

**3M**



**HellermannTyton**  
A SPIRENT Company



**PRO-POWER**  
Quality Cables

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# 3

## Cable Accessories



**Cable Harnessing & Accessories**

**Tak-Ty™**



- Double sided Tak-Ty™ with back to back hooks and loops
- Self-gripping and re-useable
- Textile material reduces damage to cable
- Loop ties have mounting hole for permanent fixing
- Available in roll form and cinching ties with plastic loop for extra strength and bundle tightness

	Length	Width	Min. Bundle Dia.	Max. Bundle Dia.	Mfrs. List No.
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

208163/438849

Colour	Length	Order Code	Price Each			
			1+	10+	25+	100+
<b>Loop Ties</b>						
Black	203	117-9882	2.25	1.89	1.61	1.32
Black	305	117-9884	2.89	2.46	2.08	1.76
<b>Cinching Ties</b>						
Black	305	117-9885	3.18	2.71	2.30	1.95
Black	457	117-9886	3.88	3.28	2.84	2.39
<b>4.5m Roll</b>						
Black	4572	117-9887	38.71	33.96	28.92	24.48
Red	4572	117-9888	38.71	33.96	28.92	24.48
Orange	4572	117-9889	38.71	33.96	28.92	24.48
Yellow	4572	117-9890	38.71	33.96	28.92	24.48
Green	4572	117-9891	38.71	33.96	28.92	24.48
Blue	4572	117-9892	38.71	33.96	28.92	24.48
Grey	4572	117-9893	38.71	33.96	28.92	24.48

**Hook And Loop Ties**



- Hooks and loops on the same side allow you to secure a greater range of bundle diameters
- Low profile contoured cinch ring reduces overall bundle size
- Soft hook and loop material maintains network data integrity by protecting against over-tensioning, unravelling and delamination
- Releasable and reusable hundreds of times, so ideal for applications requiring frequent moves, or changes
- Tapered tip facilitates easy, snag-free threading to speed installation time
- Brass grommet assures reliable installations with a high strength metal grommet that resists pull-out
- **Note: Minimum 2" overlap required to achieve loop tensile rating**

Colour	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
Black	305	21.6	76	222	101-5605
Red	305	21.6	76	222	101-5607
Orange	305	21.6	76	222	101-5608
Yellow	305	21.6	76	222	101-5609
Green	305	21.6	76	222	101-5610
Blue	305	21.6	76	222	101-5611
Grey	305	21.6	76	222	101-5612
White	305	21.6	76	222	101-5613
Black	457	21.6	127	222	101-5614
Red	457	21.6	127	222	101-5615
Orange	457	21.6	127	222	101-5616
Yellow	457	21.6	127	222	101-5617
Green	457	21.6	127	222	101-5619

Colour	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
Blue	457	21.6	127	222	101-5621
Grey	457	21.6	127	222	101-5622
White	457	21.6	127	222	101-5623
<b>Centre Mounting Grommet</b>					
Black	305	21.6	76	222	101-5624
Red	305	21.6	76	222	101-5625
Orange	305	21.6	76	222	101-5626
Yellow	305	21.6	76	222	101-5627
Green	305	21.6	76	222	101-5628
Blue	305	21.6	76	222	101-5629
Grey	305	21.6	76	222	101-5630
White	305	21.6	76	222	101-5631
Black	457	21.6	127	222	101-5632
Red	457	21.6	127	222	101-5633
Orange	457	21.6	127	222	101-5634
Yellow	457	21.6	127	222	101-5635
Green	457	21.6	127	222	101-5636
Blue	457	21.6	127	222	101-5637
Grey	457	21.6	127	222	101-5638
White	457	21.6	127	222	101-5639
<b>End Mounting Grommet</b>					
Black	305	21.6	76	222	101-5640
Red	305	21.6	76	222	101-5641
Orange	305	21.6	76	222	101-5642
Yellow	305	21.6	76	222	101-5643
Green	305	21.6	76	222	101-5644
Blue	305	21.6	76	222	101-5645
Grey	305	21.6	76	222	101-5646
White	305	21.6	76	222	101-5647
Black	457	21.6	127	222	101-5648
Red	457	21.6	127	222	101-5649
Orange	457	21.6	127	222	101-5650
Yellow	457	21.6	127	222	101-5651
Green	457	21.6	127	222	101-5652
Blue	457	21.6	127	222	101-5653
Grey	457	21.6	127	222	101-5654
White	457	21.6	127	222	101-5655

419706/436615

10 Per Pack Order Code	1+	Price Per Pack	3+
101-5605	53.28		47.95
101-5607	53.28		47.95
101-5608	53.28		47.95
101-5609	53.28		47.95
101-5610	53.28		47.95
101-5611	53.28		47.95
101-5612	53.28		47.95
101-5613	53.28		47.95
101-5614	59.40		53.48
101-5615	59.40		53.48
101-5616	59.40		53.48
101-5617	59.40		53.48
101-5619	59.40		53.48
101-5621	59.40		53.48
101-5622	59.40		53.48
101-5623	53.28		47.95
101-5624	75.87		68.29
101-5625	75.87		68.29
101-5626	75.87		68.29
101-5627	75.87		68.29
101-5628	75.87		68.29
101-5629	75.87		68.29
101-5630	75.87		68.29
101-5632	75.87		68.29
101-5633	80.50		72.42
101-5634	80.50		72.42
101-5635	80.50		72.42
101-5636	80.50		72.42
101-5637	80.50		72.42
101-5638	80.50		72.42
101-5639	80.50		72.42
101-5640	80.50		72.42
101-5641	75.87		68.29
101-5642	75.87		68.29
101-5644	75.87		68.29
101-5645	75.87		68.29
101-5646	75.87		68.29
101-5647	75.87		68.29
101-5648	75.87		68.29
101-5649	75.87		68.29
101-5650	82.32		74.12
101-5651	82.32		74.12
101-5652	82.32		74.12
101-5653	82.32		74.12
101-5654	82.32		74.12
101-5655	82.32		74.12
101-5656	82.32		74.12
101-5657	82.32		74.12
101-5658	82.32		74.12

Hook and Loop Ties

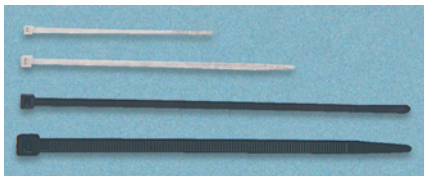


- Hook and loop ties available in 3 different styles
- Easy to release and reuse
- Ideal for use where frequent access is required and where over tightening is a concern
- Type A: Standard hook and loop tie with mounting hole
- Type B: Hook and loop tie with plastic loop for increased strength
- Type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

Type	Length	Width	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	Yellow	372-7762
Type C	4572	19	Green	372-7774
Type C	4572	19	Blue	372-7786
Type C	4572	19	White	372-7798

Colour	Length	Order Code	Price Each			
			1+	5+	10+	50+
<b>Type A</b>						
Black	203	372-7701	0.90	0.78	0.63	0.48
Black	305	372-7713	1.20	0.99	0.78	0.57
<b>Type B</b>						
Black	305	372-7725	2.40	1.80	1.20	0.60
Black	457	372-7737	2.85	2.16	1.47	0.75
<b>Type C</b>						
Black	4572	372-7749	12.00	9.48	6.99	4.50
Red	4572	372-7750	12.00	9.48	6.99	4.50
Yellow	4572	372-7762	12.00	9.48	6.99	4.50
Green	4572	372-7774	12.00	9.48	6.99	4.50
Blue	4572	372-7786	12.00	9.48	6.99	4.50
White	4572	372-7798	12.00	9.48	6.99	4.50

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 +8585°C

Length	Width	Min. Tensile Strength (kg)	Max. Bundle Dia.	Natural Order Code	Black Order Code
102	2.5	8.1	25	268-495	268-598
200	2.5	8.1	50	268-501	268-604
140	3.6	18.2	30	268-513	268-616
200	3.6	18.2	75	268-525	268-628
120	4.8	22.2	24	268-537	268-630
200	4.8	22.2	50	268-549	268-641
250	4.8	22.2	75	268-550	268-653
370	4.8	22.2	100	268-562	268-665
200	7.6	54.5	50	268-574	268-677
375	7.6	54.5	105	268-586	268-689

100 Per Pack	Order Code	Price Per Pack			
		1+	5+	10+	25+
<b>Natural</b>					
	268-495	4.11	3.69	2.16	1.80
	268-501	6.09	5.31	4.44	3.72
	268-513	5.69	5.16	4.23	2.73
	268-525	7.47	6.96	5.76	4.53
	268-537	6.67	5.94	5.01	4.26
	268-549	7.99	7.56	6.09	5.16
	268-550	16.55	14.52	12.39	10.17
	268-562	17.75	17.10	13.32	10.92
	268-574	22.83	19.98	17.07	14.10
	268-586	25.15	24.21	20.97	16.65
<b>Black</b>					
	268-598	4.25	3.72	3.18	2.55
	268-604	6.09	5.31	4.44	3.72
	268-616	6.27	5.52	4.65	3.90
	268-628	13.89	11.58	9.81	8.16
	268-630	6.67	5.94	5.01	4.26

100 Per Pack	Order Code	Price Per Pack			
		1+	5+	10+	25+
	268-641	10.10	8.88	7.38	6.09
	268-653	16.55	14.52	12.39	10.17
	268-665	20.99	18.42	15.54	12.87
	268-677	22.83	19.98	17.07	14.10
	268-689	33.66	29.61	25.17	20.70

Nylon And Weather Resistant Nylon 6.6 Cable Ties



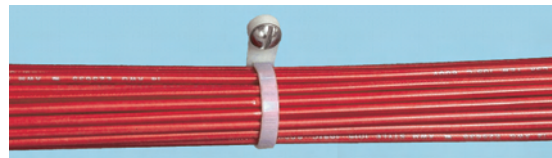
- Particularly suited for thro panel hole applications
- Average 14% lighter than one-piece ties
- Releasable for bundle modifications prior to tensioning and cut-off
- Exclusive two-piece design offers the lowest threading force in the industry
- Weather resistant black nylon has greater resistance to ultra-violet light which damages natural nylon



	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
Natural	376	7.6	102	534	101-5522
Natural	699	7.6	203	534	101-5523
Black	102	2.4	20	80	101-5524
Black	279	3.4	76	178	101-5525
Black	172	4.6	45	222	101-5526
Black	279	4.6	76	222	101-5528
Black	381	4.6	102	222	101-5529
Black	376	7.6	102	534	101-5530
Black	699	7.6	203	534	101-5531

50 Per Pack	Order Code	Price Per Pack	
		1+	3+
	101-5522	67.25	60.51
	101-5523	182.02	163.82
<b>100 Per Pack</b>			
	101-5524	18.55	16.70
	101-5525	96.38	86.75
	101-5526	41.79	37.60
	101-5528	81.02	72.94
	101-5529	100.09	90.07
<b>50 Per Pack</b>			
	101-5530	77.37	69.62
	101-5531	210.11	189.08

Clamp Ties-Outdoor



- Used to secure a wire bundle to another surface such as a control panel, wall or ceiling
- The design allows for bundling before or after screwing clamp in place
- All cable tie cross sections have a curved tip that is easier to pick up from flat surfaces, allows faster initial threading and speeds installation



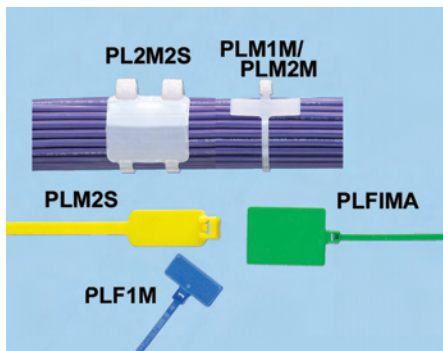
	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
Miniature	109	2.5	19	80	101-5536
Intermediate	155	3.4	32	178	101-5537
Standard	201	4.8	47	222	101-5538
Standard	201	4.8	47	222	101-5541
Standard	305	4.8	76	222	101-5542
Standard	381	4.8	102	222	101-5543
Heavy	384	7.6	102	534	101-5544

100 Per Pack	Order Code	Price Per Pack	
		1+	3+
	101-5536	18.55	16.70
	101-5537	24.93	22.46
	101-5538	31.15	28.06
	101-5541	31.15	28.06
	101-5542	59.27	53.35
	101-5543	70.18	63.18
<b>50 Per Pack</b>			
	101-5544	62.63	56.34





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

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Order Code	1+	Price Per Pack	3+
101-5587	29.98		26.95
101-5589	27.70		24.90
101-5591	49.15		44.24
50 Per Pack		115.03	103.54
100 Per Pack			
101-5593	35.38		31.87
101-5594	35.38		31.87
101-5595	47.00		42.31

Canister Pack Cable Ties



Canister contents:

- CP-300**  
100 x 2.5: 100 each -Natural, 25 each - Red, Yellow, Blue, Green  
203 x 3.2: 50 each -Natural, 25 each - Red, Blue
- CP-400**  
100 x 2.5: 100 each -Red, Blue, Green  
203 x 3.2: 100 each -Natural
- CP-1000**  
100 x 2.5: 100 each -Natural, Black, Red, Yellow, Blue, Green, Purple, Grey, Orange, Neon Yellow
- BP-850**  
100 x 2.5: 100 each -Natural, Red, Yellow, Blue, Green  
203 x 4.6: 300 each -Natural  
280 x 4.8: 50 each -Natural

Length	Width	Operating temperature -40°C to +85°C	
		Min. Tensile Strength (kg)	Max. Bundle Dia.
100	2.5	8.1	25
100	2.5	8.1	25
203	4.6	22.7	55
280	4.8	22.7	81

208291

Mfrs. List No.	Order Code	1+	5+	10+	25+	Price Per Pack
CP-300	303-0489	30.54	27.21	25.68	22.29	
CP-400	303-0490	36.63	32.64	30.84	26.79	
CP-1000	303-0507	54.93	48.96	46.20	40.77	
BP-850	303-0519	54.93	48.96	46.20	40.77	

Mounting Cable Ties



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

Length	Width	Operating temperature -40°C to +85°C		Min. Tensile Strength (kg)	Max. Bundle Dia.	Natural Order Code	Black Order Code
		Min. Tensile Strength (kg)	Max. Bundle Dia.				
100	2.5	8	25	121-8016	433-950		
155	3.7	18	40	433-925			
205	4.2	22	60	433-937	433-974		
370	4.8	22	102	--	433-986		

208035

100 Per Pack		Price Per Pack					
L	W	Max. Dia.	Order Code	1+	5+	10+	50+
<b>Natural</b>							
100	2.5	25	121-8016	7.99	7.05	5.97	5.01
155	3.7	40	433-925	10.43	9.09	7.77	6.51
205	4.2	60	433-937	17.29	15.06	12.90	10.77
<b>Black</b>							
100	2.5	25	433-950	7.99	7.05	5.97	5.01
205	4.2	60	433-974	17.29	16.74	--	--
370	4.8	102	433-986	31.52	28.08	24.96	21.84

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
100	2.5	8	25	25 x 8	433-998

FOR SUITABLE MARKER PEN SEE ORDER CODE 217-281

224069

100 Per Pack		Price Per Pack					
L	W	Max. Dia.	Order Code	1+	5+	10+	50+
100	2.5	25	433-998	7.74	6.84	5.79	4.86

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 13 ultraviolet colours (to match the foam) that will last 2-3 times longer than normal pigmented colours

**NEW**

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 Toffee	389	8.9	115	550	101-5577
UV Green	389	8.9	115	550	101-5578
UV Green	389	8.9	115	550	101-5579
UV Blue	389	8.9	115	550	101-5580
UV Light Blue	389	8.9	115	550	101-5581

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.



Colour	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
UV Blue	389	8.9	115	550	101-5582
UV Purple	389	8.9	115	550	101-5583
UV Silver	389	8.9	115	550	101-5584
UV Teal	389	8.9	115	550	101-5585
UV Pink	389	8.9	115	550	101-5586

419691/436607

100 Per Pack Order Code	Price Per Pack
	1+ 3+
101-5567	38.25 34.44
101-5568	38.25 34.44
101-5569	38.25 34.44
101-5570	38.25 34.44
101-5571	38.25 34.44
101-5572	38.25 34.44
101-5573	38.25 34.44
101-5574	63.41 57.06
101-5575	63.41 57.06
101-5577	63.41 57.06
101-5578	63.41 57.06
101-5579	63.41 57.06
101-5580	63.41 57.06
101-5581	63.41 57.06
101-5582	63.41 57.06
101-5583	63.41 57.06
101-5584	63.41 57.06
101-5585	63.41 57.06
101-5586	63.41 57.06

**Releasable Cable Ties**



- 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

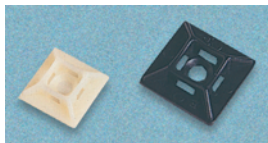
Operating temperature: -40°C to +85°C

Length	Width	Min. Tensile Strength (kg)	Max. Bundle Dia.	Natural Order Code	Black Order Code
125	7.6	22	30	121-8017	434-050
150	8	22	35	434-024	434-061
200	8	22	50	434-036	434-073
300	8	22	80	434-048	434-085

208054

100 Per Pack			Price Per Pack				
L	W	Max. Dia.	Order Code	1+	5+	10+	50+
<b>Natural</b>							
125	7.6	30	121-8017	10.04	8.82	7.47	6.24
150	8	35	434-024	12.64	11.04	9.42	8.04
200	8	50	434-036	14.78	12.96	11.07	9.24
300	8	80	434-048	24.14	21.18	18.00	14.85
<b>Black</b>							
125	7.6	30	434-050	10.04	8.82	7.47	6.24
150	8	35	434-061	12.64	11.04	9.42	8.04
200	8	50	434-073	14.78	12.96	11.07	9.24
300	8	80	434-085	24.14	21.18	18.00	14.85

**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

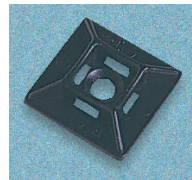
Operating temperature: -15°C to +75°C

Base Size	Max. Cable Tie Width	Central Hole Dia.	Natural Order Code	Black 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

100 Per Pack Order Code	Price Per Pack
	1+ 5+ 10+ 50+
Natural 268-690	15.24 13.59 11.52 9.60
268-707	18.03 15.90 13.59 10.53
Black 268-719	15.24 13.59 11.52 9.60
268-720	18.03 15.90 13.59 11.43

**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

100 Per Pack Order Code	Price Per Pack
	1+ 5+ 10+ 50+
Natural 121-8024	16.68 14.70 12.57 10.59
Black 121-8026	19.24 16.96 14.48 12.43

**Hook & Loop Cable Tie Mounts**



- These mounts are to be applied with an M3 screw
- Tear tab provides fast and easy liner removal to speed installation
- For indoor use

Material	Colour	Height (mm)	Length (mm)	Width (mm)	Order Code
Nylon 6.6	Natural	8.4	28.5	28.6	101-5693
Nylon 6.6	Black	8.4	28.5	28.6	101-5694
Glass Filled Flame Retardant Nylon 6.6	Black	8.4	28.5	28.6	101-5695
	Natural	8.4	28.5	28.6	101-5696

419733/436626

25 Per Pack Order Code	Price Per Pack
	1+ 3+
101-5693	67.18 60.45
101-5694	74.08 66.66
101-5695	78.35 70.50
101-5696	73.73 66.34

**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

Colour	Height (mm)	Length (mm)	Width (mm)	Hole Dia. (mm)	Mounting Method	Order Code
Natural	5.8	13	8	3.8	M3 Screw	101-5697
Black	5.8	13	8	3.8	M3 Screw	101-5698
Natural	7	16	10.8	4.5	M4 Screw	101-5699
Black	7	16	10.8	4.5	M4 Screw	101-5700
Natural	9.5	21.8	15.5	4.5	M4 Screw	101-5701
Black	9.5	21.8	15.5	4.5	M4 Screw	101-5702
Natural	9.5	21.8	15.5	5	M5 Screw	101-5703
Black	9.5	21.8	15.5	5	M5 Screw	101-5704
Natural	9.5	21.8	15.5	6.6	M6 Screw	101-5705
Black	9.5	21.8	15.5	6.6	M6 Screw	101-5706
Black	9.5	21.8	15.5	4.5	M4 Screw	101-5707

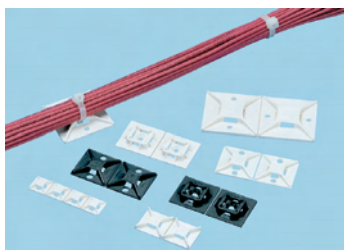
419735/436627

100 Per Pack Order Code	Price Per Pack
	1+ 3+
101-5697	19.53 17.58
101-5698	26.40 23.76
101-5699	30.01 26.98
101-5700	30.01 26.98
101-5701	30.01 26.98



100 Per Pack Order Code	Price Per Pack	1+	3+
101-5702	22.46	20.21	
101-5703	26.40	23.76	
101-5704	30.01	26.98	
101-5705	30.01	26.98	
101-5706	30.01	26.98	
101-5707	50.88	45.77	

4-Way Cable Tie Mount



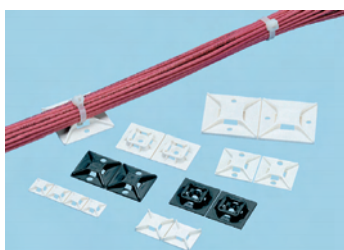
- Four-way cable tie entry for easy orientation of wires and cables
- These mounts are to be applied with an M3 screw

Material	Colour	Height (mm)	Length (mm)	Width (mm)	Order Code
Nylon 6.6	White	5.1	25.4	25.4	101-5691

419732/436623

100 Per Pack Order Code	Price Per Pack	1+	3+
101-5691	53.02	47.72	

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
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
Nylon 6.6	Natural	6.4	38.1	38.1	513	Rubber	101-5676
Nylon 6.6	Black	6.4	38.1	38.1	513	Rubber	101-5677
Nylon 6.6	Natural	6.4	38.1	38.1	513	Acrylic	101-5678
Nylon 6.6	Natural	6.4	50.8	50.8	907	Rubber	101-5681
Nylon 6.6	Natural	6.4	50.8	50.8	907	Acrylic	101-5682

