod to glide over rough and uneven surfaces, such as joists and glass-fibre insulation without snagging.

It can be used in cable trays.

- Mixed Pack of 5 (1516093)

Contains the following attachments: 1 x Tuff Hook, 1 x Thread Cleaning Flat Bullet, 1 x Gender Changer, 1 x Domed Bullet and 1 x Mini Eye and Ring

- Mixed Pack of 7 (1516094)

Contains the following attachments: 1 x Tuff Hook, 1 x Mini Hook, 1 x Single Magnet, 1 x Flat Bullet, 1 x Domed Bullet, 1 x Mini Eye and Ring and 1 x Thread Cleaning Flat Bullet

- Flexi Lead Kit (1516095)

These little devices can also be tied into a knot - but they do keep their shape so you can pre-bend them (again and again) to get a end attachment into really fiddly places or when two holes do not line up. Also includes a 350mm Flexi Lead and Domed Bullet.

450588

Description	Order Code	1+	3+	Price Each
Magnet and Compass	431-7099			
Magnet & Chain	129-7512			
Double Magnet	129-7514			
Torch Attachment	872-2358			
Glider	129-7513			
Mixed Pack of 5	151-6093			
Mixed Pack of 7	151-6094			
Flexi Lead Kit	151-6095			
Rod Pair	431-7087			

Magnetic Cable Guide Tool



A powerful pick-up tool for safely threading wires and cables through cavity walls and void spaces, even when holes which are slightly off-set the tool can pick up the connection within the cavity. Ideal for telecommunications, IT, domestic or commercial wiring, manufacturing and the automotive industry.

Available in 2 kits either with a 400mm drill bit or without.

- For use on walls and flooring depths of 1000mm including a maximum cavity space of 300mm

Kit contains:

- 1x 440mm Cable Guide, 2x 355mm Extension pieces and 5x Colour-coded End Caps and drill bit supplied with the drill bit kit.

Magnetic Cable End Caps:

- 1 x White 3.7mm - 4.3mm,
- 1 x Orange 4.3mm - 5.2mm,
- 1 x Grey 4.4mm - 5.1mm,
- 1 x Black 5.2mm - 5.9mm,
- 1 x Yellow 6.0mm - 6.6mm

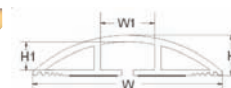
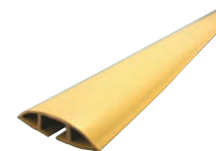
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Description	Order Code	Price Each
Basic Kit	182-6988	
Basic Kit + Drill Bit	182-6987	

Cable Protectors

Cable Protectors

SPC pro-POWER



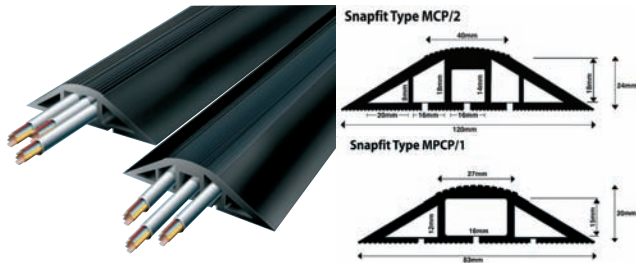
- Manufactured from grey PVC
- Packed in rolls for easy storage
- Cut to required length for temporary wiring or permanent applications

542465

1.83m Reel		Price Each				
Size W x H (mm)	Duct Size (mm)	Order Code	1+	5+	10+	50+
25.4 x 5.8	7.4 x 3.8	174-0440				
50.8 x 11.6	14.8 x 7.8	174-0442				
66 x 15.3	19 x 10.9	174-0443				
76.2 x 17.4	22 x 11.6	174-0444				
101.6 x 23.2	29.4 x 15.4	174-0445				

Cable Protectors - continued

Snap Fit Cable Protectors



A range of rubber cable protectors which are designed to help prevent accidents within the workplace such as tripping over trailing cables etc.