419722/436619

100 Per Pack Order Code	Price Per Pack	1+	3+
101-5665	23.18	20.86	
101-5666	53.61	48.24	
101-5668	26.53	23.89	
25 Per Pack 101-5669	13.28	11.95	
100 Per Pack 101-5670	71.74	64.58	
101-5671	82.51	74.28	
101-5672	29.85	26.85	
101-5673	31.57	28.42	
101-5674	94.92	85.44	
101-5675	101.65	91.50	
50 Per Pack 101-5676	69.79	62.82	
101-5677	73.47	67.89	
101-5678	76.20	68.58	
101-5681	103.28	92.96	
101-5682	104.00	93.58	

Adhesive Backed Hook & Loop Cable Tie Mounts



- Adhesive backing allows routing of wires and cables where mounting holes cannot be drilled
- Tear tab provides fast and easy liner removal to speed installation
- For indoor use
- Rubber adhesive

Colour	Height (mm)	Length (mm)	Width (mm)	Max. Static Load (g)	Order Code
Natural	8.4	28.5	28.6	172	101-5663
Black	8.4	28.5	28.6	172	101-5664

419713/436618

25 Per Pack Order Code	Price Per Pack	1+	3+
101-5663	71.22	64.12	
101-5664	75.09	67.57	

Standard Cable Ties



- Versatile fasteners can be used in countless applications, wherever you need to bundle wire, cable or hoses
- Bent tip design making them easy to pick up and install
- One-piece non-releasable cable ties moulded in Nylon 6.6



Length	Width	Maximum Bundle Dia.	Tensile Strength (lbs)	(kg)
190mm	4.8mm	47mm	50	22.6

385696/438873

100 Per Pack Colour	Order Code	Price Per Pack	1+	5+
Brown	117-9902	18.46	17.54	
Red	117-9903	18.46	17.54	
Orange	117-9904	18.46	17.54	
Yellow	117-9905	18.46	17.54	
Green	117-9906	18.46	17.54	
Blue	117-9907	18.46	17.54	
Purple	117-9908	18.46	17.54	
Grey	117-9909	18.46	17.54	
White	117-9910	18.46	17.54	

Multiple Loop Cable Ties



- A fast and economical method to secure a harness and mount it to another harness cabinet or other convenient mounting point
- One-piece design and bent tip provides faster orientation
- Installs easily by hand
- Ideal for under hood hose and harness routing



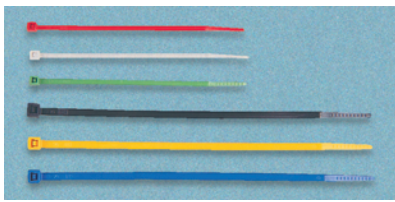
Length	Width	Maximum Bundle Dia.	Tensile Strength (lbs)	(kg)
190mm	4.8mm	46mm	50	22.6
300mm	4.8mm	76mm	50	22.6
375mm	4.8mm	104mm	50	22.6

385709/438327

100 Per Pack Size	Colour	Order Code	Price Per Pack	1+	5+
190 x 4.8mm	Natural	117-9911	10.94	10.32	
300 x 4.8mm	Natural	117-9912	11.91	11.10	
375 x 4.8mm	Natural	117-9914	16.21	15.59	

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.

Standard 'T' Ties



- 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**.

Mfrs. List No.	Length	Width	Maximum Bundle Dia.	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	4.6	81	50	22.7
T50L+colour	385	4.8	109	50	22.7
T120L+colour	300	7.6	75	120	54.4
T120R+colour	390	7.6	108	120	54.4
T120M+colour	465	7.6	130	120	54.4

224071

100 Per Pack		Price Per Pack				
Mfrs. List No.	Colour	Order Code	1+	5+	10+	50+
<b>2.5mm Width</b>						
T18R-NAT(100 PACK)	Natural	116-8935	6.78	6.17	5.80	5.48
T18R-BLK(100 PACK)	Black	116-8943	8.36	7.53	6.30	5.48
T18R-RED(100 PACK)	Red	116-8967	8.85	7.62	6.96	6.24
T18R-BLUE(100 PACK)	Blue	116-8970	8.85	7.62	6.96	6.24
T18R-GREEN(100 PACK)	Green	116-8973	8.85	7.62	6.96	6.24
T18R-YELLOW(100 PACK)	Yellow	116-8977	8.85	7.62	6.96	6.24
T18I-NAT(100 PACK)	Natural	116-9078	8.57	7.91	7.40	6.52
T18I-BLK(100 PACK)	Black	116-9080	8.57	7.91	7.40	6.52
T18L-NAT(100 PACK)	Natural	116-9081	15.33	14.36	13.39	11.81
T18L-BLK(100 PACK)	Black	116-9082	15.04	13.86	12.92	11.40
<b>3.5mm Width</b>						
T30R-NAT(100 PACK)	Natural	116-8936	8.02	7.34	7.18	7.09
T30R-BLK(100 PACK)	Black	116-8944	9.48	8.60	7.91	6.87
T30R-RED(100 PACK)	Red	116-8968	11.11	10.30	9.42	8.10
T30R-BLUE(100 PACK)	Blue	116-8971	11.11	10.30	9.42	8.10
T30R-GREEN(100 PACK)	Green	116-8974	11.11	10.30	9.42	8.10
T30R-YELLOW(100 PACK)	Yellow	116-8978	11.11	10.30	9.42	8.10
T30L-NAT(100 PACK)	Natural	116-9083	16.77	15.69	14.65	12.88
T30L-BLK(100 PACK)	Black	116-9084	16.77	15.69	14.65	12.88
T30LL-NAT(100 PACK)	Natural	116-8938	22.11	20.51	20.38	20.29
T30LL-BLK(100PACK)	Black	116-8946	28.70	25.96	23.25	20.29
<b>4.8mm Width</b>						
T50S-NAT(100 PACK)	Natural	116-9085	10.18	9.54	8.91	7.84
T50S-BLK(100 PACK)	Black	116-9086	10.18	9.54	8.91	7.84
T50R-NAT(100 PACK)	Natural	116-8937	10.68	10.11	9.89	9.39
T50R-BLK(100 PACK)	Black	116-8945	12.84	12.03	10.80	9.39
T50R-RED(100 PACK)	Red	116-8969	13.57	13.07	11.53	10.30
T50R-BLUE(100 PACK)	Blue	116-8972	13.57	13.07	11.53	10.30
T50R-GREEN(100 PACK)	Green	116-8975	13.57	13.07	11.53	10.30
T50R-YELLOW(100 PACK)	Yellow	116-8979	13.57	13.07	11.53	10.30
T50I-NAT(100 PACK)	Natural	116-9088	20.86	19.31	17.73	15.47
T50I-BLK(100 PACK)	Black	116-9089	20.86	19.31	17.73	15.47
T50L-NAT(100 PACK)	Natural	116-8941	22.47	20.66	18.40	17.48
T50L-BLK(100 PACK)	Black	116-9090	24.26	21.92	19.18	16.85
<b>7.6mm Width</b>						
T120I-NAT(100 PACK)	Natural	116-9091	38.56	34.87	31.53	27.50
T120I-BLK(100 PACK)	Black	116-9092	38.56	34.87	31.53	27.50
T120R-NAT(100 PACK)	Natural	116-8942	32.59	29.86	28.92	27.47
T120R-BLK(100 PACK)	Black	116-8947	39.11	35.22	31.56	27.47
T120M-NAT(100 PACK)	Natural	116-9093	61.46	55.75	50.24	44.35
T120M-BLK(100 PACK)	Black	116-9094	61.46	55.75	50.24	44.35
<b>1000 Per Pack</b>						
T18R-NAT(1000 PACK)	Natural	116-8963	41.80	35.78	31.56	27.15
T18R-BLK(1000 PACK)	Black	116-9095	41.80	35.78	31.56	27.15
T30R-NAT(1000 PACK)	Natural	116-8965	46.39	41.77	37.39	32.60
T30R-BLK(1000)PACK	Black	116-9096	45.50	40.23	36.00	31.41

Barb Clamp Ties



- Used to secure a bundle of wires to another surface such as a control panel, wall or ceiling
- The design allows for bundling before or after screwing clamp in place
- Stainless steel barb provides consistent performance, reliability and infinite adjustability through entire bundle range
- High strength and low thread force
- Ribbed and studded strap body helps prevent axial and lateral movement

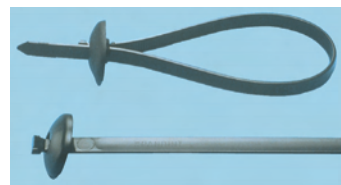


	Length (mm)	Width (mm)	Max. Bundle Dia.(mm)	Min. Loop Tensile Str.(N)	Nominal Hole Dia. (mm)	Order Code
Standard	216	4.7	51	222	5.1	101-5545
Standard	396	4.7	102	222	5.1	101-5546
Light-Heavy	394	7	102	534	6.6	101-5547
Standard Weather	216	4.7	51	222	5.1	101-5548
Standard Resistant	396	4.7	102	222	5.1	101-5549
Light-Heavy Nylon 6.6	394	7	102	534	6.6	101-5550

419681/436604

100 Per Pack Order Code	Price Per Pack	1+	3+
101-5545	64.84		58.33
101-5546	146.38		131.76
101-5547	119.30		107.38
101-5548	74.57		67.12
101-5549	168.38		151.55
101-5550	137.43		123.69

Chassis/Panel Mount Tie



- Unique design of tie allows it to secure a bundle directly to a chassis or panel without the need for separate fasteners or mounting devices thus reducing costs
- Ties install into pre-drilled hole, go around bundle, then back out the same hole
- Weather resistant, heat stabilized, Nylon 6.6 material

	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Min. Loop Tensile Str. (N)	Order Code
Without Pilot	257	7.6	70	534	101-5532
Without Pilot	376	7.6	102	534	101-5533
With Pilot	257	7.6	70	534	101-5534
With Pilot	376	7.6	102	534	101-5535

419678/436600

50 Per Pack Order Code	Price Per Pack	1+	3+
101-5532	70.89		63.83
101-5533	95.34		85.80
101-5534	111.84		100.64
101-5535	111.84		100.64

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	Width	Max Bundle Dia.	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
390	7.6	108	120	54.4	T120RV0(100 PACK)	116-9067

208097

100 Per Pack L	W	Max. Dia.	Order Code	Price Per Pack	1+	5+	10+	25+	+
100	2.5	16	116-9064	11.66	11.02	10.43	8.95	--	--
150	3.5	35	116-9065	24.14	23.03	21.74	18.77	--	--
200	4.8	50	116-9066	43.96	42.02	39.63	34.34	--	--
390	7.6	108	116-9067	137.49	128.83	121.46	104.99	--	--

'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	Width	Maximum Bundle Dia.	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		Price Per Pack				
Mfrs. List No.	Colour	Order Code	1+	5+	10+	25+
LK2A-NAT	Natural	116-8955	22.27	20.88	18.65	15.91
LK2A-BLACK	Black	116-8980	22.27	20.88	18.65	15.91
LK5-NAT	Natural	116-9097	77.84	74.31	70.06	60.54
LK5-BLK	Black	116-9098	77.84	74.31	70.06	60.54
T150M-NAT	Natural	116-9100	72.65	68.07	64.17	55.50
T150M-BLK	Black	116-9101	74.07	70.65	66.59	57.61
T250X-BLK	Black	116-9102	76.60	73.02	68.83	59.47

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	Width	Maximum Bundle Dia.	Tensile Strength	
				(lbs)	(kg)
T18I-W	145	2.5	36	18	8.1
T18R-W	100	2.5	22	18	8.1
T30L-W	200	3.5	49	30	13.6
T30R-W	130	3.5	35	30	13.6
T40R-W	180	4.0	42	40	18.1
T40L-W	260	3.3	65	40	18.1
T50S-W	150	4.6	36	50	22.7
T80R-W	205	4.7	50	80	36.2
T80L-W	390	4.7	108	80	36.2
T11-12130	390	7.6	108	120	54.4
T150R-W	360	7.6	100	150	68
LK5-W	540	13.2	152	250	113.4

208349

100 Per Pack		Price Per Pack			
Mfrs. List No.	Order Code	1+	5+	10+	50+
T18I-W	851-759	8.16	7.34	6.74	6.21
T18R-W	851-723	5.01	4.50	4.16	3.84
T30L-W	842-310	12.79	11.53	10.55	10.09
T30R-W	851-772	9.04	8.22	7.53	7.13
T40R-W	842-321	11.76	10.58	9.70	8.98
T40L-W	842-333	20.88	18.81	17.23	15.91
T50S-W	851-875	12.34	11.09	10.17	9.39
T80R-W	851-826	11.95	11.19	--	--
T80L-W	851-851	32.58	29.33	26.87	25.58
T11-12130	851-905	48.77	48.03	--	--
T150R-W	842-357	43.38	39.03	35.78	33.04
50 Per Pack		Price Per Pack			
LK5-W	851-930	91.57	82.44	75.57	72.68

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)

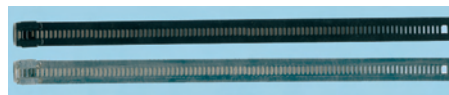
Mfrs. List No.	Length	Width	Maximum Bundle Dia.	Tensile Strength	
				(lbs)	(kg)
T18I-HS	144	2.5	36	18	8.1
T18R-HS	102	2.5	22	18	8.1
T18L-HS	200	2.5	49	18	8.1
T30R-HS	150	3.6	35	30	13.6
T50S-HS	151	4.8	36	50	22.7
T40R-HS	179	4	42	40	18.1
T30L-HS	200	3.6	49	30	13.6
T40L-HS	260	3.3	65	40	18.1
T80R-HS	204	4.7	50	80	36.2
T120R-HS	387	7.6	108	120	54.4
T150R-HS	360	7.5	100	150	68
T50I-HS	302	4.8	81	50	22.7
T80L-HS	389	4.8	108	80	36.2
LK5-HS	540	13	152	250	113.4

208350

100 Per Pack		Price Per Pack			
Mfrs. List No.	Order Code	1+	5+	10+	50+
T18I-HS	851-747	10.37	8.82	7.69	6.29
T18R-HS	851-711	10.37	8.82	7.69	6.14
T18L-HS	851-735	11.79	10.05	8.88	7.09
T30R-HS	851-760	10.70	9.07	7.94	6.39
T50S-HS	851-863	16.61	14.08	12.38	9.89
T40R-HS	851-796	16.87	14.36	12.57	10.27

100 Per Pack	Price Per Pack				
Mfrs. List No.	Order Code	1+	5+	10+	50+
T30L-HS	851-784	16.07	13.42	11.78	9.45
T40L-HS	851-802	29.14	24.79	21.67	17.93
T80R-HS	851-814	16.45	13.95	12.03	9.67
T120R-HS	851-899	65.13	55.35	48.35	42.25
T150R-HS	851-917	71.65	60.73	53.20	42.43
T50L-HS	851-838	29.14	24.79	21.67	20.46
T80L-HS	851-840	34.73	29.07	25.48	19.97
LK5-HS	851-929	142.21	134.15	--	--

Ladder Ties



Stainless steel 316 cable ties, supplied either coated or uncoated. The coated cable ties have an electrostatically applied black epoxy finish, making them extremely resistant to corrosion. The construction of these ties gives them greater flexibility than the standard type.

**NEW**

- Self-locking for easy application
- Supplied in packs of 100

Operating temperature		-80°C to +538°C Uncoated		-80°C to +150°C Coated	
Length	Width	Min. Tensile Strength (kg)	Max. Bundle Dia.	Uncoated Order Code	Coated Order Code
100	7	44.5		981-3675	981-3829
200	7	44.5	50	981-3683	981-3837
225	7	44.5	60	981-3691	981-3845
300	7	44.5	80	981-3705	981-3853
360	7	44.5	105	981-3713	981-3861
450	7	44.5	115	981-3721	981-3870
610	7	44.5	150	981-3730	981-3888
750	7	44.5	200	981-3748	981-3896
150	12	113.6		981-3756	981-3900
225	12	113.6	60	981-3764	981-3918
300	12	113.6	80	981-3772	981-3926
360	12	113.6	105	981-3780	981-3934
450	12	113.6	115	981-3789	981-3942
610	12	113.6	150	981-3802	981-3950
750	12	113.6	200	981-3810	981-3969

416720

100 Per Pack		Price Per Pack			
Length (mm)	Width (mm)	Max. Dia. (mm)	Order Code	1+	3+
<b>Uncoated</b>					
100	7		981-3675	30.76	30.23
200	7	50	981-3683	47.82	46.97
225	7	60	981-3691	57.58	55.17
300	7	80	981-3705	68.45	66.24
360	7	105	981-3713	75.03	71.02
450	7	115	981-3721	96.19	94.39
610	7	150	981-3730	137.39	128.83
750	7	200	981-3748	154.65	147.87
150	12		981-3756	80.45	--
225	12	60	981-3764	96.72	--
300	12	80	981-3772	113.93	--
360	12	105	981-3780	127.11	126.94
450	12	115	981-3789	164.61	--
610	12	150	981-3802	218.55	--
750	12	200	981-3810	261.80	--
<b>Coated ( Black )</b>					
100	7		981-3829	41.39	--
200	7	50	981-3837	64.17	--
225	7	60	981-3845	68.52	60.58
300	7	80	981-3853	87.42	--
360	7	105	981-3861	94.86	--
450	7	115	981-3870	128.81	--
610	7	150	981-3888	175.31	--
750	7	200	981-3896	201.35	--
150	12		981-3900	109.74	--
225	12	60	981-3918	131.60	--
300	12	80	981-3926	155.31	--
360	12	105	981-3934	180.91	172.98
450	12	115	981-3942	224.13	--
610	12	150	981-3950	297.60	--
750	12	200	981-3969	356.19	--

**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

Mfrs. List No.	Length	Width	Maximum Bundle Dia.	Tensile Strength (lbs)	Tensile Strength (kg)
MAT8SS7	230	7	60	100	45
MAT12SS7	330	7	90	100	45
MAT16SS7	430	7	120	100	45
MAT24SS7	630	7	180	100	45
MAT8SS12	230	12	60	150	68
MAT12SS12	330	12	90	150	68
MAT16SS12	430	12	120	150	68
MAT24SS12	630	11.7	180	150	68

FOR SUITABLE INSTALLATION TOOL SEE ORDER CODE 330-8613

208348

Mfrs. List No.	Order Code	1+	20+	50+	100+
MAT8SS7	841-985	2.44	--	--	--
MAT12SS7	841-997	2.70	--	--	--
MAT16SS7	842-000	2.99	2.84	2.49	2.27
MAT24SS7	842-011	3.43	3.02	2.74	2.61
MAT8SS12	842-023	2.64	2.51	--	--
MAT12SS12	842-035	3.42	--	--	--
MAT16SS12	842-047	3.76	3.46	3.31	3.02
MAT24SS12	842-059	4.08	3.65	3.63	--

**MAT Stainless Steel Ties**



**Ladder Locking Mechanism**



- Non-releasable cable ties manufactured from marine grade 316 stainless steel coated in thermoplastic polyester
- Incorporates a ladder locking mechanism making the tie easy to install
- Tough and corrosion resistant
- Lightweight and easy to handle

Coating Operating temperature -40°C to +70°C  
Tie operating temperature -80°C to +538°C

Length	Width	Maximum Bundle Dia.	Mfrs. List No.	Order Code
230	7	60	MAT8SSC7	116-9006
330	7	90	MAT12SSC7	116-9007
630	7	180	MAT24SSC7	116-9008
330	12	90	MAT12SSC12	330-8509

FOR SUITABLE INSTALLATION TOOL SEE ORDER CODE 330-8613

227240

Mfrs. List No.	Order Code	1+	5+	10+	25+
MAT8SSC7	116-9006	196.47	178.13	168.90	158.98
MAT12SSC7	116-9007	207.11	183.83	174.04	164.05
MAT24SSC7	116-9008	274.60	241.01	229.19	215.08
MAT12SSC12	330-8509	239.67	213.38	200.34	190.35

**Releasable Cable Ties**



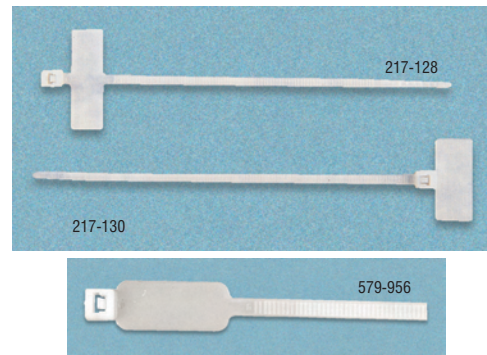
- Releasable cable ties moulded in Natural or Black Nylon 66
- Ideally suited to prototype work or installations where cable looms are constantly being added to or modified

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	Max. Dia.	Order Code	1+	5+	10+	25+	+		
<b>Natural</b>	100	6.5	23	116-9074	11.00	9.80	8.88	7.88	--
	140	7.5	35	116-9076	13.92	13.42	12.51	10.46	--
	250	7.5	68	116-9077	17.72	17.20	16.00	13.32	--
<b>Black</b>	100	6.5	21	116-8948	11.00	9.80	8.88	7.88	--
	140	7.5	35	116-8949	12.64	12.19	11.56	10.46	--
	250	7.5	68	116-8950	16.12	15.62	14.80	13.32	--

**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.	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	IT18L-NAT(100 PACK)	116-8984
200	4.6	27 x 12.5mm	50	IT50R-NAT(100 PACK)	116-9043

FOR SUITABLE MARKER PEN SEE ORDER CODE 217-281

219615

100 Per Pack	Max. Dia.	Price Per Pack	1+	5+	10+	25+	+	
L	W							
100	2.3	16	116-8983	21.23	19.97	17.96	15.15	--
110	2.3	16	116-8984	25.26	24.03	21.61	18.14	--
200	4.6	50	116-9043	28.54	27.15	25.11	21.70	--