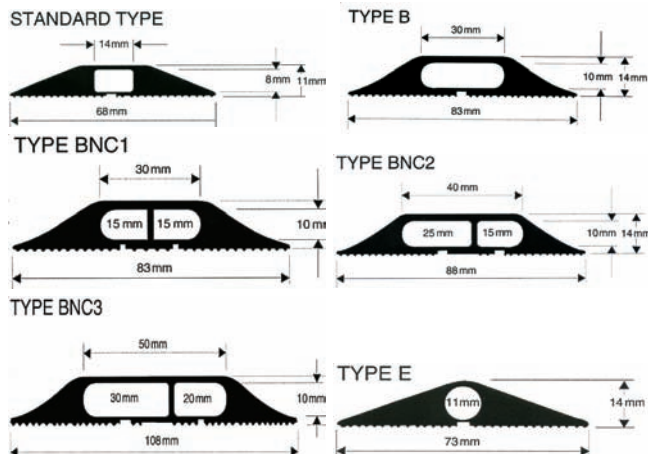
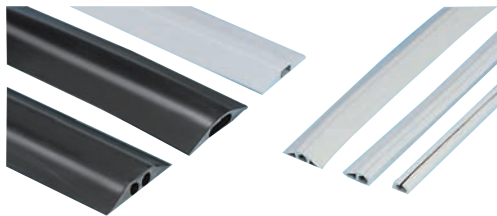
- Compartments to segregate cables up to 16mm diameter
- Non slip top
- Snaps open for fast and simple installation
- Manufactured from a special elastomer rubber
- Flexible, rugged and hard wearing
- Low lying profile geometry
- Ridges, non-slip top
- Can be relaid as required
- Low smoke, non toxic and low fume emission
- Produced from a fire retardant compound to BS276 part 7 class 3, DIN 4102 part 1 and class B1
- UV stabilised for extended life
- Tested for non conductivity to BS903-C5, 500V
- Produced in accordance with ISO9002
- Available in black or grey

462289/503345

Mftrs. List No.	Colour	Length	Order Code	Price Each		
				1+	5+	10+
MCP/1 1.5MB	Black	1.5m	155-6215			
MCP/1 1.5MG	Grey	1.5m	155-6217			
MCP/1 3MB	Black	3m	155-6218			
MCP/1 3MG	Grey	3m	155-6219			
MCP/2 1.5MB	Black	1.5m	155-6220			
MCP/2 1.5MG	Grey	1.5m	155-6221			
MCP/2 3MB	Black	3m	155-6222			
MCP/2 3MG	Grey	3m	155-6223			

Snap Fit®

Rubber Cable Protectors

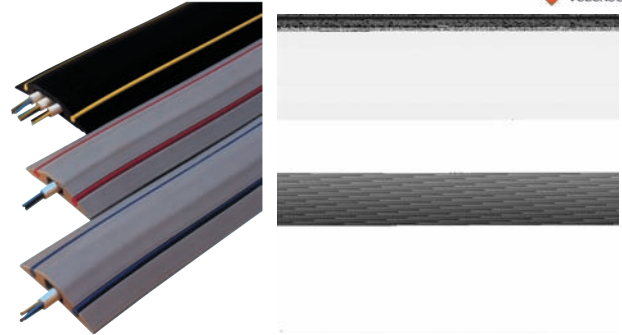


- Prevents accidents caused by loose leads and cables
- No need to thread cables through profile or use knife to slit moulding
- Membrane in base easily opened to allow cable insertion then snaps back into place. Moulding can then be positioned on floor area. Adhesive tape not supplied but can be used if required. Designed for most general purpose cables and leads in offices or houses.
- UV stabilised for outdoor use
- Halogen free, low smoke and fume
- Fire retardant to BS476 Part 7 Class 3, DIN4102 Part 1 and Class B1

385628

Profile/Image	Colour	Length	Order Code	Price Per Length	
				1+	5+
Snap Fit Standard	Black	1m	303-0246		
	Grey	1m	303-0258		
	Black	3m	303-0260		
Type B	Grey	3m	303-0271		
	Black	1m	303-0283		
	Grey	1m	303-0295		
Type E	Black	3m	303-0301		
	Grey	3m	303-0313		
	Black	9m	871-6633		
Type BNC1	Black	3m	871-6650		
Type BNC2	Black	3m	871-6838		
Type BNC3	Black	3m	871-6854		
			871-6870		

Cable Protectors

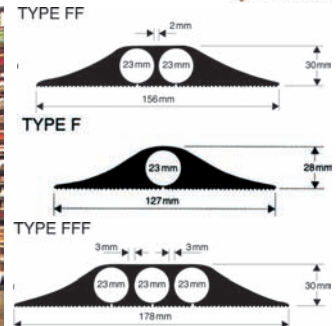


- High visibility cable protectors
- Protectors feature eye catching warning stripes that run along each side of the profile
- Ideally suited for office environments
- Unique 'snap open' feature for fast and simple installation
- Low lying profile geometry
- Can be re-laid as required

386964

Image	Colour	Length (m)	Order Code	Price Per Length	
				1+	3+
Type 1	Black / Yellow	3	431-8249		
Type 1	Black / Yellow	9	431-8250		
Type 2	Black / Yellow	3	431-8262		
Type 2	Black / Yellow	9	431-8274		
Type 1	Grey / Red	3	431-8286		

Industrial Cable Protector



- Specifically designed to resist the harsh environmental conditions of outdoor use
- Protects dangerous heavy duty cables from damage on construction sites, shipyards and oil rigs
- Split the base with round ended scissors for simple application
- Halogen free, low smoke and fume
- Fire retardant to BS476 Part 7 Class 3, DIN4102 Part 1 and Class B1

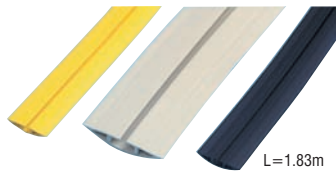
385661

Profile/Image	Colour	Length	Order Code	Price Per Length	
				1+	3+
Type F	Black	4.5m	872-4784		
Type FF	Black	4.5m	872-4741		
Type FFF	Black	4.5m	872-4750		

TROUBLESHOOTING TIPS

Chat online to one of our technical engineers at farnell.com

Cable Guard



- Prevents people from tripping over cables and wiring routed over floors
- Protects cables and wires
- Flexible vinyl material which can easily be cut to length
- Cables slip into slit in base
- Supplied with double sided adhesive tape for fixing to carpet, tile or concrete floors



208227

Width	Colour	Mftrs. List No.	Order Code	Price Per Roll		
				1+	5+	10+
31.8mm	Ivory	FG1E16-A	117-9894			
31.8mm	Black	FG1BL6-A	117-9896			
31.8mm	Safety Yellow	FG1YL6-A	117-9897			
62mm	Ivory	FG3E16S-A	117-9898			
62mm	Black	FG3BL6S-A	117-9899			
62mm	Safety Yellow	FG3YL6S-A	117-9900			

Snap Bushing & Hole Plugs

Grommets



A ridged black Nylon 66 bush. Push fitting to protect and insulate holes in metal chassis. To fit panel thickness 0.8mm to 3.2mm. Flame retardant to **UL94V-2**.

Mounting hole dia. (mm)	Bush hole dia. (mm)	Overall dia. (mm)	Overall depth (mm)	Order Code
9.5	6.3	12	10.3	126-9038
13	8.2	14.5	10.3	126-9039
15.9	12.2	18.6	10.3	126-9040
18.9	14.3	21.5	10.3	126-9041
22	17.3	23.8	11.5	126-9043
25.5	19.1	28	11.5	126-9044

224118

100 Per Pack

Mounting hole dia. (mm)	Order Code	Price Per Pack			
		1+	5+	10+	25+
9.5	126-9038				
13	126-9039				
15.9	126-9040				
18.9	126-9041				
22	126-9043				
25.5	126-9044				

Caps/Plugs



Hole plug in black Nylon 66. Push fitting to blank unwanted holes. To fit panel thickness 0.8mm to 3.2mm. Flame retardant to **UL94V-2**.