**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	Tie Width Accommodation	Mounting Self-Adhesive or Screw	Mfrs. List No.	Order Code Natural	Order Code 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
28.0 x 28.0	2.5 - 5.5	2 x 3 dia.	MB4A	116-8953	116-9046

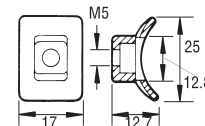
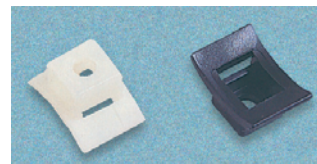
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50 Per Pack	Base Size	Order Code	1+	5+	10+	25+	+
<b>Natural</b>	13 x 13	116-8981	11.96	11.81	11.50	10.49	--
	19 x 19	116-8951	14.15	13.99	13.77	13.26	--
	28.0 x 28.0	116-8953	15.56	15.53	15.21	14.71	--
<b>Black</b>	13 x 13	116-9044	12.41	11.91	11.34	9.89	--
	19 x 19	116-9045	14.77	14.27	13.64	11.72	--
	28.5 x 28.5	116-9046	15.88	15.06	14.21	12.66	--

**Cable Tie Mounting Saddles**



**Natural and Black**



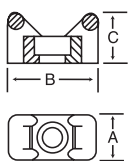
- Natural or Black Nylon cable tie mounting saddles accepting cable ties up to 9.4mm wide
- Suitable for fixing bunched cables or plastic/metal conduit

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

224076

100 Per Pack	Order Code	1+	5+	10+	25+	+
Natural	116-8956	18.46	15.91	13.70	11.43	--
Black	116-8966	18.46	15.91	13.70	11.43	--

**Cable Tie Mounts**



- 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			Max Tie	Fixing	Mftrs.	Order Code	
A	B	C	Width		List No.	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	Price Per Pack				
	1+	5+	10+	25+	+
<b>Natural</b>					
116-9047	32.79	31.56	28.98	25.61	--
116-9048	41.08	39.25	36.19	32.04	--
<b>Black</b>					
116-9011	28.63	27.63	26.33	22.90	--
116-9012	31.84	30.56	29.14	25.23	--

**Harness Tie Mount**



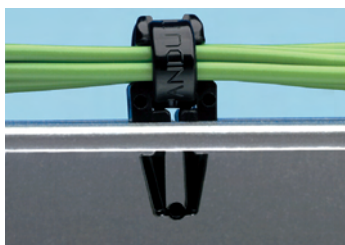
- Harness Tie Mounts are designed to be attached to the wire harness during assembly with 2 cable ties

Material	Height (mm)	Length (mm)	Width (mm)	Max. Panel Thickness (mm)	Panel Hole Dia. (mm)	Order Code
Nylon 6.6	16.5	39.1	9.4	4.1	6.2	101-4875
Heat Stabilised Nylon 6.6	16.5	39.1	9.4	4.1	6.2	101-4876
Nylon 6.6	18.3	39.1	9.4	5.8	6.2	101-4877
Heat Stabilised Nylon 6.6	18.3	39.1	9.4	5.8	6.2	101-4878
Nylon 6.6	11.7	39.1	9.4	6.4	6.2	101-4879
Heat Stabilised Nylon 6.6	11.7	39.1	9.4	6.4	6.2	101-4880

419591/436489

100 Per Pack Order Code	Price Per Pack		
	1+	5+	3+
101-4875	47.00		42.31
101-4876	51.72		46.55
101-4877	47.00		42.31
101-4878	51.72		46.55
101-4879	59.60		53.64
101-4880	59.60		53.64

**Push Button Tie Mounts**



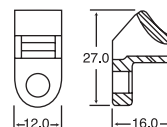
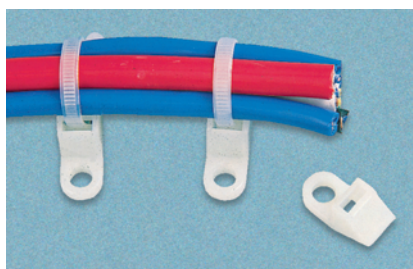
- Push mounts require no adhesive backing or additional mounting hardware
- Insert into pre-drilled holes
- Can be used where only one side of panel is accessible

Height (mm)	Length (mm)	Width (mm)	Max. Panel Thickness (mm)	Panel Hole Dia. (mm)	Order Code
10.4	11.4	4.1	3.2	6.4	101-4873
4.6	9.6	3.2	3.2	6.4	101-4874

419590/436487

100 Per Pack Order Code	Price Per Pack		
	1+	5+	3+
101-4873	77.05		69.33
101-4874	40.62		36.55

**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

Fixing M6 Material NYLON Mftrs. List No. LKM-NAT(100 PACK)

208089

100 Per Pack Mounting Cradle	Order Code	Price Per Pack				
		1+	5+	10+	25+	+
116-9056		16.94	16.16	15.15	13.17	--

**One Piece Fixing Ties**



These one-piece fixing ties offer the ideal combination of high specification materials and superior design to give the perfect solution for both bundling and installation of cables and hoses.

Long acknowledged as the market leader for innovative fixings, HellermannTyton, has now met some of the challenges set by the automotive, aviation, domestic appliance and electrical industries by combining the best of 'fixing design' with the best of 'cable tie design'.

**8722-218**

This fir-tree fixing tie provides a low insertion force with a high pull-out force. The outside serrations present a smooth surface to the cables preventing chafe and damage to the insulation whilst the unique head design allows the cable tie to firmly hold wires as small as 1.6mm diameter.

Order Code	L x W	Max. Bundle Diameter	Tensile Strength	Fixing hole from/to	Panel thickness from/to
872-2218	160 x 4.6mm	35mm	222N	6.5 - 7.0mm	0.75 - 3.0mm

**8722-226 (without seal)**

**8722-234 (with seal)**

This tie has an arrowhead design of fixing which offers a positive, low push-in force and a high pull-out force. When combined with the optional foam rubber seal it offers additional protection against the ingress of moisture or dirt.

Order Code	L x W	Max. Bundle Diameter	Tensile Strength	Fixing hole from/to	Panel thickness from/to
872-2226	160 x 4.6mm	35mm	222N	6.3 - 6.7mm	0.6 - 1.8mm
872-2234	160 x 4.6mm	35mm	222N	6.3 - 6.7mm	0.6 - 1.8mm

**8722-242**

Offering the opportunity to retain both insulation material and cable bundles with one product this cable tie has a simple 'soft-push' mechanism which allows it to be installed onto a weld stud without the use of any tools. The unique head design allows the cable tie to firmly hold as small as 1.6mm diameter.

Order Code	L x W	Max. Bundle Diameter	Tensile Strength	Fixing hole
872-2242	165 x 4.6mm	35mm	222N	5.0mm

**8722-250**

Offering the 'soft-push' technology, this inside serrated tie is mounted on the top of the stud. The additional height gained by this design gives a clear 'stand-off' from the panel.

Order Code	L x W	Max. Bundle Diameter	Tensile Strength	Weld stud
872-2250	160 x 4.6mm	35mm	222N	5.0mm

**8722-269 & 8722-277**

The special oval shape of the fixing provides a 5-6mm lateral adjustment to cater for any misalignment of the stud or incorrect positioning of the tie on the cables. The simple 'soft-push' mechanism allows it to be installed onto a weld stud without the use of any tool.

Order Code	L x W	Max. Bundle Diameter	Tensile Strength	Welded stud
872-2269	160 x 4.6mm	35mm	222N	5.0mm
872-2277	160 x 4.6mm	35mm	222N	6.0mm

**8722-285**

Providing an especially strong fixing method, the design of the tie offers the 'soft-push' mounting technology with the ability to mount the cables very close to the fixing stud. The outside serration present a smooth surface to the cables preventing chafe and damage to the insulation.

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.



Order Code	L x W	Max. Bundle Diameter	Tensile Strength	Fixing hole
872-2285	160 x 4.6mm	35mm	222N	5.0mm

**8722-293**

The special shape of the fixing provides a 5-6mm lateral adjustment to cater for any misalignment of the stud or incorrect positioning of the tie on the cables, whilst the low profile of the fixing allows for several ties to be installed one-on-top of the other (on the same stud) to accommodate different cable routings.

Order Code	L x W	Max. Bundle Diameter	Bundle Strength	Tensile
872-2293	163 x 4.6mm	35mm	222N	5.0mm

**8722-307**

This simple to use inside serrated tie provides the opportunity to attach an additional 5mm wire or hose to an existing harness. Offering the facility of a full 360° of rotation, the wire/hose can be orientated in any direction in relation to the main harness. Ideally suited for any application in which the wire or hose can move in relation to the fixing point.

Order Code	L x W	Max. Bundle Diameter	Bundle Strength	Tensile
872-2307	155 x 4.6mm	35mm	222N	4.5 - 5.2mm

386283

Mfrs. List No.	Order Code	1+	3+
T50SOSFT6E	872-2218▲	35.84	33.69
T50SOSFT6.5E	872-2226▲	30.40	28.51
T50SOSFT6.5E-MD	872-2234▲	56.64	54.78
T50SOSBH5E	872-2242▲	37.20	31.80
T50SBS50TE	872-2250▲	36.68	34.83
T50SOSB5-High-E	872-2269▲	36.68	34.83
T50SOSB6-High-E	872-2277▲	42.67	38.96
T50SOSBS5E	872-2285▲	37.20	34.99
T50SOSWSP5E	872-2293▲	36.49	35.32
T50SVC	872-2307▲	62.50	60.35

**Cable Tie Installation Tools**



- 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

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

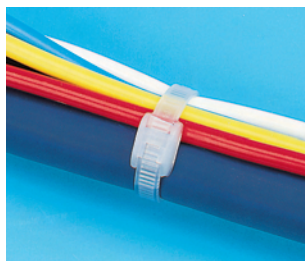
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	Tie Width	Order Code	1+	5+	10+
Plastic tool	2.5-4.8	151-306	35.97	34.62	31.77
Metal tool	2.5-4.8	235-544	377.85	362.82	--

**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

	Mfrs. List No.	Order Code	1+	5+	10+
Natural	SF100-18-100	121-2522●	5.79	5.23	4.69
	SF175-50-100	121-2523●	6.58	5.89	5.36
	SF200-18-100	121-2524●	14.94	13.26	12.06
Black	SF100-18X-100	121-2525●	6.10	5.48	4.98
	SF175-50X-100	121-2526●	6.91	6.21	5.64
	SF200-18X-100	121-2528●	16.41	--	--

**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=108

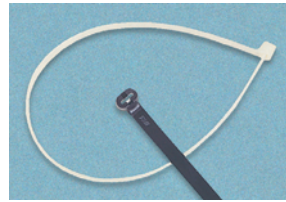
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500 Per Jar	Mfrs. List No.	Order Code	1+	10+	25+	50+	+
Natural	JTN-500	121-2480●	31.97	28.79	25.92	21.64	--
Black	JTB1-500	121-2481●	31.97	28.79	25.92	21.64	--

**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.	Length	Width	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

	Mfrs. List No.	Order Code	1+	3+	5+
Natural	TY523MR	123-0919●	19.34	17.58	15.97
	TY524MR	123-0921●	22.54	20.45	18.62
	TY525MR	123-0922●	28.27	25.65	23.30
	TY526MR	123-0923●	47.29	42.90	39.00
	TY527MR	123-0924●	108.46	98.45	89.47
	TY528MR	123-0925●	60.21	54.65	49.71
Black	TY523MXR	123-0926●	17.92	16.26	14.79
	TY524MXR	123-0927●	23.79	21.57	19.61
	TY525MXR	123-0928●	29.49	26.78	24.33
	TY526MXR	123-0929●	49.64	45.05	40.95
	TY527MXR	123-0930●	108.36	98.33	89.39
	TY528MR/MXR	123-0932●	66.89	60.71	55.18

224078

	Mfrs. List No.	Order Code	1+	10+	30+	50+	+
Natural	TYB23M	121-2482●	52.31	45.54	40.56	38.25	--
	TYB24M	121-2483●	77.21	66.99	59.83	58.13	--
	TYB25M	121-2484●	102.73	88.96	80.43	77.66	--
	TY26M	121-2486●	242.53	210.53	188.92	--	--
				1+	5+	10+	+
	TY27M	121-2487●	454.56	425.85	381.88	--	--
TY28M	121-2488●	271.63	256.14	229.12	--	--	
Black	TYB23MX	121-2489●	65.00	56.18	50.71	47.91	--
	TYB24MX	121-2490●	95.66	82.81	74.38	73.47	--
	TYB25MX	121-2491●	121.02	104.78	94.30	91.14	--
	TY26MX	121-2492●	250.08	216.49	195.01	183.35	--
				1+	5+	10+	+
	TY27MX	121-2493●	486.98	456.09	417.57	--	--
TY28MX	121-2494●	290.96	272.12	246.45	--	--	

**Cable Tie Mountings**



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



Tie Width	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

Mfrs. List No.	Order Code	10+	100+	500+
TC5347AR	121-2505	1.04	0.88	0.69
TC102	121-2506	0.28	0.22	0.19
TC104	121-2507	0.28	0.22	0.19
TC5141	121-2508	0.41	0.35	0.28

**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
Black	7.6 - 12.7	101-5661
Yellow	7.6 - 8.9	101-5662

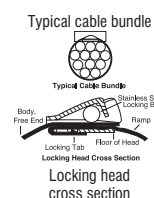
419707/436617

Order Code	1+	3+
101-5659	60.77	54.72
101-5660	69.07	62.17
101-5661	765.19	688.66
101-5662	114.06	102.66

**PAN-STEEL™ Stainless Steel Ties**



**Locking Ball Mechanism**



- Stainless steel **AISI 302/304** non-releasable ties
- Unique design allows easy threading, whilst providing high tensile strength
- Resistant to vibration, radiation, weathering, corrosion and extreme temperatures
- Conform to **MIL-S-23190** requirements
- Two lengths available in standard or heavy duty
- For suitable installation tools see below

Operating temperature -80°C to +538°C

Mfrs. List No.	Length	Width	Bundle Dia.	Tensile Strength (lbs)	Tensile Strength (kg)	Order Code
<b>Standard</b>						
MLT1S-CP	127	4.4	25	100	45	117-9866
MLT2S-CP	200	4.6	50	100	45	117-9874
MLT2.7S-CP	259	4.4	69	100	45	117-9867
MLT4S-CP	360	4.6	102	100	45	117-9875
MLT6S-CP	520	4.4	152	100	45	117-9869
MLT8S-CP	679	4.4	203	100	45	117-9870
MLT10S-CP	838	4.4	254	100	45	117-9872
<b>Heavy Duty</b>						
MLT2H-LP	200	7.9	50	250	113	117-9877
MLT2.7H-LP	259	7.9	69	250	113	352-1412
MLT4H-LP	360	7.9	102	250	113	117-9878
MLT6H-LP	521	7.9	152	250	113	117-9873
MLT8H-LP	679	7.9	203	250	113	352-1436
MLT10H-LP	838	7.9	254	250	113	352-1448

208092/438839

Mfrs. List No.	Order Code	1+	5+	10+
<b>Standard - 100 Per Pack</b>				
MLT1S-CP	117-9866	139.48	102.50	76.17
MLT2S-CP	117-9874	179.25	136.45	107.90
MLT2.7S-CP	117-9867	193.45	141.75	108.27
MLT4S-CP	117-9875	210.47	160.18	126.68

Mfrs. List No.	Order Code	1+	5+	10+
<b>Standard - 100 Per Pack</b>				
MLT6S-CP	117-9869	291.22	225.34	177.69
MLT8S-CP	117-9870	338.58	270.87	208.37
MLT10S-CP	117-9872	371.84	297.45	239.16
<b>Heavy Duty - 50 Per Pack</b>				
MLT2H-LP	117-9877	193.51	147.29	116.46
MLT2.7H-LP	352-1412	199.94	138.41	109.05
MLT4H-LP	117-9878	227.33	173.00	136.81
MLT6H-LP	117-9873	235.82	205.46	191.43
MLT8H-LP	352-1436	343.02	285.86	256.54
MLT10H-LP	352-1448	145.04	132.74	130.67

**Steel Ties Cushion Sleeving**



Black neoprene rubber sleeving for use with Pan-Steel™ ties. Provides extra grip on non-resilient object e.g. cable trays, pipework etc. Also provides additional electrical insulation and separation of different metals. Supplied on 100ft. (30.5m) reels in two sizes for use with standard or heavy duty ties.

Operating temperature -40°C to +90°C

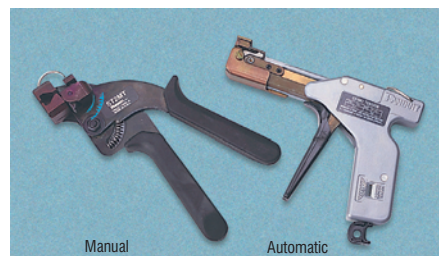
208085/438207

100 Ft. (30.5m) Reels	Tie Width	Mfrs. List No.	Order Code	1+	5+	10+
Standard	4.6	PCSS-B-CR	117-9880	638.29	464.69	358.44
Heavy duty	7.9	PCSH-B-CR	117-9881	782.14	569.39	439.24

**Installation Tools**



**Manual or 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

Type	Mfrs. List No.	Order Code	1+	10+
Manual	ST2MT	592-778	393.06	373.92
Automatic	GS4MT	592-780	1,081.54	--

**Re-Useable Twist Tie**



- Re-usable twist tie in Natural colour Nylon 66
- Flame retardant to **UL94V-2**
- Ideally suited for prototyping or for easy modification to wiring looms etc.

224083

100 Per Pack	Bundle Dia.	Order Code	1+	5+	10+	50+
	7-10	121-8019	6.58	5.91	5.58	5.10
	10-13	121-8020	8.84	8.43	7.74	6.54
	13-16.5	121-8021	9.88	8.82	8.37	7.53
	16.5-20	121-8022	13.19	12.27	11.31	9.36
	20-26	121-8023	14.87	12.96	12.21	10.89



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 0.75mm  
Breaking strain 4.5kg

W=45, Dia.=60

208310

25m Reel		Price Per Reel			
Colour	Order Code	1+	+	+	+
Black	305-8669	6.74	--	--	--

Lacing Cord



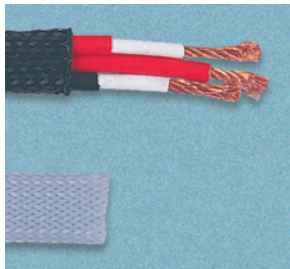
- Black PVC covered Nylon braided lacing cord
- Suitable for cable-forming and other similar applications

Operating temperature -40°C to +85°C  
Breaking strain 12kg  
Black

207971

500m Per Reel		Price Per Reel			
Colour	Order Code	1+	5+	10+	25+
Black	719-225	89.05	77.73	67.68	61.61

'Helagaine' Braided Sleeving



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.	Expanded Dia.	Coil Length	Grey Order Code	Black Order Code
3	5	25m	116-8905	116-8985
4	6.5	25m	116-8906	116-8986
6	9.5	25m	116-8907	116-8987
10	14	25m	116-8909	116-8989
14	18	10m	116-8910	116-8991
18	22	5m	116-8911	116-8992

224084

Nom. Dia.		Price Each			
Order Code	1+	5+	10+	25+	+
<b>Grey</b> 3 <b>116-8905</b>	27.35	25.11	22.18	17.14	--
4 <b>116-8906</b>	35.28	32.38	28.32	23.37	--
6 <b>116-8907</b>	53.79	49.05	42.90	34.93	--
10 <b>116-8909</b>	82.19	75.13	65.74	52.07	--
14 <b>116-8910</b>	44.95	41.52	36.13	28.92	--
18 <b>116-8911</b>	27.09	24.48	21.48	17.14	--
<b>Black</b> 3 <b>116-8985</b>	25.91	23.75	20.95	17.14	--
4 <b>116-8986</b>	35.28	32.38	28.32	23.37	--
6 <b>116-8987</b>	53.79	49.05	42.90	34.93	--
10 <b>116-8989</b>	82.19	75.13	65.74	52.07	--
14 <b>116-8991</b>	44.95	41.52	36.13	28.92	--
18 <b>116-8992</b>	27.09	24.48	21.48	17.14	--

'Terigaine' Braided Sleeving



- Similar to Helagaine sleeving above but with finer weave for greater bore expansion. Manufactured in flame retardant polyester PBTP with limiting oxygen index (L.O.I.) 29 and meets **CNET** requirements and **UL** recognised (**UL94V-0**)

Available in Grey with a distinctive Black tracer to differentiate from standard sleeving.

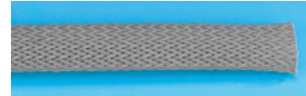
Operating temperature -50°C to +140°C (+150°C for short periods.)

Nominal Dia.	2	3	6	10	12	16
Expanded Dia.	4.5	6.5	12.5	18	20	24
Coil Length	25m	25m	25m	25m	10m	5m
Order Code	116-8993	116-8994	116-8995	116-8996	116-8998	116-8999

207977

Nom. Dia.		Price Each					
Order Code	1+	5+	10+	25+	+	+	
2 <b>116-8993</b>	31.85	28.63	24.41	18.46	--	--	
3 <b>116-8994</b>	43.02	38.93	33.33	25.26	--	--	
6 <b>116-8995</b>	60.67	54.87	46.87	35.25	--	--	
10 <b>116-8996</b>	91.37	82.44	70.56	52.07	--	--	
12 <b>116-8998</b>	51.86	46.84	40.04	30.27	--	--	
16 <b>116-8999</b>	31.06	27.88	23.78	18.11	--	--	

Polyester Expandable Braided Sleeving



- 0.22m monofilament
- High flexibility
- High abrasion and good chemical resistance
- 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
- Supplied on coils and reels

Operating temperature	-50°C to +150°C	Limiting oxygen index	34%
Nominal Dia.	Range of Use	Coil Length	Reel Length
10	7 to 15	100m	50m
12	8 to 17	50m	25m
15	10 to 21	50m	25m
25	18 to 32	25m	15m
30	20 to 40	25m	10m

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Coils		Price Per Coil					
Nom. Dia.	Coil Length	Order Code	1+	5+	10+	25+	+
<b>Grey</b> 5	100m	<b>322-3048</b>	97.92	84.84	75.42	58.11	--
6	100m	<b>322-3050</b>	118.02	102.27	90.90	62.94	--
8	100m	<b>322-3061</b>	134.64	116.64	103.68	71.79	--
10	100m	<b>322-3073</b>	157.38	136.35	121.20	83.91	--
12	50m	<b>322-3085</b>	91.80	79.53	70.68	48.93	--
15	50m	<b>322-3097</b>	116.28	100.74	89.55	61.98	--
20	25m	<b>322-3103</b>	67.32	58.32	51.84	35.91	--
25	25m	<b>322-3115</b>	79.56	68.94	61.26	42.42	--
30	25m	<b>322-3127</b>	98.35	85.23	75.75	52.44	--
<b>Black</b> 5	100m	<b>322-3139</b>	97.92	84.84	75.42	52.20	--
6	100m	<b>322-3140</b>	118.02	102.27	90.90	62.94	--
8	100m	<b>322-3152</b>	134.64	116.64	103.68	71.79	--
10	100m	<b>322-3164</b>	157.38	136.35	121.20	83.91	--
12	50m	<b>322-3176</b>	91.80	79.53	70.68	48.93	--
15	50m	<b>322-3188</b>	90.90	87.22	--	--	--
20	25m	<b>322-3190</b>	67.32	58.32	51.84	35.91	--
25	25m	<b>322-3206</b>	79.56	68.94	61.26	42.42	--
30	25m	<b>322-3218</b>	98.35	85.23	75.75	52.44	--
		Price Per Reel					
		Order Code	1+	5+	10+	25+	+
<b>Grey</b> 5	50m	<b>322-3220</b>	53.24	46.14	41.01	28.38	--
6	50m	<b>322-3231</b>	62.33	54.03	48.00	33.24	--
8	50m	<b>322-3243</b>	76.78	66.51	59.13	40.95	--
10	50m	<b>322-3255</b>	91.19	79.02	70.23	48.63	--
12	25m	<b>322-3267</b>	53.76	46.59	41.43	28.65	--
15	25m	<b>322-3279</b>	62.94	54.54	48.48	33.57	--
20	25m	<b>322-3280</b>	62.00	53.73	47.73	33.06	--
25	15m	<b>322-3292</b>	45.62	39.54	35.16	24.33	--
30	10m	<b>322-3309</b>	45.29	39.24	34.89	24.15	--
<b>Black</b> 5	50m	<b>322-3310</b>	53.24	46.14	41.01	28.38	--
6	50m	<b>322-3322</b>	62.33	54.03	48.00	33.24	--
8	50m	<b>322-3334</b>	76.78	66.51	59.13	40.95	--
10	50m	<b>322-3346</b>	91.19	79.02	70.23	48.63	--
12	25m	<b>322-3358</b>	53.76	46.59	41.43	28.65	--
15	25m	<b>322-3360</b>	62.94	54.54	48.48	33.57	--
20	25m	<b>322-3371</b>	62.00	53.73	47.73	33.06	--
25	15m	<b>322-3383</b>	45.62	39.54	35.16	24.33	--
30	10m	<b>322-3395</b>	45.29	39.24	34.89	24.15	--

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

3

Cable Accessories

Compliant  
Non-compliant  
Limited stock - RoHS replacement available  
**RoHS**



Operating temperature -50°C to +150°C		Limiting oxygen index 34%	
Norminal Dia.	Range of Use	Coil Length	Reel Length
¼" (6.4mm)	⅜" (3.2mm) to ⅝" (9.5mm)	100m	400m
⅝" (9.5mm)	¾" (4.8mm) to ⅞" (15.8mm)	50m	300m
½" (12.7mm)	¼" (6.4mm) to ¾" (19.1mm)	50m	300m
¾" (19.1mm)	½" (12.7mm) to 1¼" (32mm)	25m	200m
1¼" (32mm)	¾" (19.1mm) to 1½" (38.2mm)	25m	200m

Limiting oxygen index 34%	
Coil Length	Reel Length
100m	400m
50m	300m
50m	300m
25m	200m
25m	200m

208329

Norm. Dia.	Coil Length	Order Code	Price Per Coil				
			1+	5+	10+	25+	+
¼" (6.4mm)	100	322-3504	144.89	107.67	86.10	71.76	--
⅝" (9.5mm)	50	322-3516	92.29	78.36	68.58	45.69	--
½" (12.7mm)	50	322-3528	140.36	119.10	104.22	69.48	--
¾" (19.1mm)	25	322-3530	107.28	91.08	79.68	53.13	--
1¼" (32mm)	25	322-3541	139.02	103.26	82.59	68.85	--

Reels	Reel Length	Order Code	Price Per Reel				
			1+	5+	10+	25+	+
¼" (6.4mm)	400	322-3553	347.74	313.02	309.90	264.87	--
⅝" (9.5mm)	300	322-3565	369.37	329.19	299.25	253.23	--
½" (12.7mm)	300	322-3577	561.54	500.43	454.95	384.93	--
¾" (19.1mm)	200	322-3589	572.22	509.94	464.19	392.25	--
1¼" (32mm)	200	322-3590	672.10	605.01	554.58	510.66	--

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

Operating temperature -50°C to +150°C Limiting oxygen index 34.7%

Norminal Dia.	Range Of Use	Coil Length
⅝" (9.5mm)	¾" (4.8mm) to ⅞" (15.8mm)	50m
½" (12.7mm)	¼" (6.4mm) to ¾" (19.1mm)	50m
¾" (19.1mm)	½" (12.7mm) to 1¼" (32mm)	25m
1¼" (32mm)	¾" (19.1mm) to 1½" (38.2mm)	25m

208328

Norm. Dia.	Coil Length	Order Code	Price Per Coil				
			1+	5+	10+	25+	+
¼" (6.4)	100m	322-3401	171.02	148.17	131.70	91.17	--
⅝" (9.5)	50m	322-3413	117.93	102.21	90.84	62.88	--
½" (12.7)	50m	322-3425	167.35	144.99	128.88	89.22	--
¾" (19.1)	25m	322-3437	136.66	118.41	105.24	72.87	--
1¼" (32)	25m	322-3449	165.52	143.40	127.47	88.23	--

High Expansion Polyester Braided Sleeving



- 0.22mm monofilament
- High expansion
- Reduces inventory
- Easy installation over wire bundles
- Ideal for large termination or cable transitions
- High abrasion and good chemical resistance

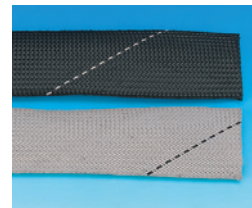
- Self extinguishing
- Passes flame resistant requirements of CEI 332-1 and FMVSS 302 (Type A) I2 according to NFF16-101
- Available in Black
- Supplied in coils

Operating temperature -50°C to +150°C Limiting oxygen index 33%

208325

Norm. Dia.	Range of Use	Coil Length	Order Code	Price Per Coil				
				1+	5+	10+	25+	+
6	4 to 12	100m	322-3607	122.77	103.86	93.18	62.07	--
12	7 to 21	100m	322-3619	183.97	155.82	136.65	101.78	--
20	10 to 30	100m	322-3620	262.27	227.79	202.02	139.83	--
30	20 to 60	50m	322-3632	190.12	162.33	142.05	94.68	--

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
- Supplies in coils

Operating temperature -50°C to +150°C Limiting oxygen index 34.7%

208327

Nom. Dia.	Range of Use	Coil Length	Order Code	Price Per Coil				
				1+	5+	10+	25+	+
<b>Grey</b>								
5	4 to 9	100m	322-3644	153.70	129.84	113.67	77.94	--
6	5 to 11	100m	322-3656	185.01	155.79	136.65	90.48	--
8	7 to 13	100m	322-3668	196.73	170.43	152.55	104.91	--
10	9 to 15	50m	322-3670	130.42	110.37	96.60	64.38	--
12	11 to 17	50m	322-3681	160.77	137.22	119.31	79.53	--
15	13 to 20	50m	322-3693	199.91	162.33	142.05	94.68	--
20	18 to 25	50m	322-3700	249.18	215.88	191.88	132.87	--
25	22 to 30	50m	322-3711	277.33	238.62	212.40	146.82	--
30	27 to 40	50m	322-3723	368.00	320.28	282.78	195.81	--
<b>Black</b>								
5	4 to 9	100m	322-3735	153.70	129.84	113.67	77.94	--
6	5 to 11	100m	322-3747	185.01	155.79	136.65	90.48	--
8	7 to 13	100m	322-3759	196.73	170.43	152.55	104.91	--
10	9 to 15	50m	322-3760	130.42	110.37	96.60	64.38	--
12	11 to 17	50m	322-3772	160.77	137.22	119.31	79.53	--
15	13 to 20	50m	322-3784	190.73	162.33	142.05	94.71	--
20	18 to 25	50m	322-3796	249.18	215.88	191.88	137.61	--
25	22 to 30	50m	322-3802	277.33	238.62	212.40	146.82	--
30	27 to 40	50m	322-3814	364.38	320.28	282.78	195.30	--

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%

208352

Nom. Dia.	Range of Use	Reel Length	Order Code	Price Per Reel				
				1+	5+	10+	25+	+
<b>Olive Drab</b>								
6	4 to 8	100m	322-4065	671.52	605.40	552.96	509.18	--
8	6 to 12	50m	322-4077	446.33	400.56	366.18	338.29	--
10	8 to 16	50m	322-4089	602.09	544.80	497.52	457.61	--
15	10 to 20	50m	322-4090	712.37	639.69	590.25	540.56	--
20	12 to 24	50m	322-4107	797.62	719.79	658.26	606.83	--
25	15 to 30	50m	322-4119	1,424.43	1,282.17	1,173.96	1,081.12	--
30	20 to 40	50m	322-4120	1,617.52	1,514.40	1,426.56	1,353.15	--
<b>Ivory</b>								
6	4 to 8	100m	322-4132	671.52	605.40	552.96	509.18	--
8	6 to 12	50m	322-4144	446.33	400.56	366.18	338.29	--
10	8 to 16	50m	322-4156	602.09	544.80	497.52	456.86	--
15	10 to 20	50m	322-4168	712.37	639.69	590.25	540.56	--
25	15 to 30	50m	322-4181	1,424.43	1,282.17	1,173.96	1,081.12	--
30	20 to 40	50m	322-4193	1,617.52	1,514.40	1,426.56	1,353.15	--

Polyamide 6.6 Sleeving



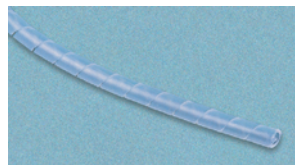
- 0.25mm monofilament
- Self extinguishing
- Wide temperature range
- High abrasion and good chemical resistance
- Halogen free
- Passes flame resistance requirements of CEI 332-1, FMVSS 302 and FAR25-853
- Available in Grey and Black
- Supplied in coils

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

208351

Nom. Dia.	Range of Use	Coil Length	Order Code	Price Per Coil				
				1+	5+	10+	25+	+
<b>Grey</b>								
5	3 to 7	100m	<b>322-3826</b>	106.34	94.44	79.20	56.04	--
6	4 to 8	100m	<b>322-3838</b>	117.78	102.27	90.90	62.88	--
8	5 to 10	100m	<b>322-3840</b>	146.02	125.73	110.55	78.09	--
10	7 to 12	50m	<b>322-3851</b>	99.24	86.97	74.91	54.18	--
12	8 to 14	50m	<b>322-3863</b>	111.75	96.72	86.37	59.97	--
14	10 to 16	50m	<b>322-3875</b>	132.04	113.49	102.12	69.75	--
16	12 to 18	50m	<b>322-3887</b>	158.26	136.35	122.40	83.91	--
18	13 to 21	50m	<b>322-3899</b>	172.13	151.08	137.04	104.88	--
20	15 to 23	50m	<b>322-3905</b>	172.13	151.08	137.04	104.88	--
22	17 to 26	50m	<b>322-3917</b>	203.12	176.73	159.06	122.34	--
25	18 to 28	50m	<b>322-3929</b>	214.20	186.84	168.30	129.36	--
30	25 to 32	50m	<b>322-3930</b>	252.45	222.06	200.55	153.84	--
<b>Black</b>								
5	3 to 7	100m	<b>322-3942</b>	106.34	94.44	79.20	56.04	--
6	4 to 8	100m	<b>322-3954</b>	117.78	102.27	90.90	62.88	--
8	5 to 10	100m	<b>322-3966</b>	146.02	125.73	110.55	78.09	--
10	7 to 12	50m	<b>322-3978</b>	99.24	86.97	74.91	54.18	--
12	8 to 14	50m	<b>322-3980</b>	111.75	96.72	86.37	59.97	--
14	10 to 16	50m	<b>322-3991</b>	132.04	113.49	102.12	69.75	--
16	12 to 18	50m	<b>322-4004</b>	158.26	136.35	122.40	83.91	--
18	13 to 21	50m	<b>322-4016</b>	172.13	151.08	137.04	104.88	--
20	15 to 23	50m	<b>322-4028</b>	172.13	151.08	137.04	104.88	--
22	17 to 26	50m	<b>322-4030</b>	203.12	176.73	159.06	122.34	--
25	18 to 28	50m	<b>322-4041</b>	214.20	186.84	168.30	129.36	--
30	25 to 32	50m	<b>322-4053</b>	252.45	222.06	200.55	153.84	--

**Spiral Wrapping**



- Mechanical and Electrical Protection
- Easy application
- Excellent binding rigidity
- Available in Natural or Black



208165

10m Coil	External Dia.	Bundle dia.	Order Code	Price Per Coil		
				1+	5+	10+
<b>Natural</b>						
6	10-50		<b>698-313</b>	5.20	4.92	4.74
10	20-60		<b>698-325</b>	8.94	8.40	7.86
15	20-70		<b>698-337</b>	18.85	17.67	16.35
19	25-100		<b>698-349</b>	21.39	20.07	19.08
24	30-130		<b>698-350</b>	22.28	21.24	20.64
<b>Black</b>						
6	10-50		<b>698-362</b>	5.20	4.92	4.74
10	20-60		<b>698-374</b>	8.94	8.40	7.86
15	20-70		<b>698-386</b>	18.85	17.67	16.35
19	25-100		<b>698-398</b>	19.43	18.24	17.67
24	30-130		<b>698-404</b>	24.51	23.37	22.26

**Coloured Spiral Wrap**



- Allows breakouts of single/multiple wires and re-routing 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 30m lengths

Colour	Order Code	Price Per Pack	
		1+	3+
Natural	<b>117-9915</b>	73.30	69.75
Brown	<b>117-9916</b>	80.46	76.56
White	<b>117-9917</b>	80.46	76.56
Pink	<b>117-9918</b>	80.46	76.56
Red	<b>117-9919</b>	80.46	76.56
Orange	<b>117-9920</b>	80.46	76.56
Yellow	<b>117-9921</b>	80.46	76.56
Green	<b>117-9922</b>	80.46	76.56
Blue	<b>117-9923</b>	80.46	76.56
Purple	<b>117-9924</b>	80.46	76.56
Grey	<b>117-9926</b>	80.46	76.56

**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.

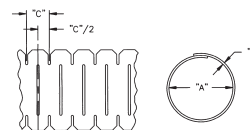
Operating temperature -50°C to +70°C

224085

Coil Length	External Dia.	Mfrs. List No.	Order Code	Price Per Coil				
				1+	5+	10+	25+	+
<b>Grade 'U'</b>								
50m	3mm	0201	<b>302-971</b>	28.15	26.15	25.26	23.53	--
50m	6mm	0205	<b>302-983</b>	43.44	40.95	38.56	36.70	--
25m	12mm	0209	<b>302-995</b>	51.28	45.86	44.86	43.99	--
<b>Grade 'O'</b>								
50m	3mm	0200	<b>303-008</b>	32.52	29.92	27.59	25.77	--
50m	6mm	0204	<b>303-010</b>	46.53	43.03	39.28	37.01	--
25m	12mm	0208	<b>303-021</b>	58.13	53.74	48.89	45.99	--
<b>Grade 'R'</b>								
50m	3mm	0202	<b>303-033</b>	40.01	37.04	33.89	31.66	--
50m	6mm	0206	<b>303-045</b>	61.47	56.64	51.85	48.76	--
25m	12mm	0210	<b>303-057</b>	97.00	89.65	80.32	70.21	--

**Cableater**

**Slit Harness Wrap**



- Wraps wires, rubber hoses or cables in a protective enclosure
- Greatly reduces assembly time, thus cost saving
- Slits allow for 360° flexibility
- 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

Maximum Bundle Dia.	A B C			Harness Wrap (10m length)	
	Mfrs. List No.	Order Code			
10	8	0.8	10	SHR08NB.	722-3626
16	15	0.8	14	SHR15NB.	722-3638
23	20	0.9	17	SHR20NB.	722-3640
25	25	1	20	SHR25NB.	722-3651

208269

Bundle Dia.	Order Code	Price Per Length				
		1+	5+	10+	20+	+
<b>Harness Wrap, 10m Length</b>						
10mm	<b>722-3626</b>	42.13	38.62	35.94	31.59	--
16mm	<b>722-3638</b>	57.80	53.01	49.36	43.38	--
23mm	<b>722-3640</b>	637.00	--	--	--	--
25mm	<b>722-3651</b>	117.09	107.35	99.92	87.85	--
<b>Installation Tool</b>						
10mm	<b>508-5895</b>	14.97	13.41	--	--	--
16mm	<b>118-7588</b>	20.90	19.89	--	--	--
23mm	<b>508-5913</b>	25.06	22.95	--	--	--
25mm	<b>508-5925</b>	33.49	31.02	--	--	--

**Cable Clips**

**Wire Retainer**



Wires are "slid" into the clip and held in place by tension. The clip may be used to mount flat items such as posters, mirrors, signs, etc.

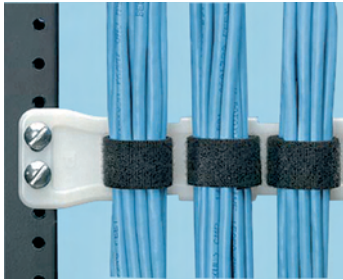
Colour	Height (mm)	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Mounting Method	Order Code
Natural	10.2	35.6	9.5	9.5	M3 Screw	101-5298
Black	10.2	35.6	9.5	9.5	M3 Screw	101-5299



419501/436399

100 Per Pack Order Code	1+	Price Per Pack	3+
101-5298	51.92		46.71
101-5299	57.26		51.56

Flat Standoff Mount

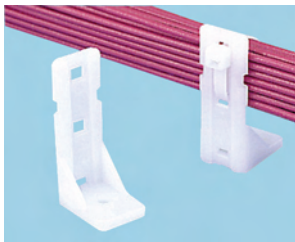


- Organise cable vertically or horizontally in enclosures or on equipment racks
- Use where depth is critical or space is limited

Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
41.3	142.2	4.8	6.6	2x M6 Screws	101-4851

5 Per Pack Order Code	1+	Price Per Pack	3+
101-4851	47.98		43.19

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
50.8	26.9	19.1	5.8	M5.5 Screw	101-4848
116.8	27.9	18.3	5.1	M5 Screw	101-4849
116.8	26.9	19.1	5.8	M5.5 Screw	101-4850

10 Per Pack Order Code	1+	Price Per Pack	3+
101-4847	35.90		32.32
101-4848	35.90		32.32
101-4849	60.71		54.65
101-4850	80.30		72.26

Knock-In Low Profile Mounts

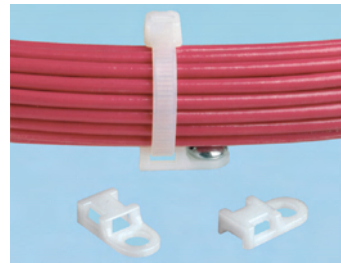


- Eliminates screws by using an integral push rivet
- Secures wires to any pre-drilled panel
- Can be installed in any panel thickness
- Low profile design keeps bundle close to mounting surface where overhead space is limited

Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Colour	Order Code
3	18.7	12.4	3.7	Red	101-4837
3	18.7	12.4	4.3	Blue	101-4838
3	18.7	12.4	5	Yellow	101-4839

100 Per Pack Order Code	1+	Price Per Pack	3+
101-4837	47.78		43.03
101-4838	47.78		43.03
101-4839	47.78		43.03

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
- 1014846 has elongated fixing slot and lower profile

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
3.2	31.1	12.7	5	M5 Screw	101-4846

100 Per Pack Order Code	1+	Price Per Pack	3+
101-4843	56.21		50.62
101-4844	56.21		50.62
101-4846	86.45		77.79

Screw Applied-Low Profile Mounts

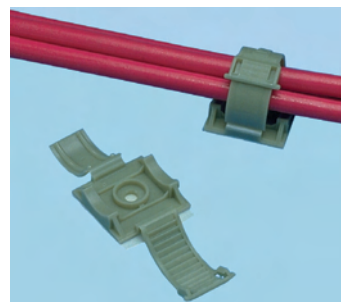


- Small overall size allows use where space is limited
- Install with a screw or rivet for a strong, secure installation
- Low profile design keeps bundle close to mounting surface where overhead space is limited

Height (mm)	Length (mm)	Width (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
2.5	10.2	8.1	2.4	M2 C/S Screw	101-4840
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

100 Per Pack Order Code	1+	Price Per Pack	3+
101-4840	28.87		25.97
101-4841	32.71		29.46
101-4842	39.58		35.61

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

25 Per Pack Order Code	1+	Price Per Pack	3+
101-4887	38.99		35.09
101-4888	42.90		38.60
101-4889	28.29		25.42
101-4890	31.15		28.06