Mounting hole dia. (mm)	Overall dia. (mm)	Overall depth (mm)	Order Code
9.5	13	10.5	126-9046
12.7	16.5	10.5	126-9047
15.9	19.5	10.5	126-9048
19	22.9	10.5	126-9049
22.2	25.8	11.3	126-9050
25.3	29	11.6	126-9051

224119

Mounting hole dia. (mm)	Order Code	Price Per Pack			
		1+	5+	10+	25+
9.5	126-9046				
12.7	126-9047				
15.9	126-9048				
19	126-9049				
22.2	126-9050				
25.3	126-9051				

Desk Cable Ties



- Manufactured from polypropylene
- Designed to keep computer, telephone and other cables neat and out of sight

Profile	Colour	Hole Size	Shank Height	Order Code
Round	Black	60mm	21mm	431-8699
Round	Grey	80mm	21mm	431-8705
Round	Brown	80mm	21mm	431-8717
Round	Black	80mm	21mm	431-8729

624068

Order Code	Price Each		
	1+	3+	5+
431-8699			
431-8705			
431-8717			
431-8729			

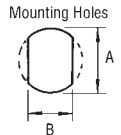
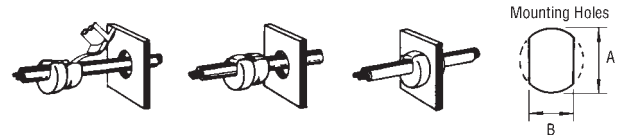
Cable Strain Relief

Strain Relief Bushes



434-243

L=185



A range of strain relief bushes to protect and securely anchor cables for through panel entry/exit. Manufactured in Black Nylon 66. Flame retardant to **UL94V-2**.

Cable Dia. (mm)	Mounting Holes (mm)		Panel Thickness (mm)	Order Code
	A	B		
6.2-7.4	12.7	11.5	0.5-1.6	126-9026
6.2-7.4	12.7	11.5	1.8-2.5	126-9027
7.6-7.6	12.7	11.8	1.8-2.3	126-9028
7.4-8.2	15.9	14	0.5-1.6	126-9029
7.4-8.2	15.9	14	1.9-3.2	126-9030
8.2-9.2	15.9	14	0.5-1.6	126-9031
8.2-9.2	15.9	14	1.9-3.2	126-9032

224120

100 Per Pack

Cable Dia. (mm)	Order Code	Price Per Pack				
		1+	5+	10+	25+	50+
6.2-7.4	126-9026					
6.2-7.4	126-9027					
7.6-7.6	126-9028					
7.4-8.2	126-9029					
7.4-8.2	126-9030					
8.2-9.2	126-9031					
8.2-9.2	126-9032					

Price Each

Assembly tool	434-243	Price Each			
		1+	5+	10+	25+

Grommet Glands



These glands are supplied complete with a self-locking TY-RAP and when fitted form a weather-tight seal. When assembled it is almost impossible to withdraw the cable.

Panel	Cable	Mftrs.	Order Code
16	4-7	7401	121-2519
20	7-12	7402	121-2520
25	12-18	7403	121-2521

Panel thickness 3.0mm nominal

224121

Mftrs. List No.	Order Code	Price Each			
		1+	10+	50+	100+
7401	121-2519				
7402	121-2520				
7403	121-2521				

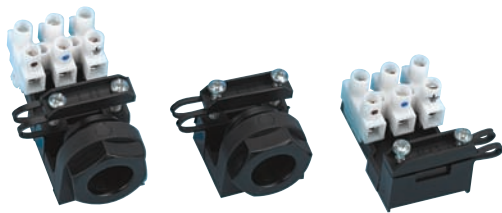


IMPROVED BACK ORDER DELIVERY

Receive email updates with the exact status, due date and despatch information of all your back order items farnell.com