**Flat Cable Mounting System**



- Secures stacked cables, folds and break-outs plus laminated and moulded bus bars
- Mounting Application: Use one (1) base, one (1) corresponding size plate, and one (1) Intermediate cross section cable tie
- Bundling Application: Use two (2) plates (same size) and one Intermediate cross section cable tie

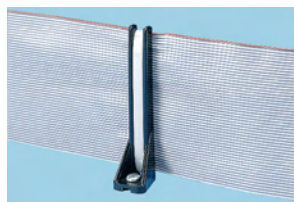


Description	Height (mm)	Length (mm)	Width (mm)	Hole Dia. (mm)	Mounting Method	Order Code
Base	3.8	83.5	9.5	5.1	User	101-4946
Base	3.8	88.9	9.5	5.1	Supplied	101-4947
Base	3.8	114.8	9.5	5.1	Adhesive	101-4949
Base	3.8	83.5	9.5	5.1	M5 Screw	101-4951
Base	3.8	88.9	9.5	5.1	M5 Screw	101-4952
Base	3.8	114.8	9.5	5.1	M5 Screw	101-4953
Plate	5.1	32.8	26.4			101-4954
Plate	5.1	58.7	51.8			101-4955
Plate	5.1	84.3	77.2			101-4956

419614/436528

100 Per Pack Order Code	1+	Price Per Pack	3+
101-4946	68.81		61.94
101-4947	73.73		66.34
101-4949	85.54		76.98
101-4951	70.70		63.64
101-4952	80.43		72.39
101-4953	105.69		95.14
101-4954	49.15		44.24
101-4955	59.66		53.71
101-4956	71.09		63.99

**Flat Cable Mounting System-Right Angle Base**



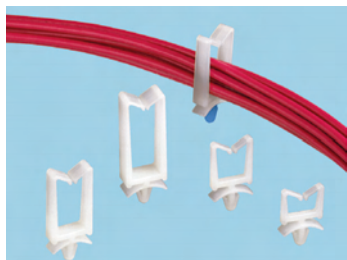
- Ideal for perpendicular applications

Height (mm)	Length (mm)	Width (mm)	Hole Dia. (mm)	Mounting Method	Order Code
44.4	19	16	3.7	M3 Screw	101-4969
70.6	19	16	3.7	M3 Screw	101-4970
96.8	19	16	3.7	M3 Screw	101-4971

419650/436535

100 Per Pack Order Code	1+	Price Per Pack	3+
101-4969	331.81		298.65
101-4970	397.08		357.40
101-4971	430.83		387.74

**Vertical Entry Wire Saddles**



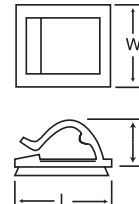
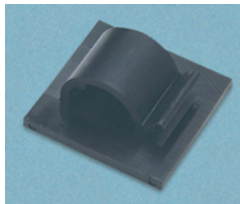
- Funnel entry design for fast insertion of wires and cables
- Available in vertical and horizontal loading configurations
- Design of wing provides added stability
- 1014992 is horizontal

Height (mm)	Width (mm)	Max. Panel Thickness (mm)	Panel Hole Dia. (mm)	Order Code
14.7	15.2	2	4.7	101-4988
19.8	15.2	2	4.7	101-4989
29	15.2	2	4.7	101-4990
36.8	15.2	2	4.7	101-4991
10.7	11.2	2	4.7	101-4992

419668/436394

100 Per Pack Order Code	1+	Price Per Pack	3+
101-4988	53.54		48.17
101-4989	64.71		58.23
101-4990	95.92		86.32
101-4991	121.83		109.66
101-4992	29.72		26.72

**Self-Adhesive Nylon**



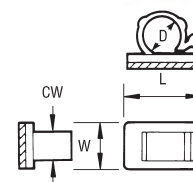
- Designed for applications whose fixing holes would be impractical or unsightly
- Cover diameters 5 to 14mm
- Moulded in Natural or Black Nylon 66

Cable Dia.	Base		Natural		Black	
	W	L	Mftrs.	Order Code	Mftrs.	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

50 Per Pack	Cable Dia	Order Code	Price Per Pack			
			1+	5+	10+	50+
Natural	5	116-9049	12.09	11.15	9.86	8.28
	8	116-9050	15.56	14.55	12.95	10.99
	14	116-9052	22.90	21.42	18.90	16.00
Black	5	116-9053	12.09	11.15	9.86	8.28
	8	116-9054	15.27	14.08	12.51	10.62
	14	116-9055	18.72	17.41	15.36	13.09

**Self-Adhesive Nylon**



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

224086

50 Per Pack Order Code	1+	Price Per Pack		
		5+	10+	50+
116-8957	15.69	14.62	12.98	11.02
116-8958	17.26	16.10	14.36	12.32
116-8959	18.46	16.98	15.15	13.01
116-8960	23.53	21.86	19.28	16.38
116-8961	26.67	24.70	22.08	18.81

**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



208055

100 Per Pack				Price Per Pack			
Cable Dia.	Base L	Dimensions W	Order Code	1+	5+	10+	50+
6	25.8	13.4	434-188	26.53	23.64	21.09	18.42
9	29.4	13.4	434-190	27.63	24.69	22.14	19.17
12	35.5	16.4	434-206	29.68	26.49	23.67	20.61
14	36.5	16.4	434-218	32.99	29.40	26.22	22.95
16	38.5	16.4	434-220	34.33	30.63	27.39	23.88
18	42	16.4	434-231	36.38	32.28	28.98	25.26

**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
- Available in 2 sizes

Operating temperature -40°C to +70°C

224087

250 Per Pack				Price Per Pack				
Bundle Dia.	Base Size	Order Code	1+	5+	10+	+	+	
2 - 6	11 x 16	235-520	24.48	22.74	22.04	--	--	
4 - 10	16 x 19	235-532	32.13	29.57	--	--	--	

**Winged Tie Push Mount**



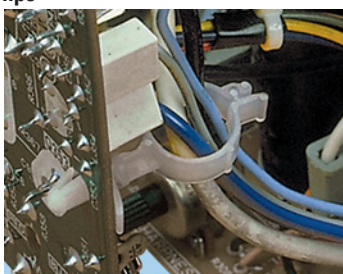
- Insert into pre-drilled holes
- The winged base applies pressure on the panel wall to provide a more secure mount in high vibration applications
- Can be used where only one side of panel is accessible

Height (mm)	Length (mm)	Width (mm)	Max. Panel Thickness (mm)	Panel Hole Dia. (mm)	Order Code
18.3	18	15.5	2.3	6.4	101-4872

419584/436484

100 Per Pack		Price Per Pack	
Order Code	1+	3+	
101-4872	73.92	66.53	

**Wire Standoff Clips**



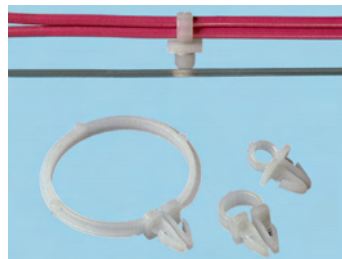
- For retaining wires, cable, components or tubing away from panel or conductive chassis
- Finger grip flanges can be easily locked or unlocked for revisions
- Hand installed in pre-drilled hole

Max. Bundle Dia. (mm)	Standoff Height (mm)	Max. Panel Thickness (mm)	Panel Hole Dia. (mm)	Order Code
6.4	6.4	2	4.7	101-4993
6.4	12.7	2	4.7	101-4994
6.4	19.1	2	4.7	101-4995
8.9	6.4	2	4.7	101-4996
8.9	12.7	2	4.7	101-4998
8.9	19.1	2	4.7	101-4999
11.9	6.4	2	4.7	101-5001
11.9	12.7	2	4.7	101-5002
11.9	19.1	2	4.7	101-5003
19.8	6.4	2	4.7	101-5004
19.8	12.7	2	4.7	101-5005
19.8	19.1	2	4.7	101-5006

419669/436395

100 Per Pack Order Code	1+	Price Per Pack	3+
101-4993	82.84		74.57
101-4994	82.84		74.57
101-4995	82.84		74.57
101-4996	82.84		74.57
101-4998	82.84		74.57
101-4999	82.84		74.57
101-5001	84.11		75.68
101-5002	84.11		75.68
101-5003	84.11		75.68
101-5004	96.71		87.04
101-5005	96.71		87.04
101-5006	71.54		64.42

**Push Barb Snap-In Clips**



- The clips hold wire bundles securely. Clips are placed on the bundle then attached to the panel
- Designed for pre-drilled holes

Height (mm)	Max. Bundle Dia. (mm)	Max. Panel Thickness (mm)	Panel Hole Dia. (mm)	Order Code
20.9	6.4	2.5	6.4	101-4979
24.9	9.7	2.5	6.4	101-4980
28.2	12.7	2.5	6.4	101-4981
35.6	19.1	2.5	6.4	101-4982
41.9	25.4	2.5	6.4	101-4983
54.6	38	2.5	6.4	101-4984

419666/436391

100 Per Pack		Price Per Pack	
Order Code	1+	3+	
101-4979	43.36	39.03	
101-4980	53.22	47.88	
101-4981	65.43	58.88	
101-4982	75.22	67.70	
101-4983	87.62	78.87	
101-4984	95.34	85.80	

**Harness Clips**



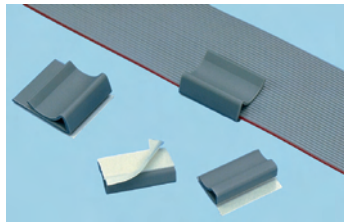
- Integral "spring" holds wire bundles tight
- Used in pre-drilled 6.4mm diameter holes in panels up to 2.7mm thick
- Vertical and horizontal versions available

Cable Entry	Height (mm)	Length (mm)	Width (mm)	Max. Panel Thickness (mm)	Fixing Hole Dia. (mm)	Mounting Method	Order Code
Vertical	15	18.7	18.7	1.2	4	Clip-on	101-4976
Vertical	31.8	10	15	3	6.4	Push Mount	101-4977
Horizontal	27.9	20.2	10	2.7	6.4	Push Mount	101-4978

419665/436538

100 Per Pack		Price Per Pack	
Order Code	1+	3+	
101-4976	75.42	67.87	
101-4977	80.56	72.49	
101-4978	80.56	72.49	

**Adhesive Ribbon Cable Clips**

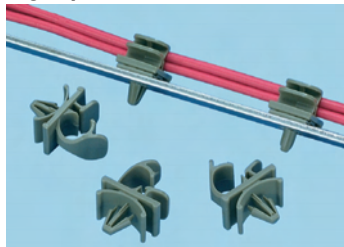


- Used with any width flat cable for a maximum stack height of 4.3mm
- Rubber adhesive

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

100 Per Pack Order Code	Price Per Pack	1+	3+
101-4944	47.46		42.74
101-4945	50.00		45.02

**Push Barb Latching Clips**

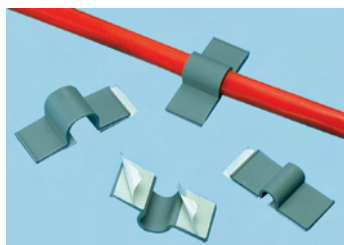


- Holds wires, cables and tubing
- Material: Nylon 6.6
- Maximum Panel Thickness: 2.7mm

Colour	Height (mm)	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Panel Hole Dia. (mm)	Order Code
Natural	10.4	21.6	12.8	4.8	5.6	101-4931
Grey	10.4	21.6	12.8	4.8	5.6	101-4932
Natural	11.9	21.8	14.7	6.4	5.6	101-4933
Grey	11.9	21.8	14.7	6.4	5.6	101-4934
Natural	14.5	23.9	14.7	9.5	5.6	101-4935
Grey	14.5	23.9	14.7	9.5	5.6	101-4937
Natural	19.8	31.8	19.3	12.7	5.6	101-4938
Grey	19.8	31.8	19.3	12.7	5.6	101-4939
Natural	24.7	36.8	22.1	19.1	5.6	101-4940
Grey	24.7	36.8	22.1	19.1	5.6	101-4941
Natural	33	47.9	25.4	25.4	5.6	101-4942
Grey	33	47.9	25.4	25.4	5.6	101-4943

100 Per Pack Order Code	Price Per Pack	1+	3+
101-4931	130.72		117.67
101-4932	143.77		129.42
101-4933	119.82		107.84
101-4934	131.76		118.58
101-4935	126.13		113.53
101-4937	138.73		124.86
50 Per Pack Order Code			
101-4938	49.35		44.43
101-4939	54.26		48.83
101-4940	63.34		57.00
101-4941	69.66		62.72
101-4942	110.41		99.38
101-4943	121.44		109.30

**Adhesive Dual Pad Clip**

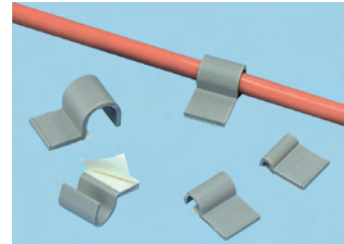


- Holds cords, cables and tubing
- Two rubber adhesive pads for added strength

Height (mm)	Length (mm)	Width (mm)	Max. Bundle Dia. (mm)	Max. Static Load (g)	Order Code
5.8	33	16	3	64	101-4896
9.1	36.3	16	6.4	64	101-4897
12.4	39.6	16	9.5	64	101-4898
15.5	43.7	16	12.7	64	101-4899

100 Per Pack Order Code	Price Per Pack	1+	3+
101-4896	35.58		32.03
101-4897	44.46		40.04
101-4898	58.30		52.47
101-4899	87.56		78.80

**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
13	26.4	16	9.5	169	101-4893
16.3	29.7	16	12.7	169	101-4895

100 Per Pack Order Code	Price Per Pack	1+	3+
101-4891	32.84		29.56
101-4892	40.30		36.26
101-4893	48.04		43.26
101-4895	54.13		48.69

**Self-Adhesive Aluminium Buckle**



- Easily formed buckle
- Self-adhesive foam pad
- Available in two sizes

Operating temperature -40°C to +70°C

250 Per Pack Nominal Bundle Dia.	Base	Order Code	Price Per Pack	1+	5+	10+	+	+
13	11.5 x 25.4	135-471	48.96	46.05	43.99	--	--	--
19	16.3 x 25.4	135-483	60.60	54.54	54.17	--	--	--

**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



Width (mm)	Bundle Offset (mm)	Max. Bundle Dia. (mm)	Mounting	Natural Order Code	Black Order Code
12.7	24.6	28.4	M5 Screw	101-5031	101-5290
12.7	25.4	30.2	M5 Screw	101-5032	101-5292
12.7	26.9	31.8	M5 Screw	101-5033	101-5293
12.7	28.4	34.8	M5 Screw	101-5034	101-5294
12.7	30.2	38.1	M5 Screw	101-5036	101-5295

419482/436546

100 Per Pack Order Code	Price Per Pack	
	1+	3+
<b>Natural / Nylon</b>		
101-5007	17.06	15.33
101-5008	16.80	15.10
101-5009	16.86	15.14
101-5010	16.86	15.14
101-5012	18.62	16.76
101-5013	19.66	17.71
101-5014	20.18	18.16
101-5015	20.64	18.59
101-5016	25.65	23.08
101-5017	26.63	23.96
101-5018	26.89	24.22
101-5019	27.96	25.13
101-5020	29.78	26.79
101-5021	31.28	28.16
101-5022	31.67	28.51
101-5024	34.08	30.69
101-5025	35.45	31.90
101-5026	36.03	32.45
101-5027	36.68	33.04
101-5028	37.79	34.01
101-5029	38.93	35.02
101-5030	44.01	39.61
101-5031	44.01	39.61
101-5032	45.50	40.98
101-5033	46.74	42.09
101-5034	50.29	45.24
101-5036	50.06	45.08
<b>Black / Weather Resistant Nylon</b>		
101-5265	19.66	17.71
101-5267	19.33	17.41
101-5268	19.33	17.41
101-5269	19.33	17.41
101-5270	21.42	19.27
101-5271	22.59	20.34
101-5272	23.37	21.03
101-5273	23.76	21.39
101-5274	29.52	26.56
101-5275	30.63	27.54
101-5276	30.89	27.80
101-5277	32.13	28.94
101-5279	34.21	30.79
101-5281	35.97	32.39
101-5282	36.42	32.78
101-5283	39.19	35.25
101-5284	40.75	36.65
101-5285	41.40	37.24
101-5286	42.18	37.95
101-5287	43.49	39.16
101-5288	44.79	40.33
101-5289	50.62	45.54
101-5290	50.62	45.54
101-5292	52.37	47.13
101-5293	53.74	48.34
101-5294	57.78	52.01
101-5295	57.58	51.85

**Self-Adhesive Coated Aluminium**



General Purpose Hook



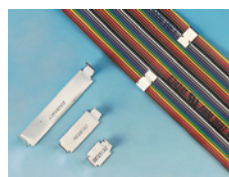
- White gloss polyester coating
- Self-adhesive foam pad
- Available in two sizes

Operating temperature -10°C to +65°C

208281

100 Per Pack Nominal Bundle Dia.	Base Size	Order Code	Price Per Pack				
			1+	+	+	+	+
8	16 x 16	302-7910	32.50	--	--	--	--
17	25 x 25	302-7922	38.22	--	--	--	--

**Self-Adhesive Aluminium Ribbon Cable**



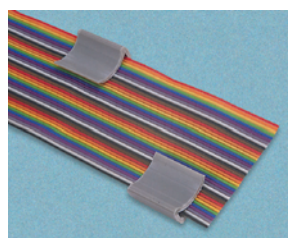
- Fast, easy installation
- Self-adhesive foam pad
- Wide range of sizes

Operating temperature -40°C to +70°C

208279

100 Per Pack No. of Conductors	Ribbon Width	Order Code	Price Per Pack				
			1+	5+	10+	25+	+
10	12.7	302-7855	18.19	16.47	15.66	14.37	--
20	25.4	302-7867	18.82	16.35	15.54	15.39	--
26	33.1	302-7879	22.41	19.38	18.48	17.16	--
34	43.3	302-7880	22.74	20.01	19.08	18.65	--
40	50.8	302-7892	24.34	22.41	21.21	20.04	--
50	63.5	302-7909	26.83	23.94	22.74	22.46	--

**Ribbon Cable Clamps - Self-Adhesive**



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

208093

100 Per Pack Dimensions W D H	Order Code	Price Per Pack				
		1+	5+	10+	25+	+
15 25 10	581-975	24.81	22.62	20.37	17.31	--
20 25 10	581-987	28.89	26.37	23.70	20.25	--
25 25 10	581-999	28.11	26.58	25.35	23.19	--
28 25 10	582-001	37.23	33.84	30.54	26.10	--

**Ribbon Cable Clamps - Self-Adhesive**



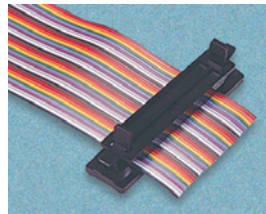
- One-piece releasable ribbon cable clamps in Natural Nylon 66
- Self-adhesive foam pad
- Flame retardant to UL94V-2

No. of Ribbon Conductors	Max. Cable Width	Overall Length	Overall Width	Overall Height	Order Code
25	32.0	45.8	19.4	18.0	303-0520
30	39.5	53.3	19.4	18.0	303-0532
50	63.5	76.2	19.4	18.0	303-0544

208290

100 Per Pack No. of Ribbon Conductors	Max. Cable Width	Order Code	10+	50+	100+	500+	+
			25	32.0	303-0520	0.53	0.47
30	39.5	303-0532	0.63	0.56	0.50	0.37	--
50	63.5	303-0544	0.69	0.63	0.56	0.43	--

**Ribbon Cable Clamps - Self-Adhesive**



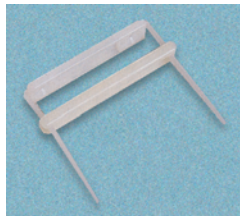
- A range of moulded nylon clamps for ribbon cable up to 64 way
- Unique method of clamping allows several layers of cable to be clamped
- 6BA countersunk screw fixing

No. of Ribbon Conductors	Length	Maximum Cable Width	Height	Fixing Centres	Order Code
26	51	33	17	42	145-426
40	76	67	17	67	145-427
64	107	85	17	98	145-428

224088

No. of Ribbon Conductors	Order Code	5+	25+	100+	250+	+
26	145-426	0.69	0.60	0.54	0.48	--
40	145-427	0.81	0.69	0.66	0.60	--
64	145-428	0.90	0.81	0.75	0.69	--

**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	Capacity Height	Order Codes	
			Screw Mounting	Adhesive Mounting
20	25.4	12.7	121-2499	121-2501
40	50.8	25.4	302-855	121-2502
60	76.2	25.4	121-2500	121-2504

224089

No. of Ribbon Conductors	Mfrs. List No.	Order Code	Price Each		
			5+	50+	100+
20	FCC-1	121-2499	1.17	1.04	0.98
40	FCC2	302-855	1.32	1.13	0.98
60	FCC-3	121-2500	1.58	1.39	1.17
<b>Adhesive Mounting</b>					
20	FCC-1A	121-2501	2.98	--	--
40	FCC-2A	121-2502	2.08	1.83	1.58
60	FCC-3A	121-2504	2.77	2.43	2.08

**P-Clips, Nylon**



- P-clips manufactured in **UL94V-2** flame retardant Natural Nylon 66
- Suitable for fixing cables, looms etc up to 25.4mm diameter.

**Best value**

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

208056

Nominal Bundle Dia.	Clip Width	Order Code	Price Each			
			1+	5+	10+	50+
3.2	9.6	434-097	8.45	7.35	6.27	5.31
4.8	9.6	434-103	9.18	8.07	6.93	5.76
6.35	10	434-115	9.88	8.76	7.41	6.21
7.9	10	434-127	10.65	9.27	7.92	6.66
9.5	12	434-139	11.35	9.96	8.46	7.11
12.7	12	434-140	14.93	13.11	11.22	9.39
15.8	12	434-152	16.40	14.37	12.24	10.29
19.4	12	434-164	22.31	19.59	16.71	14.10
25.4	12	121-8018	25.77	22.56	19.17	16.20

**P-Clips, Nylon**



A range of Natural nylon P-clips for the positive fixing of cables, looms and pipes up to 16mm diameter.

Operating Temperature -20°C to +85°C  
Nominal fixing hole diameter 5  
Clip width 9.5  
12.7 (146-179)

CAB118/224090

Pack Qty	Nom Cable Dia.	Order Code	Price Per Pack				
			1+	3+	5+	10+	+
100	3	146-173	18.70	17.39	15.97	14.90	--
100	6	146-174	18.70	17.23	16.19	14.77	--
100	7.5	146-175	20.15	18.59	17.32	16.00	--
100	9	146-176	23.61	21.77	19.94	18.65	--
100	11	146-177	26.38	24.38	21.96	18.84	--
100	12.5	146-178	24.39	22.74	21.11	19.37	--
50	16	146-179	23.36	21.55	19.78	18.65	--

**P-Clips, Nylon Black**



- A range of Black flexible Nylon 6 P-Clips
- Suitable for fixing cables and pipes up to 25.4mm diameter

Operating temperature -50°C to +80°C  
Mfrs. List No. NX0 =330-8625 NX2A =330-8650 NX5 =330-8686 NX11 =330-8716  
NX1 =330-8637 NX3 =330-8662 NX6 =330-8698 NX14 =330-8728  
NX2 =330-8649 NX4 =330-8674 NX8 =330-8704

208355

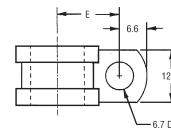
Nominal Bundle Dia.	Clip Width	Fixing Hole Dia.	Order code	Price Per Pack				
				1+	5+	10+	25+	+
3.4	6.2	3.5	330-8625	9.89	9.48	8.54	7.63	--
5	6.2	3.5	330-8637	10.06	9.70	8.73	7.63	--
6.4	6.2	3.5	330-8649	10.68	10.08	9.26	8.06	--
7.6	9.4	3.9	330-8650	12.61	11.88	10.84	9.12	--
8	9.4	3.9	330-8662	13.23	12.69	12.25	10.13	--
10	9.4	3.9	330-8674	14.99	13.73	12.85	10.66	--
12	9.4	3.9	330-8686	15.06	14.55	13.83	11.00	--
13.6	9.4	3.9	330-8698	20.12	19.59	18.65	14.62	--
14.3-15.8	12.6	4	330-8704	25.33	24.41	23.25	18.63	--
17.4-20	12.6	4	330-8716	31.51	29.83	27.50	23.20	--
22.2-25.4	16	4.3	330-8728	35.91	33.74	30.84	26.32	--

**P-Clamp, Steel**

Zinc Plated with Santoprene Cushion



**PRO-POWER**  
Quality Cables



- Secure clamping of cables
- Santoprene cushion prevents chating

208311

D	E	Order Code	Price Each				
			1+	10+	25+	50+	+
4.8	12.7	120-2527	20.78	19.55	18.53	16.48	--
6.4	13.5	120-2528	21.15	19.90	18.85	16.76	--
9.5	15	120-2529	21.51	20.24	19.17	17.03	--
12.7	16.5	120-2530	25.54	24.02	22.74	20.22	--
19.1	21.3	120-2531	33.65	30.00	28.13	25.71	--
25.4	24.4	120-2532	34.19	32.17	30.47	27.09	--

**Cable Cleats**



Cable Size	Range	
	Min	Max
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

Cable Size	Order Code	Price Each				
		1+	5+	10+	25+	+
NP4	725-7338	3.24	2.94	2.76	2.43	--
NP5	725-7340	2.78	2.52	2.40	2.07	--
NP6	725-7351	3.98	3.57	3.39	2.97	--
NP7	725-7363	4.96	4.44	4.23	3.66	--
NP8	725-7375	4.90	4.41	4.17	3.63	--
NP9	725-7387	5.36	4.83	4.56	3.96	--
NP10	725-7399	5.66	5.10	4.80	4.20	--

3

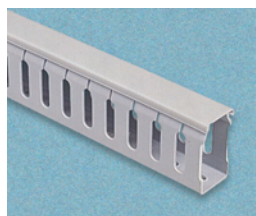
Cable Accessories

Compliant  
Non-compliant  
+ Limited stock - RoHS replacement available

**RoHS**

**Cable Trunking**

**Open Slot Betaduct**



- A range of **CSA** and **Lloyds** approved trunking with open slots and snap-on lids, base slotted to **DIN43659**
- Manufactured in Grey PVC with limiting oxygen index (L.O.I.) **43**

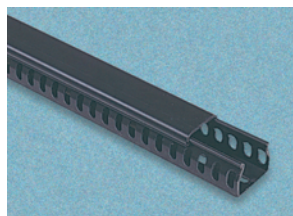
Operating temperature -15°C to +60°C

Internal Dimensions		Slot Dimensions		Pitch	Order Code
H	W	H	W		
37.5	25	16.0	8	19.1	218-121
50	25	29.5	8	19.1	218-133
25	50	12.0	8	19.1	218-145
50	50	29.5	8	19.1	218-157

207978

Packs of 4 x 1m Lengths			Price Per Pack					
H	W	Order Code	1+	5+	10+	25+	+	+
37.5	25	218-121	23.73	21.09	19.26	17.25	--	--
50	25	218-133	31.59	28.14	25.74	22.95	--	--
25	50	218-145	34.74	30.96	27.81	22.95	--	--
50	50	218-157	44.91	40.02	35.79	29.73	--	--

**Closed Slot Betaduct**



- A range of **CSA** and **Lloyds** approved trunking with closed slots and snap-on lids, base slotted to **DIN43659**
- Manufactured in Black PVC with limiting oxygen index (L.O.I.) **43**

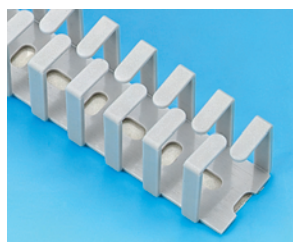
Operating temperature -15°C to +60°C

Internal Dimensions		Slot Dimensions		Pitch	Order Code
H	W	H	W		
15	15	4.0	11	19.1	146-546
20	25	11.0	5	9.5	146-547
50	25	29.5	8	19.1	146-548
50	50	29.5	8	19.1	146-549

224093

Packs of 4 x 1m Lengths			Price Per Pack					
H	W	Order Code	1+	5+	10+	25+	+	+
15	15	146-546	21.96	19.89	19.65	18.72	--	--
20	25	146-547	24.09	21.78	21.06	19.98	--	--
50	25	146-548	29.53	--	--	--	--	--
50	50	146-549	37.94	--	--	--	--	--

**Cable Trunking Kanalflex**



- Manufactured in Grey (RAL 7040) thermo-plastic polymer
- Flame retardant to **UL94V-0**
- Adhesive backed
- Good resistance to UV rays and chemicals
- Dielectric constant to **ASTM D2863**

Dimensions		Mftrs. List No.	Order Code
H	W		
12.5	12.5	B905	317-8500
16	16	B906	317-8511
20	20	B907	317-8523
25	25	B908	317-8535
30	30	B909	317-8547
40	40	B910	317-8559
50	50	B911	317-8560

Operating temperature -40°C to +140°C

208324

Packs of 10 x 0.5m Lengths			Price Per Pack					
H	W	Order Code	1+	5+	10+	25+	+	+
12.5	12.5	317-8500	37.44	34.95	32.40	28.96	--	--
16	16	317-8511	41.82	38.25	35.19	31.86	--	--
20	20	317-8523	44.68	40.38	37.47	35.20	--	--
25	25	317-8535	62.40	57.99	53.22	48.27	--	--
30	30	317-8547	71.76	67.05	61.32	55.51	--	--
40	40	317-8559	92.10	84.45	77.10	70.47	--	--
50	50	317-8560	106.70	98.52	90.57	82.54	--	--

**Heat Shrink Tubing**

**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

**S1081 Heatshrinkable Repair Tape**

- Black non-flame retarded, polyolefin based harness tape
- When heated to in excess of 120°C tape shrinks lengthways and self amalgamates
- Ideal for use on damaged cable or where installing heat shrink is impractical
- Tape width: 20mm, thickness: 0.64mm
- Operating temperature -80°C to +130°C

248489

Mftrs.	List No.	Length	Order Code	1+	5+	10+	25+	+
	S1030	10m	417-6704	30.45	27.66	25.35	24.04	--
	S1081	10m	417-6716	82.98	75.27	69.00	65.43	--

**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. Nom.	Shrunk	Length (m)	Order Code	Price Per Reel			
				1+	2+	10+	50+
1.6	0.8	10	121-0562	33.27	30.63	29.43	27.28
2.4	1.2	10	121-0564	33.27	30.63	29.43	27.28
3.2	1.6	10	121-0565	33.27	30.63	29.43	27.28
4.8	2.4	9	121-0566	33.27	30.63	29.43	27.28
6.4	3.2	8	121-0568	33.27	30.63	29.43	27.28
9.5	4.8	6	121-0569	33.27	30.63	29.43	27.28
12.7	6.4	6	121-0570	33.27	30.63	29.43	27.28
19	9.5	5	121-0571	33.27	30.63	29.43	27.28
25.4	12.7	3	121-0572	33.27	30.63	29.43	27.28

**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

224055

Dia. Nom.	Shrunk	Reel Length (m)	Order Code	Price Per Reel			
				1+	3+	5+	10+
1.6	0.8	150	119-0766	15.31	13.84	12.72	11.34
2.4	1.2	150	119-0767	15.32	13.85	12.73	11.34
3.2	1.6	150	119-0768	14.60	13.86	12.74	11.35
4.8	2.4	150	119-0769	9.25	8.36	7.68	6.85
6.4	3.2	75	119-0770	12.28	11.10	10.20	9.09
9.5	4.7	75	119-0771	12.30	11.12	10.22	9.10
12.7	6.3	75	119-0772	11.15	10.22	9.35	8.42
19	9.5	60	119-0773	227.88	211.71	191.49	174.39
25.4	12.7	60	119-0774	357.93	321.60	289.08	248.40
38.1	19	30	119-0776	381.49	346.05	308.40	285.30
50.8	25.4	30	119-0777	548.41	501.30	466.26	418.83



Black - 1.2m Lengths								
Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0778	4.98	---	---	---	---	---
2.4	1.2	119-0779	4.98	---	---	---	---	---
3.2	1.6	119-0781	4.98	---	---	---	---	---
4.8	2.4	119-0782	4.98	---	---	---	---	---
6.4	3.2	119-0783	4.98	---	---	---	---	---
9.5	4.7	119-0784	5.60	5.47	5.34	5.24	---	---
12.7	6.3	119-0785	7.03	6.74	6.35	6.18	---	---
19	9.5	119-0786	7.71	7.26	6.99	6.51	---	---
25.4	12.7	119-0788	12.30	11.82	11.52	10.62	---	---
38.1	19	119-0789	19.61	18.48	17.73	16.35	---	---
50.8	25.4	119-0790	26.68	25.77	24.99	22.74	---	---

Black - 5m Coils								
Dia.	Order	Price Per Coil						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0791	12.82	12.08	11.23	11.00	---	---
2.4	1.2	119-0792	13.44	12.73	11.72	11.49	---	---
3.2	1.6	119-0793	13.61	13.05	12.24	12.01	---	---
4.8	2.4	119-0794	16.57	15.75	14.65	14.35	---	---
6.4	3.2	119-0795	19.48	18.24	17.07	15.98	---	---
9.5	4.7	119-0796	20.89	19.57	18.13	16.94	---	---
12.7	6.3	119-0797	17.63	16.61	15.65	14.75	---	---
19	9.5	119-0798	32.86	31.20	29.70	28.32	---	---
25.4	12.7	119-0800	52.02	49.98	47.88	45.09	---	---
38.1	19	119-0801	81.18	77.61	75.15	68.91	---	---
50.8	25.4	119-0802	109.46	103.38	100.02	94.23	---	---

Clear - 1.2m Lengths								
Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0803	4.98	---	---	---	---	---
2.4	1.2	119-0804	4.98	---	---	---	---	---
3.2	1.6	119-0806	4.98	---	---	---	---	---
4.8	2.4	119-0807	4.98	---	---	---	---	---
6.4	3.2	119-0808	4.98	---	---	---	---	---
9.5	4.7	119-0809	5.60	5.47	5.34	5.24	---	---
12.7	6.3	119-0810	7.03	6.74	6.35	6.18	---	---
19.1	9.5	119-0811	8.53	8.10	7.81	7.65	---	---
25.4	12.7	119-0812	13.57	13.18	12.86	12.56	---	---
38.1	19	119-0813	17.49	16.48	15.81	14.58	---	---
50.8	25.4	119-0814	12.52	12.09	11.73	10.67	---	---

Clear - 5m Coils								
Dia.	Order	Price Per Coil						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0815	12.82	12.08	11.23	11.00	---	---
2.4	1.2	119-0816	13.44	12.73	11.72	11.49	---	---
3.2	1.6	119-0818	13.61	13.05	12.24	12.01	---	---
4.8	2.4	119-0819	16.57	15.75	14.65	14.35	---	---
6.4	3.2	119-0820	19.48	18.24	17.07	15.98	---	---
9.5	4.7	119-0821	20.89	19.57	18.13	16.94	---	---
12.7	6.3	119-0822	17.65	16.61	15.65	14.75	---	---
19	9.5	119-0823	14.65	13.91	13.24	12.63	---	---
25.4	12.7	119-0824	16.09	15.46	14.81	13.94	---	---
38.1	19	119-0825	17.30	16.61	16.08	14.75	---	---

Clear - Standard Reels							
Dia.	Reel Length	Order Code	Price Per Reel				
Nom.	Shrunk	(m)	1+	3+	5+	10+	
1.6	0.8	150	119-0826	15.31	13.84	12.72	11.34
2.4	1.2	150	119-0827	15.32	13.85	12.73	11.34
3.2	1.6	150	119-0828	14.60	13.86	12.74	11.35
4.8	2.4	150	119-0831	9.25	8.36	7.68	6.85
6.4	3.2	75	119-0832	12.28	11.10	10.20	9.09
9.5	4.7	75	119-0833	12.30	11.12	10.22	9.10
12.7	6.3	75	119-0834	11.15	10.22	9.35	8.42
19	9.5	60	119-0835	8.31	7.72	6.99	6.36
38.1	19	30	119-0836	13.61	12.34	11.00	10.18

Yellow - 1.2m Lengths								
Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0837	2.97	2.88	2.76	2.55	---	---
2.4	1.2	119-0839	3.49	3.39	2.88	2.70	---	---
3.2	1.6	119-0840	3.61	3.45	3.21	2.85	---	---
4.8	2.4	119-0841	3.86	3.69	3.60	3.42	---	---
6.4	3.2	119-0843	4.31	4.20	4.08	3.87	---	---
9.5	4.7	119-0844	5.05	4.89	4.77	4.50	---	---
12.7	6.3	119-0845	6.36	6.03	5.67	5.10	---	---
19	9.5	119-0846	7.71	7.26	6.99	6.51	---	---
25.4	12.7	119-0847	12.30	11.82	11.52	10.62	---	---
38.1	19	119-0848	19.61	18.48	17.73	16.35	---	---
50.8	25.4	119-0849	26.68	25.77	24.99	22.74	---	---

Yellow - 5m Coils								
Dia.	Order	Price Per Coil						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0851	11.60	10.83	10.08	9.18	---	---
2.4	1.2	119-0852	12.18	11.40	10.50	9.75	---	---
3.2	1.6	119-0853	12.33	11.70	10.98	10.29	---	---
4.8	2.4	119-0855	14.99	14.13	13.14	12.51	---	---
6.4	3.2	119-0856	17.11	16.02	15.00	14.04	---	---
9.5	4.7	119-0857	20.50	19.20	17.79	16.62	---	---
12.7	6.3	119-0858	23.56	22.20	20.91	19.71	---	---
19	9.5	119-0859	32.86	31.20	29.70	28.32	---	---
25.4	12.7	119-0860	52.02	49.98	47.88	45.09	---	---

Red - 1.2 Lengths								
Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0861	2.97	2.88	2.76	2.55	---	---
2.4	1.2	119-0862	3.49	3.39	2.88	2.70	---	---
3.2	1.6	119-0864	3.61	3.45	3.21	2.85	---	---
4.8	2.4	119-0865	3.86	3.69	3.60	3.42	---	---
6.4	3.2	119-0867	4.31	4.20	4.08	3.87	---	---
9.5	4.7	119-0868	5.05	4.89	4.77	4.50	---	---
12.7	6.3	119-0869	6.36	6.03	5.67	5.10	---	---
19.1	9.5	119-0870	7.71	7.26	6.99	6.51	---	---
25.4	12.7	119-0871	12.30	11.82	11.52	10.62	---	---
38.1	19	119-0872	19.61	18.48	17.73	16.35	---	---
50.8	25.4	119-0873	26.68	25.77	24.99	22.74	---	---

Red - 5m Coils								
Dia.	Order	Price Per Coil						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0874	12.76	11.91	10.92	9.18	---	---
2.4	1.2	119-0875	13.40	12.54	11.37	9.75	---	---
3.2	1.6	119-0876	13.56	12.87	11.85	10.29	---	---
4.8	2.4	119-0877	16.49	15.54	14.22	12.51	---	---
6.4	3.2	119-0879	18.82	17.64	16.20	14.04	---	---
9.5	4.7	119-0881	22.55	21.12	19.20	16.62	---	---
12.7	6.3	119-0882	25.86	23.94	21.81	19.71	---	---
19	9.5	119-0883	35.92	34.86	33.42	29.97	---	---
25.4	12.7	119-0884	56.89	52.71	50.91	46.05	---	---
38.1	19	119-0885	88.74	84.00	76.35	68.01	---	---

Blue - 1.2m Lengths								
Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0886	2.97	2.88	2.76	2.55	---	---
2.4	1.2	119-0887	3.49	3.39	2.88	2.70	---	---
3.2	1.6	119-0888	3.61	3.45	3.21	2.85	---	---
4.8	2.4	119-0889	3.86	3.69	3.60	3.42	---	---
6.4	3.2	119-0890	4.31	4.20	4.08	3.87	---	---
9.5	4.7	119-0892	5.05	4.89	4.77	4.50	---	---
12.7	6.3	119-0893	6.36	6.03	5.67	5.10	---	---
19	9.5	119-0894	7.71	7.26	6.99	6.51	---	---
25.4	12.7	119-0895	12.30	11.82	11.52	10.62	---	---
38.1	19	119-0896	19.61	18.48	17.73	16.35	---	---
50.8	25.4	119-0897	26.68	25.77	24.99	22.74	---	---

Blue - 5m Coils								
Dia.	Order	Price Per Coil						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0898	12.76	11.91	10.92	9.18	---	---
2.4	1.2	119-0899	13.40	12.54	11.37	9.75	---	---
3.2	1.6	119-0900	13.56	12.87	11.85	10.29	---	---
4.8	2.4	119-0901	16.49	15.54	14.22	12.51	---	---
6.4	3.2	119-0902	18.82	17.64	16.20	14.04	---	---
9.5	4.7	119-0903	22.55	21.12	19.20	16.62	---	---
12.7	6.3	119-0904	25.86	23.94	21.81	19.71	---	---
19	9.5	119-0905	35.92	34.86	33.42	29.97	---	---
25.4	12.7	119-0906	56.89	52.71	50.91	46.05	---	---
38.1	19	119-0907	88.74	84.00	76.35	68.01	---	---

White - 1.2 Lengths								
Dia.	Order	Price Per Lengths						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0909	2.97	2.88	2.76	2.55	---	---
2.4	1.2	119-0911	3.49	3.39	2.88	2.70	---	---
3.2	1.6	119-0912	3.61	3.45	3.21	2.85	---	---
4.8	2.4	119-0913	3.86	3.69	3.60	3.42	---	---
6.4	3.2	119-0914	4.31	4.20	4.08	3.87	---	---
9.5	4.7	119-0915	5.05	4.89	4.77	4.50	---	---
12.7	6.3	119-0916	6.36	6.03	5.67</			

Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
4.8	2.4	119-0926	16.49	15.54	14.22	12.51	--	--
6.4	3.2	119-0927	20.04	17.64	16.20	14.04	--	--
9.5	4.7	119-0928	22.55	21.12	19.20	16.62	--	--
12.7	6.3	119-0929	25.15	23.67	21.60	18.54	--	--
19	9.5	119-0930	33.51	32.22	29.40	25.29	--	--

231143

**Green - 1.2m Lengths**

Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0931	3.09	3.00	2.76	2.55	--	--
2.4	1.2	119-0932	3.64	3.42	2.88	2.70	--	--
3.2	1.6	119-0934	3.76	3.63	2.97	2.85	--	--
4.8	2.4	119-0935	4.04	3.90	3.60	3.42	--	--
6.4	3.2	119-0936	4.50	4.38	4.08	3.87	--	--
9.5	4.7	119-0937	5.29	5.13	4.86	4.62	--	--
12.7	6.3	119-0938	6.55	6.21	5.91	5.40	--	--
19	9.5	119-0939	9.15	8.94	8.79	8.55	--	--
25.4	12.7	119-0940	13.01	12.51	12.27	11.91	--	--
38.1	19	119-0941	20.10	19.38	18.96	18.39	--	--

**Green - 5m Coils**

Dia.	Order	Price Per Coil						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0942	12.76	11.91	10.92	9.18	--	--
2.4	1.2	119-0943	13.40	12.54	11.37	9.75	--	--
3.2	1.6	119-0944	13.56	12.87	11.85	10.29	--	--
4.8	2.4	119-0946	16.49	15.54	14.22	12.51	--	--
6.4	3.2	119-0947	18.82	17.64	16.20	14.04	--	--
9.5	4.7	119-0948	22.55	21.12	19.20	16.62	--	--
12.7	6.3	119-0949	25.15	23.67	21.60	18.54	--	--