Cable Strain Relief - continued

Conclamps



Type A H=30.5 W=28mm, Depth behind panel =59mm Max. cable diameter=13.5mm
 Type B H=29, W=29mm, Depth behind panel=24mm Max. cable diameter=13.5mm
 Type C H=21, W=28mm, Depth behind panel=44mm

- Moulded in Black Nylon 66
- **Type A** consists of an insulated M20 cable entry bush, clamping facilities and a 3-way terminal block
- **Type B** is the same as Type A without the terminal block. This is used where the panel depth is restricted and the cable can be terminated elsewhere
- **Type C** consists of clamping and termination facilities only
- For **IP66** protection on Type A and B clamps replace the cable bush with M20 thread Nylon cable glands shown below

Current rating 10 A Operating temperature -40 °C to 110 °C
 Voltage rating 380 V ac

208333

Order Multiple=5	Order Code	Price Each			
		5+	50+	100+	250+
Type A	146-180				
Type B	320-1430				
Type C	120-4682				

Cable Reel Holders

Rack-A-Tiers

The Multi-Purpose Premium Wire Dispensing Tool

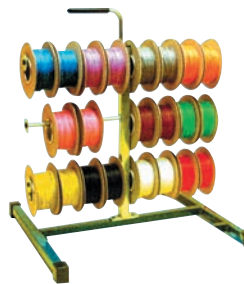


- Ease of transport and storage
- Lightweight
- Durable one piece construction
- Waterproof, easy-clean
- Won't rust or rot
- Won't mark surfaces
- Made of recycled material
- Unmatched ease & ease of set up
- Excellent versatility of use
- Accommodates wide range in cable sizes
- Wire dispenser
- Pipe vise
- Saw horse
- Work bench
- Wall shelf
- Table
- Loads of up to 150Kg (330lbs)
- Has 5 x 1 1/4 (44.5mm) holes, 3 x carry handles & 2 x V notches to hold larger cable bars
- Easy to store & transport

490803

Mfrs.	List No.	Order Code	1+	5+	Price Each
	RT1	150-3051			

Cable Tree Junior

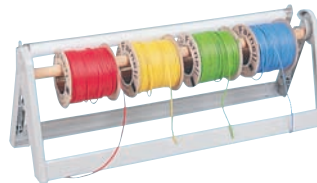


- Constructed from mild steel with a painted base, plated top and carry handle
- Tree will hold several reels of varying size
- The branches are designed with no pins or clips to enable reels to be changed quickly and simply
- Ideal for use on benches and in small workshops
- H:610, W:530, D: 460mm

248712

Order Code	1+	3+	Price Each
431-8754			

Cable Reel Holder



Manufactured from pressed steel with an 18mm wooden cable reel support rod. The reel holder is suitable for either bench or wall mounting. Screw holes are revealed by removing four rubber feet. A sprung foam edged tension bar prevents the cable from reeling out excesses of cable. Supplied with five hard-board reel separators.

H=198, W=555, D=175mm

Maximum reel diameter (mm) 254 Colour Grey
 Maximum combined reel width (mm) 520

224127

Order Code	1+	Price Each		
		4+	8+	16+
145-461				

'Reel Master'

MASTER TECHNOLOGY



H=113, W=562, D=530

A sturdy yet lightweight cable reel stand of cast aluminium construction with galvanised steel rollers. Designed to help eliminate handling problems associated with larger sizes of cable reels. The rollers are adjustable to accommodate a wide range of reel diameters.

Supplied in flat pack form with full assembly instructions.

Weight 7.5kg
 Minimum reel diameter 120mm
 Maximum reel diameter 1.2m
 Maximum reel width 520mm
 Maximum reel weight 140kg

227259

Order Code	1+	Price Each	
		5+	10+
218-042			



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