**Brown - 1.2m Lengths**

Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	119-0950	3.09	3.00	2.76	2.55	--	--
2.4	1.2	119-0951	3.64	3.42	2.88	2.70	--	--
3.2	1.6	119-0952	3.76	3.63	2.97	2.85	--	--
4.8	2.4	119-0953	4.04	3.90	3.60	3.42	--	--
6.4	3.2	119-0954	4.50	4.38	4.08	3.87	--	--
9.5	4.7	119-0956	5.29	5.13	4.86	4.62	--	--
12.7	6.3	119-0958	6.55	6.21	5.91	5.40	--	--
19	9.5	119-0959	8.32	8.10	8.04	7.74	--	--

**Green/Yellow Earth - 1.2m Lengths**

Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
3.2	1.6	119-0960	3.61	3.48	3.39	3.21	--	--
4.8	2.4	119-0961	3.86	3.72	3.63	3.45	--	--
6.4	3.2	119-0962	4.31	4.17	4.08	3.87	--	--
9.5	4.7	119-0963	5.05	4.89	4.77	4.50	--	--
12.7	6.3	119-0964	6.36	6.03	5.67	5.10	--	--
19	9.5	119-0965	7.71	7.26	6.99	6.51	--	--
25.4	12.7	119-0966	12.30	11.82	11.52	10.62	--	--

**Green/Yellow Earth - 5m Coils**

Dia.	Order	Price Per Coil						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
3.2	1.6	119-0967	13.56	12.87	11.85	10.29	--	--
4.8	2.4	119-0968	16.49	15.54	14.22	12.51	--	--
6.4	3.2	119-0971	18.82	17.64	16.20	14.04	--	--
9.5	4.7	119-0972	22.55	21.12	19.20	16.62	--	--
12.7	6.3	119-0973	25.52	23.97	21.78	19.62	--	--
19	9.5	119-0974	36.35	34.98	33.39	30.24	--	--
25.4	12.7	119-0975	56.27	54.54	51.60	45.96	--	--

**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

**Black - 1.2m Lengths**

Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.2	0.6	119-0977	3.58	3.35	3.06	2.99	--	--
1.6	0.8	119-0978	4.98	--	--	--	--	--
2.4	1.2	119-0979	4.33	4.00	3.39	3.32	--	--
3.2	1.6	119-0980	4.49	4.23	3.68	3.52	--	--
4.8	2.4	119-0981	4.98	--	--	--	--	--
6.4	3.2	119-0983	5.47	5.18	4.98	--	--	--
9.5	4.7	119-0984	6.41	6.02	5.70	5.60	--	--
12.7	6.3	119-0985	7.91	7.52	6.80	6.67	--	--
19	9.5	119-0986	9.99	9.77	9.57	9.37	--	--

**Black - 1.2m Lengths**

Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
25.4	12.7	119-0987	15.66	15.23	14.81	14.52	--	--

**Black - 5m Coils**

Dia.	Order	Price Per Coil						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.2	0.6	119-0988	12.82	12.08	11.23	11.00	--	--
1.6	0.8	119-0989	13.44	12.69	11.85	11.59	--	--
2.4	1.2	119-0990	14.13	13.35	12.30	12.08	--	--
3.2	1.6	119-0991	14.29	13.67	12.86	12.56	--	--
4.8	2.4	119-0992	17.41	16.54	15.43	15.10	--	--
6.4	3.2	119-0993	20.44	19.16	17.93	16.77	--	--
9.5	4.7	119-0995	21.95	20.57	19.02	17.79	--	--
12.7	6.3	119-0996	18.47	17.46	16.88	15.47	--	--
19	9.5	119-0997	15.33	14.95	14.31	13.29	--	--
25.4	12.7	119-0998	16.84	16.11	15.37	14.38	--	--

**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

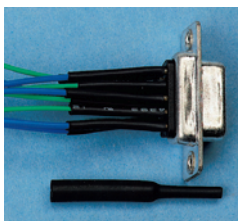
**Black - 1.2m Lengths**

Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	121-0327	3.71	3.45	3.09	2.73	--	--
2.4	1.2	121-0329	3.84	3.65	3.29	2.86	--	--
3.2	1.6	121-0330	4.17	3.97	3.58	3.12	--	--
4.8	2.4	121-0331	4.65	4.36	3.94	3.48	--	--
6.4	3.2	121-0332	5.86	5.53	4.92	4.33	--	--
9.5	4.7	121-0333	6.54	6.15	5.50	4.88	--	--
12.7	6.3	121-0334	7.55	7.10	6.38	5.66	--	--
19	9.5	121-0335	10.03	9.34	8.37	7.45	--	--
25.4	12.7	121-0337	15.85	14.81	13.31	11.82	--	--

**Black - 5m Coils**

Dia.	Order	Price Per Coil						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.6	0.8	121-0338	15.36	14.39	12.89	11.46	--	--
0	1.2	121-0339	14.29	13.64	12.56	12.01	--	--
3.2	1.6	121-0340	14.68	14.06	13.35	13.09	--	--
4.8	2.4	121-0341	19.37	18.16	16.21	14.45	--	--
6.4	3.2	121-0342	20.28	19.40	18.36	17.97	--	--
9.5	4.7	121-0343	24.31	23.18	21.16	20.31	--	--
12.7	6.3	121-0344	27.05	25.84	24.45	23.53	--	--
19	9.5	121-0345	35.77	34.14	32.32	31.02	--	--
25.4	12.7	121-0346	56.44	53.94	51.07	49.25	--	--

**Ultra Thin-Wall - 2:1 Shrink Ratio**



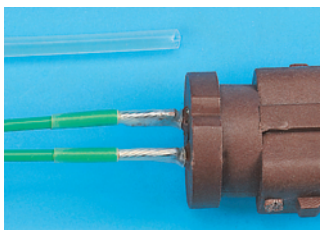
- Rapid shrink at 90°C
- For use where space is limited
- Applications include termination on multipole and 'D' connectors
- Operating temperature range -55°C to +125°C

208195

**Black 1.2m length**

Dia.	Order	Price Per Length						
Nom.	Shrunk	Code	1+	5+	10+	25+	+	+
1.2	0.6	119-0999	4.98	--	--	--	--	--
1.6	0.8	119-1000	4.98	--	--	--	--	--
2.4	1.2	119-1001	4.98	--	--	--	--	--
3.2	1.6	119-1002	4.98	--	--	--	--	--
4.8	2.4	119-1004	4.98	--	--	--	--	--
6.4	3.2	119-1006	4.98	--	--	--	--	--

**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.		Order Code		Price Per Length			
Nom.	Shrunk			1+	5+	10+	25+	+	+
1.2	0.6	121-0600	●	3.84	3.68	3.52	3.45	--	--
1.6	0.8	121-0601	●	4.36	4.17	3.97	3.91	--	--
2.4	1.2	121-0602	●	5.37	5.18	4.92	4.82	--	--
3.2	1.6	121-0603	●	6.35	6.15	5.86	5.76	--	--
4.8	2.4	121-0604	●	8.40	8.04	7.65	7.49	--	--
6.4	3.2	121-0605	●	11.62	11.36	10.74	10.55	--	--
9.5	4.8	121-0606	●	13.90	13.64	13.12	12.82	--	--
12.7	6.4	121-0607	●	22.69	22.23	21.22	20.60	--	--
19	9.5	121-0608	●	37.43	36.68	34.99	34.31	--	--
25.4	12.7	121-0611	●	62.69	61.45	58.75	57.16	--	--

3:1 Shrink Ratio



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

Dielectric strength 20kV/mm min. Operating temperature -55°C to +135°C 208008

Dia		Order Code		Price Per Length					
Nom.	Shrunk			1+	5+	10+	25+	+	+
<b>Black 1.2 Length</b>									
1.5	0.5	119-1009	●	2.94	2.73	2.52	2.25	--	--
3	1	119-1010	●	3.30	3.06	2.79	2.49	--	--
4.5	1.5	119-1011	●	3.89	3.60	3.27	2.94	--	--
6	2	119-1012	●	4.93	4.53	4.14	3.69	--	--
9	3	119-1014	●	5.48	5.07	4.65	4.11	--	--
12	4	119-1015	●	6.52	6.21	5.91	5.34	--	--
18	6	119-1016	●	8.87	8.34	7.89	7.17	--	--
24	8	119-1017	●	13.37	12.72	12.27	10.74	--	--
39	13	119-1018	●	22.58	21.21	20.31	17.85	--	--
<b>Black 5m Coils</b>									
1.5	0.5	119-1021	●	12.21	11.28	10.29	9.21	--	--
3	1	119-1022	●	13.83	12.75	11.67	10.41	--	--
4.5	1.5	119-1023	●	16.22	14.97	13.68	12.21	--	--
6	2	119-1024	●	20.41	18.84	17.22	15.36	--	--
9	3	119-1025	●	22.83	21.06	19.23	17.22	--	--
12	4	119-1026	●	26.96	25.44	24.21	21.27	--	--
18	6	119-1027	●	36.87	35.46	33.93	29.70	--	--
24	8	119-1028	●	55.85	53.34	51.33	45.30	--	--
39	13	119-1029	●	96.21	91.56	87.99	79.98	--	--

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

Mini-Spools		Spool Length		Order Code		Price Per Spool					
Dia.			(m)			1+	5+	10+	25+	+	+
<b>Black</b>											
3	1	10	121-0467	●	18.85	18.20	17.41	16.99	--	--	--
6	2	7	121-0468	●	18.85	18.20	17.41	16.99	--	--	--
9	3	5	121-0469	●	18.85	18.20	17.41	16.99	--	--	--
12	4	4	121-0470	●	18.85	18.20	17.41	16.99	--	--	--
18	6	3	121-0471	●	18.85	18.20	17.41	16.99	--	--	--
24	8	3	121-0472	●	18.85	18.20	17.41	16.99	--	--	--
<b>Red</b>											
3	1	10	121-0473	●	18.85	18.20	17.41	16.99	--	--	--
6	2	7	121-0474	●	18.85	18.20	17.41	16.99	--	--	--
9	3	5	121-0475	●	18.85	18.20	17.41	16.99	--	--	--
12	4	4	121-0476	●	18.85	18.20	17.41	16.99	--	--	--
18	6	3	121-0478	●	18.85	18.20	17.41	16.99	--	--	--
24	8	3	121-0479	●	18.85	18.20	17.41	16.99	--	--	--

Mini-Spools		Spool Length		Order Code		Price Per Spool					
Dia.			(m)			1+	5+	10+	25+	+	+
<b>Yellow</b>											
3	1	10	121-0480	●	18.85	18.20	17.41	16.99	--	--	--
6	2	7	121-0481	●	18.85	18.20	17.41	16.99	--	--	--
9	3	5	121-0482	●	18.85	18.20	17.41	16.99	--	--	--
12	4	4	121-0483	●	18.85	18.20	17.41	16.99	--	--	--
18	6	3	121-0484	●	18.85	18.20	17.41	16.99	--	--	--
24	8	3	121-0485	●	18.85	18.20	17.41	16.99	--	--	--
<b>Green</b>											
3	1	10	121-0486	●	18.85	18.20	17.41	16.99	--	--	--
6	2	7	121-0487	●	18.85	18.20	17.41	16.99	--	--	--
9	3	5	121-0489	●	18.85	18.20	17.41	16.99	--	--	--
12	4	4	121-0491	●	18.85	18.20	17.41	16.99	--	--	--
18	6	3	121-0492	●	18.85	18.20	17.41	16.99	--	--	--
24	8	3	304-6394	●	17.89	17.01	16.29	14.87	--	--	--
<b>Blue</b>											
3	1	10	121-0493	●	18.85	18.20	17.41	16.99	--	--	--
6	2	7	121-0494	●	18.85	18.20	17.41	16.99	--	--	--
9	3	5	121-0495	●	18.85	18.20	17.41	16.99	--	--	--
12	4	4	121-0496	●	18.85	18.20	17.41	16.99	--	--	--
18	6	3	121-0497	●	18.85	18.20	17.41	16.99	--	--	--
24	8	3	121-0498	●	18.85	18.20	17.41	16.99	--	--	--
<b>White</b>											
3	1	10	121-0499	●	18.85	18.20	17.41	16.99	--	--	--
6	2	7	121-0500	●	18.85	18.20	17.41	16.99	--	--	--
9	3	5	121-0501	●	18.85	18.20	17.41	16.99	--	--	--
12	4	4	121-0502	●	18.85	18.20	17.41	16.99	--	--	--
18	6	3	121-0503	●	18.85	18.20	17.41	16.99	--	--	--
24	8	3	121-0504	●	18.85	18.20	17.41	16.99	--	--	--
<b>Clear</b>											
3	1	10	304-6527	●	17.89	17.01	16.29	14.87	--	--	--
6	2	7	304-6539	●	17.89	17.01	16.29	14.87	--	--	--
9	3	5	304-6540	●	17.89	17.01	16.29	14.87	--	--	--
12	4	4	304-6552	●	17.89	17.01	16.29	14.87	--	--	--
18	6	3	304-6564	●	17.89	17.01	16.29	14.87	--	--	--
24	8	3	304-6576	●	17.89	17.01	16.29	14.87	--	--	--
<b>Green/Yellow Earth</b>											
3	1	10	121-0505	●	18.85	18.20	17.41	16.99	--	--	--
6	2	7	121-0507	●	18.85	18.20	17.41	16.99	--	--	--
9	3	5	121-0508	●	18.85	18.20	17.41	16.99	--	--	--
12	4	4	121-0509	●	18.85	18.20	17.41	16.99	--	--	--
18	6	3	121-0510	●	18.85	18.20	17.41	16.99	--	--	--
24	8	3	121-0511	●	18.85	18.20	17.41	16.99	--	--	--

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

**NEW**

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		

Size		Length		Order Code		Price Per Length	
						1+	5+
<b>Black</b>							
1.6mm	100m	100-8428	●	22.69	21.71		
2.4mm	100m	100-8429	●	26.40	26.20		
3.2mm	100m	100-8430	●	28.94	28.64		
4.8mm	100m	100-8431	●	36.94	36.68		
6.4mm	100m	100-8433	●	44.72	44.40		
9.5mm	100m	100-8434	●	48.69	48.21		
12.7mm	100m	100-8435	●	76.00	73.95		
19.0mm	100m	100-8436	●	207.64	206.14		
25.4mm	50m	100-8437	●	142.05	139.02		
38.1mm	50m	100-8438	●	265.18	263.30		
50.8mm	25m	100-8439	●	155.39	153.57		





3

Cable Accessories

Size	Length	Order Code	Price Per Length	
			1+	5+
<b>Black</b>				
1.6mm	5m	100-8440	2.54	2.41
2.4mm	5m	100-8441	3.12	2.93
3.2mm	5m	100-8442	3.35	3.19
4.8mm	5m	100-8443	3.58	3.22
6.4mm	5m	100-8445	4.13	3.45
9.5mm	5m	100-8446	6.12	5.83
12.7mm	5m	100-8447	8.10	7.42
19.0mm	5m	100-8448	13.18	12.86
25.4mm	5m	100-8449	20.70	20.25
38.1mm	5m	100-8450	55.47	50.91
50.8mm	5m	100-8451	47.03	43.88
<b>Clear</b>				
1.6mm	100m	100-8452	22.95	22.78
2.4mm	100m	100-8453	28.29	27.96
3.2mm	100m	100-8454	30.30	30.11
4.8mm	100m	100-8455	38.21	37.92
6.4mm	100m	100-8457	45.70	44.59
9.5mm	100m	100-8458	51.66	51.30
12.7mm	100m	100-8459	78.28	77.44
19.0mm	100m	100-8460	220.49	217.63
25.4mm	50m	100-8461	145.08	141.01
38.1mm	50m	100-8462	274.69	272.74
50.8mm	25m	100-8463	164.21	163.08
1.6mm	5m	100-8464	2.70	2.51
2.4mm	5m	100-8465	3.22	3.03
3.2mm	5m	100-8466	3.61	3.45
4.8mm	5m	100-8467	4.00	3.52
6.4mm	5m	100-8469	4.39	4.07
9.5mm	5m	100-8471	6.25	5.86
12.7mm	5m	100-8472	8.59	8.07
19.0mm	5m	100-8473	15.85	15.20
25.4mm	5m	100-8474	22.26	21.32
38.1mm	5m	100-8475	41.47	40.88
50.8mm	5m	100-8476	47.88	47.52
<b>Red</b>				
1.6mm	100m	100-8477	22.95	22.78
2.4mm	100m	100-8478	28.29	27.96
3.2mm	100m	100-8479	30.30	30.11
4.8mm	100m	100-8480	38.21	37.92
6.4mm	100m	100-8482	45.70	44.59
9.5mm	100m	100-8483	51.66	51.30
12.7mm	100m	100-8484	78.28	77.44
19.0mm	100m	100-8485	220.49	217.63
25.4mm	50m	100-8486	145.08	141.01
38.1mm	50m	100-8487	274.69	272.74
50.8mm	25m	100-8488	164.21	163.08
1.6mm	5m	100-8489	2.70	2.51
2.4mm	5m	100-8490	3.22	3.03
3.2mm	5m	100-8491	3.61	3.45
4.8mm	5m	100-8492	4.00	3.52
6.4mm	5m	100-8494	4.39	4.07
9.5mm	5m	100-8495	6.25	5.86
12.7mm	5m	100-8496	8.59	8.07
19.0mm	5m	100-8497	15.85	15.20
25.4mm	5m	100-8498	22.26	21.32
38.1mm	5m	100-8499	41.47	40.88
50.8mm	5m	100-8501	47.88	47.52
<b>Yellow</b>				
1.6mm	100m	100-8502	22.95	22.78
2.4mm	100m	100-8503	28.29	27.96
3.2mm	100m	100-8504	30.30	30.11
4.8mm	100m	100-8505	38.21	37.92
6.4mm	100m	100-8506	45.70	44.59
9.5mm	100m	100-8507	51.66	51.30
12.7mm	100m	100-8508	78.28	77.44
19.0mm	100m	100-8509	220.49	217.63
25.4mm	50m	100-8510	145.08	141.01
38.1mm	50m	100-8512	274.69	272.74
50.8mm	25m	100-8513	164.21	163.08
1.6mm	5m	100-8514	2.70	2.51
2.4mm	5m	100-8515	3.22	3.03
3.2mm	5m	100-8516	3.61	3.45
4.8mm	5m	100-8517	4.00	3.52
6.4mm	5m	100-8518	4.39	4.07
9.5mm	5m	100-8519	6.25	5.86
12.7mm	5m	100-8520	8.59	8.07
19.0mm	5m	100-8521	15.85	15.20
25.4mm	5m	100-8522	22.26	21.32
38.1mm	5m	100-8524	41.47	40.88
50.8mm	5m	100-8525	47.88	47.52
<b>White</b>				
1.6mm	100m	100-8526	22.95	22.78
2.4mm	100m	100-8527	28.29	27.96
3.2mm	100m	100-8528	30.30	30.11
4.8mm	100m	100-8529	38.21	37.92
6.4mm	100m	100-8530	45.70	44.59
9.5mm	100m	100-8531	51.66	51.30
12.7mm	100m	100-8532	78.28	77.44
19.0mm	100m	100-8533	220.49	217.63

Size	Length	Order Code	Price Per Length	
			1+	5+
<b>White</b>				
25.4mm	50m	100-8534	145.08	141.01
38.1mm	50m	100-8536	274.69	272.74
50.8mm	25m	100-8537	164.21	163.08
1.6mm	5m	100-8538	2.70	2.51
2.4mm	5m	100-8539	3.22	3.03
3.2mm	5m	100-8540	3.61	3.45
4.8mm	5m	100-8541	4.00	3.52
6.4mm	5m	100-8542	4.39	4.07
9.5mm	5m	100-8543	6.25	5.86
12.7mm	5m	100-8544	8.59	8.07
19.0mm	5m	100-8545	15.85	15.20
25.4mm	5m	100-8546	22.26	21.32
38.1mm	5m	100-8548	41.47	40.88
50.8mm	5m	100-8549	47.88	47.52
<b>Blue</b>				
1.6mm	100m	100-8550	22.95	22.78
2.4mm	100m	100-8551	28.29	27.96
3.2mm	100m	100-8552	30.30	30.11
4.8mm	100m	100-8553	38.21	37.92
6.4mm	100m	100-8554	45.70	44.59
9.5mm	100m	100-8555	51.66	51.30
12.7mm	100m	100-8556	78.28	77.44
19.0mm	100m	100-8557	220.49	217.63
25.4mm	50m	100-8558	145.08	141.01
38.1mm	50m	100-8561	274.69	272.74
50.8mm	25m	100-8562	164.21	163.08
1.6mm	5m	100-8563	2.70	2.51
2.4mm	5m	100-8564	3.22	3.03
3.2mm	5m	100-8565	3.61	3.45
4.8mm	5m	100-8566	4.00	3.52
6.4mm	5m	100-8567	4.39	4.07
9.5mm	5m	100-8569	6.25	5.86
12.7mm	5m	100-8570	8.59	8.07
19.0mm	5m	100-8571	15.85	15.20
25.4mm	5m	100-8573	22.26	21.32
38.1mm	5m	100-8574	41.47	40.88
50.8mm	5m	100-8575	47.88	47.52
<b>Green/Yellow</b>				
1.6mm	100m	100-8576	22.95	22.78
2.4mm	100m	100-8577	28.29	27.96
3.2mm	100m	100-8578	30.30	30.11
4.8mm	100m	100-8579	38.21	37.92
6.4mm	100m	100-8580	45.70	44.59
9.5mm	100m	100-8581	51.66	51.30
12.7mm	100m	100-8582	78.28	77.44
19.0mm	100m	100-8583	220.49	217.63
25.4mm	50m	100-8585	145.08	141.01
38.1mm	50m	100-8586	274.69	272.74
50.8mm	25m	100-8587	164.21	163.08
1.6mm	5m	100-8588	2.70	2.51
2.4mm	5m	100-8589	3.22	3.03
3.2mm	5m	100-8590	3.61	3.45
4.8mm	5m	100-8591	4.00	3.52
6.4mm	5m	100-8592	4.39	4.07
9.5mm	5m	100-8593	6.25	5.86
12.7mm	5m	100-8594	8.59	8.07
19.0mm	5m	100-8595	15.85	15.20
25.4mm	5m	100-8597	22.26	21.32
38.1mm	5m	100-8598	41.47	40.88
50.8mm	5m	100-8599	47.88	47.52
<b>Brown</b>				
1.6mm	100m	100-8600	22.95	22.78
2.4mm	100m	100-8601	28.29	27.96
3.2mm	100m	100-8603	30.30	30.11
4.8mm	100m	100-8604	38.21	37.92
6.4mm	100m	100-8605	45.70	44.59
9.5mm	100m	100-8606	51.66	51.30
12.7mm	100m	100-8607	78.28	77.44
19.0mm	100m	100-8608	220.49	217.63
25.4mm	50m	100-8609	145.08	141.01
38.1mm	50m	100-8610	274.69	272.74
50.8mm	25m	100-8611	164.21	163.08
1.6mm	5m	100-8612	2.70	2.51
2.4mm	5m	100-8613	3.22	3.03
3.2mm	5m	100-8615	3.61	3.45
4.8mm	5m	100-8616	4.00	3.52
6.4mm	5m	100-8617	4.39	4.07
9.5mm	5m	100-8618	6.25	5.86
12.7mm	5m	100-8619	8.59	8.07
19.0mm	5m	100-8620	15.85	15.20
25.4mm	5m	100-8621	22.26	21.32
38.1mm	5m	100-8622	41.47	40.88
50.8mm	5m	100-8623	47.88	47.52

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.

**Adhesive Lined Heatshrink Sleeving**  
3:1 Shrink Ratio



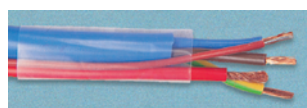
- Adhesive lined Black polyolefin tubing
- Resistant to moisture
- Supplied in 1.2m or 10m lengths

Shrink Temperature 110°C  
Operating temperature -55°C to 125°C

419339,432343

Dia. (mm)			Price Per Length		
Nom.	Shrunk	Length (m)	Order Code	1+	5+
3.2	1	1.2	118-7632	3.74	3.35
4.8	1.6	1.2	118-7633	3.94	3.55
6.4	2.2	1.2	118-7634	4.52	4.13
7.9	2.7	1.2	118-7635	5.08	4.59
9.5	3.2	1.2	118-7637	6.61	6.09
12.7	4.2	1.2	118-7638	7.65	6.87
15	5.2	1.2	118-7639	9.63	7.97
19.1	6.3	1.2	118-7640	11.23	10.45
25.4	8.5	1.2	118-7641	12.76	11.69
30	10.2	1.2	118-7642	15.85	14.48
39	13.5	1.2	118-7643	22.10	20.57
50	17	1.2	118-7644	30.66	28.84
3.2	1	10	101-7298	21.42	18.68
4.8	1.6	10	101-7300	25.91	24.25
6.4	2.2	10	101-7301	31.09	29.10
7.9	2.7	10	101-7302	39.87	37.63
9.5	3.2	10	101-7303	48.99	42.51
12.7	4.2	10	101-7304	53.22	49.74
15	5.2	10	101-7306	68.52	59.89
19.1	6.3	10	101-7307	74.21	68.29

**High Temperature PTFE - 4:1 Shrink Ratio**



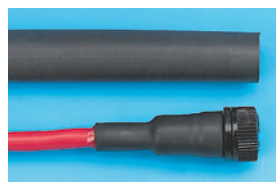
- Natural translucent PTFE 4:1 heat shrink tubing to MIL-1-23053/12, AMS3584 when heated to 327°C
- Non-flammable to ASTM D876
- Ideal for covering rollers, heaters, probes, high temperature terminals etc.
- Good electrical, high temperature, chemical and corrosion

Dielectric strength 1400V/min.  
(35kV/mm) min.  
Operating temperature -67°C to +250°C

208009

1.2m Lengths			Price Per Length					
Dia.		Order Code	1+	5+	10+	25+	+	+
Nom.	Shrunk							
2	0.5	119-1030	14.32	13.24	11.86	9.81	--	--
3.2	0.8	119-1031	14.32	13.20	11.85	9.78	--	--
4.8	1.2	119-1033	14.30	13.19	11.90	9.81	--	--
6.4	1.3	119-1034	14.32	13.24	11.84	9.80	--	--
9.5	2.4	119-1035	9.50	8.79	7.89	6.53	--	--
12.7	3.2	119-1036	11.99	11.06	9.93	8.21	--	--
19	4.8	119-1037	9.55	8.81	7.91	6.55	--	--
25.4	6.3	119-1038	11.02	10.17	9.13	7.55	--	--

**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			Price Per Length					
Dia.		Order Code	1+	5+	10+	25+	+	+
Nom.	Shrunk							
3	1	121-0512	8.50	8.14	7.78	7.58	--	--
6	2	121-0513	11.56	11.13	10.68	10.42	--	--
9	3	121-0514	13.51	13.05	12.50	12.21	--	--
12	4	121-0515	14.45	13.93	13.38	13.05	--	--
18	6	121-0516	17.32	16.73	16.05	15.69	--	--
24	8	121-0517	28.25	27.24	26.14	25.49	--	--
39	13	121-0519	45.73	43.84	41.70	40.36	--	--

**Clear Adhesive Lined - 4:1 Shrink Ratio**



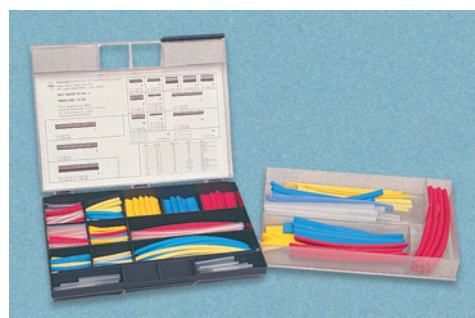
- Excellent mechanical and abrasion resistance
- Good bonding to a wide range of substrates
- Good clarity
- 4:1 shrink ratio
- Minimum shrink temperature +100°C

● Operating temperature -55°C to +75°C

208295

1.2m Lengths			Price Per Length				
Dia.		Order Code	1+	5+	10+	25+	+
Nom.	Shrunk						
4	1	121-0521	11.56	11.16	10.74	10.51	--
8	2	121-0522	18.23	17.58	16.80	16.37	--
12	3	121-0523	20.60	19.95	19.17	18.75	--
16	4	304-7313	22.33	21.33	20.51	18.77	--

**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 - Black, Clear and Red, containing the following:

Dia.		Length	Colours	Quantity
Nom.	Shrunk			
2.4	1.2	50	Black, Red	30 each colour
3.2	1.6	50	Black, Red	30 each colour
3.2	1.6	50	Clear	50
4.8	2.4	50	Black, Red	20 each colour
4.8	2.4	50	Clear	30
4.8	2.4	100	Black, Red	20 each colour
4.8	2.4	200	Black, Red	10 each colour
6.4	3.2	50	Black, Red	10 each colour
6.4	3.2	50	Clear	20
6.4	3.2	100	Black, Red	10 each colour
6.4	3.2	200	Black, Red	10 each colour
9.5	4.7	100	Black	10
9.5	4.7	100	Red	10

224099

Order Code 119-1039 ● Price Each 176.88

Kit No. 3 - Red, Blue, Yellow and Clear, containing the following:

Dia.		Length	Colours	Quantity
Nom.	Shrunk			
2.4	1.2	50	Red, Blue, Yellow, Clear	12 each colour
3.2	1.6	50	Red, Blue, Yellow, Clear	12 each colour
4.8	2.4	50	Red, Clear	12 each colour
4.8	2.4	50	Blue, Yellow	12 each colour
4.8	2.4	150	Red, Clear	12 each colour
4.8	2.4	150	Blue, Yellow	12 each colour
6.4	3.2	50	Red, Clear	12 each colour
6.4	3.2	50	Yellow, Blue	12 each colour
6.4	3.2	150	Red, Clear	8 each colour
6.4	3.2	150	Yellow, Blue	8 each colour
9.5	4.7	50	Yellow	12
9.5	4.7	50	Blue	12
9.5	4.7	50	Red	12
9.5	4.7	50	Clear	12
9.5	4.7	150	Red, Blue, Yellow, Clear	5 each colour

231112

Order Code 119-1040 ● Price Each 186.84

Kit No. 4 - Black, adhesive lined, containing the following:

Dia.		Length	Colours	Quantity
Nom.	Shrunk			
3.2	1.4	100	Black	20
4.8	1.6	100	Black	20
6.4	2.1	100	Black	20
9.5	3.2	150	Black	10
12.7	4.2	150	Black	8
19.0	6.3	150	Black	8
25.4	8.4	150	Black	6

<b>Order Code</b>	<b>Price Each</b>
119-1041 ●	9.77

**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

	<b>Price Each</b>			
<b>Order Code</b>	1+	2+	10+	50+
121-0574 ●	47.98	43.39	41.01	36.91

**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

1.2 Lengths		Mftrs.		Price Per Length				
Nom.	Shrunk	List No.	Order Code	1+	5+	10+	25+	+
1.2	0.6	RT-375-3/64-X-4FT	121-0443 ●	4.56	4.17	3.94	3.78	--
1.6	0.8	RT-375-1/16-X-4FT	121-0444 ●	4.62	4.20	3.97	3.81	--
2.4	1.2	RT-375-3/32-X-4FT	121-0446 ●	4.95	4.46	4.23	4.07	--
3.2	1.6	RT-375-1/8-X-4FT	121-0447 ●	5.34	4.78	4.49	4.30	--
4.8	2.4	RT-375-3/16-X-4FT	121-0448 ●	5.73	5.21	4.85	4.65	--
6.4	3.2	RT-375-1/4-X-4FT	121-0449 ●	6.28	5.70	5.40	5.14	--
9.5	4.8	RT-375-3/8-X-4FT	121-0450 ●	8.14	7.39	6.97	6.71	--
12.7	6.4	RT-375-1/2-X-4FT	121-0451 ●	9.41	8.53	8.01	7.71	--
19.1	9.5	RT-375-3/4-X-4FT	121-0453 ●	11.46	10.38	9.76	9.44	--
25.4	12.7	RT-375-1-X-4FT	121-0454 ●	16.57	14.94	14.16	13.57	--

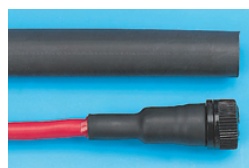
**RP-4800 High Shrink – 4:1 Shrink Ratio**



- 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

1.2 Lengths		Mftrs.		Price Per Length				
Nom.	Shrunk	List No.	Order Code	1+	5+	10+	25+	+
25.4	7	RP-4800-NR1-0	121-0455 ●	41.18	37.27	35.15	33.75	--
50.8	14	RP-4800-NR2-0	121-0456 ●	51.69	46.74	44.14	42.38	--
76.2	20.6	RP-4800-NR3-0	121-0457 ●	78.80	70.02	66.14	63.47	--
101.6	26.7	RP-4800-NR4-0	121-0458 ●	96.54	87.33	82.45	79.13	--

**ATUM Adhesive Lined 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

1.2m Lengths		Mftrs.		Price Per Length				
Nom.	Shrunk	List No.	Order Code	1+	5+	10+	25+	+
3	1	ATUM-3/1-0-4FT	121-0459 ●	13.28	12.92	12.47	12.24	--
4.5	1.5	ATUM-4.5/1.5-0-STK	417-2851 ●	15.47	14.08	13.61	12.66	--
6	2	ATUM-6/2-0-4FT	121-0460 ●	17.67	17.22	16.57	16.21	--
9	3	ATUM-9/3-0-4FT	121-0461 ●	21.84	21.22	20.51	20.12	--
12	4	ATUM-12/4-0-4FT	121-0462 ●	23.86	23.14	22.39	21.94	--
19	6	ATUM-19/6-0-4FT	121-0463 ●	31.02	30.14	29.13	28.55	--
24	8	ATUM-24/8-0-4FT	121-0465 ●	45.64	44.33	42.80	41.92	--
40	13	ATUM-40/13-0-4FT	121-0466 ●	91.43	88.83	85.77	84.08	--

**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

**1.2m Lengths**

1.2m Lengths		Mftrs.		Price Per Length				
Nom.	Shrunk	List No.	Order Code	1+	5+	10+	25+	+
4	1	ATUM-4/1-2-STK	417-2796	16.54	14.49	13.45	10.90	--
8	2	ATUM-8/2-2-STK	121-0557 ●	23.47	20.64	19.20	17.90	--
12	3	ATUM-12/3-2-STK	121-0558 ●	29.00	25.49	23.70	22.10	--
16	4	ATUM-16/4-2-STK	121-0559 ●	31.67	27.86	25.88	24.15	--
24	6	ATUM-24/6-2-STK	121-0560 ●	41.14	36.16	33.62	31.41	--
32	8	ATUM-32/8-2-STK	121-0561 ●	63.73	56.02	52.11	48.60	--

**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

Dia. (mm)		Length (mm)		Qty (pcs)
Nom.	Shrunk			
1.6	0.8			50
2.4	1.2			50
3.2	1.6			45
4.8	2.4			25
6.4	3.2			25
9.5	4.8			15
12.7	6.4			15
19.0	9.5			10

	<b>Price Each</b>			
<b>Order Code</b>	1+	2+	10+	50+
121-0584 ●	74.38	67.25	63.54	57.16



**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)

Di. (mm)	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

Order Code	Price Each			
	1+	2+	10+	50+
121-0585	132.32	129.00	124.31	119.62

**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

**1.2m Lengths**

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1.2m Lengths		Mftrs. List No.	Order Code	Price Per Length				
Di. (mm)	Nom. Shrunk			1+	5+	10+	25+	+
<b>Black</b>								
1.2	0.6	RNF-100-3/64-0-4FT	121-0347	4.07	3.97	3.87	3.78	--
1.6	0.8	RNF-100-1/16-0-4FT	121-0349	3.52	3.45	3.32	3.22	--
2.4	1.2	RNF-100-3/32-0-4FT	121-0351	3.52	3.45	3.32	3.22	--
3.2	1.6	RNF-100-1/8-0-4FT	121-0352	4.07	3.97	3.87	3.78	--
4.8	2.4	RNF-100-3/16-0-4FT	121-0353	4.13	4.04	3.94	3.84	--
6.4	3.2	RNF-100-1/4-0-4FT	121-0354	5.53	5.40	5.27	5.11	--
9.5	4.8	RNF-100-3/8-0-4FT	121-0355	7.23	7.03	6.87	6.71	--
12.7	6.4	RNF-100-1/2-0-4FT	121-0356	8.37	8.14	7.94	7.75	--
19.0	9.5	RNF-100-3/4-0-4FT	121-0357	10.22	9.90	9.67	9.44	--
25.4	12.7	RNF-100-1-0-4FT	121-0358	14.42	14.03	13.67	13.31	--
38.0	19.0	RNF-100-1-1/2-0-4FT	121-0359	25.00	24.28	23.76	23.08	--
51.0	25.4	RNF-100-2-0-4FT	121-0360	37.50	36.42	35.58	34.60	--
76.0	38.0	RNF-100-3-0-STK	121-0362	63.57	59.89	55.24	52.34	--
102.0	51.0	RNF-100-4-0-STK	121-0363	100.61	94.82	87.53	82.87	--
<b>Red</b>								
1.2	0.6	RNF-100-3/64-2-4FT	121-0364	4.07	3.97	3.87	3.78	--
1.6	0.8	RNF-100-1/16-2-4FT	121-0365	3.52	3.45	3.32	3.22	--
2.4	1.2	RNF-100-3/32-2-4FT	121-0366	3.52	3.45	3.32	3.22	--
3.2	1.6	RNF-100-1/8-2-4FT	121-0367	4.07	3.97	3.87	3.78	--
4.8	2.4	RNF-100-3/16-2-4FT	121-0368	4.13	4.04	3.94	3.84	--
6.4	3.2	RNF-100-1/4-2-4FT	121-0369	5.53	5.40	5.27	5.11	--
9.5	4.8	RNF-100-3/8-2-4FT	121-0370	7.23	7.03	6.87	6.71	--
12.7	6.4	RNF-100-1/2-2-4FT	121-0371	8.37	8.14	7.94	7.75	--
19.0	9.5	RNF-100-3/4-2-4FT	121-0372	10.22	9.90	9.67	9.44	--
25.4	12.7	RNF-100-1-2-4FT	121-0374	14.42	14.03	13.67	13.31	--
38.0	19.0	RNF-100-1-1/2-2-4FT	121-0375	25.00	24.28	23.76	23.08	--
51.0	25.4	RNF-100-2-2-4FT	121-0378	37.50	36.42	35.58	34.60	--
<b>Yellow</b>								
1.2	0.6	RNF-100-3/64-4-4FT	121-0379	4.07	3.97	3.87	3.78	--
1.6	0.8	RNF-100-1/16-4-4FT	121-0380	3.52	3.45	3.32	3.22	--
2.4	1.2	RNF-100-3/32-4-4FT	121-0381	3.52	3.45	3.32	3.22	--
3.2	1.6	RNF-100-1/8-4-4FT	121-0382	4.07	3.97	3.87	3.78	--
4.8	2.4	RNF-100-3/16-4-4FT	121-0383	4.13	4.04	3.94	3.84	--
6.4	3.2	RNF-100-1/4-4-4FT	121-0384	5.53	5.40	5.27	5.11	--

**1.2m Lengths**

Di. (mm)	Nom. Shrunk	Mftrs. List No.	Order Code	1+	5+	10+	25+	+
<b>Yellow</b>								
9.5	4.8	RNF-100-3/8-4-4FT	121-0386	7.23	7.03	6.87	6.71	--
12.7	6.4	RNF-100-1/2-4-4FT	121-0387	8.37	8.14	7.94	7.75	--
19.0	9.5	RNF-100-3/4-4-4FT	121-0388	10.22	9.90	9.67	9.44	--
25.4	12.7	RNF-100-1-4-4FT	121-0389	14.42	14.03	13.67	13.31	--
38.0	19.0	RNF-100-1-1/2-4-4FT	121-0390	25.00	24.28	23.76	23.08	--
50.8	25.4	RNF-100-2-4-4FT	304-5584	35.67	34.15	33.33	30.62	--
<b>Green</b>								
1.2	0.6	RNF-100-3/64-5-4FT	121-0391	4.07	3.97	3.87	3.78	--
1.6	0.8	RNF-100-1/16-5-4FT	121-0392	3.52	3.45	3.32	3.22	--
2.4	1.2	RNF-100-3/32-5-4FT	304-5614	3.34	3.21	3.12	2.90	--
3.2	1.6	RNF-100-1/8-5-4FT	121-0393	4.07	3.97	3.87	3.78	--
4.8	2.4	RNF-100-3/16-5-4FT	121-0394	4.13	4.04	3.94	3.84	--
6.4	3.2	RNF-100-1/4-5-4FT	121-0395	5.53	5.40	5.27	5.11	--
9.5	4.8	RNF-100-3/8-5-4FT	121-0396	7.23	7.03	6.87	6.71	--
12.7	6.4	RNF-100-1/2-5-4FT	121-0398	8.37	8.14	7.94	7.75	--
19.0	9.5	RNF-100-3/4-5-4FT	121-0399	10.22	9.90	9.67	9.44	--
25.4	12.7	RNF-100-1-5-4FT	121-0400	14.42	14.03	13.67	13.31	--
51.0	25.4	RNF-100-2-5-4FT	121-0402	37.50	36.42	35.58	34.60	--
<b>Blue</b>								
1.2	0.6	RNF-100-3/64-6-4FT	304-5717	3.68	3.58	3.48	3.39	--
1.6	0.8	RNF-100-1/16-6-4FT	121-0404	3.52	3.45	3.32	3.22	--
2.4	1.2	RNF-100-3/32-6-4FT	121-0405	3.52	3.45	3.32	3.22	--
3.2	1.6	RNF-100-1/8-6-4FT	121-0406	4.07	3.97	3.87	3.78	--
4.8	2.4	RNF-100-3/16-6-4FT	121-0408	4.13	4.04	3.94	3.84	--
6.4	3.2	RNF-100-1/4-6-4FT	121-0410	5.53	5.40	5.27	5.11	--
9.5	4.8	RNF-100-3/8-6-4FT	121-0411	7.23	7.03	6.87	6.71	--
12.7	6.4	RNF-100-1/2-6-4FT	121-0412	8.37	8.14	7.94	7.75	--
19.0	9.5	RNF-100-3/4-6-4FT	121-0413	10.22	9.90	9.67	9.44	--
25.4	12.7	RNF-100-1-6-4FT	121-0414	14.42	14.03	13.67	13.31	--
38.1	19.1	RNF-100-1-1/2-6-4FT	304-5810	23.77	22.74	22.24	20.38	--
51.0	25.4	RNF-100-2-6-4FT	121-0416	37.50	36.42	35.58	34.60	--
<b>White</b>								
1.2	0.6	RNF-100-3/64-9-4FT	304-5833	3.88	3.72	3.62	3.34	--
1.6	0.8	RNF-100-1/16-9-4FT	121-0417	3.52	3.45	3.32	3.22	--
2.4	1.2	RNF-100-3/32-9-4FT	121-0418	3.52	3.45	3.32	3.22	--
3.2	1.6	RNF-100-1/8-9-4FT	121-0419	4.07	3.97	3.87	3.78	--
4.8	2.4	RNF-100-3/16-9-4FT	121-0420	4.13	4.04	3.94	3.84	--
6.4	3.2	RNF-100-1/4-9-4FT	121-0421	5.53	5.40	5.27	5.11	--
9.5	4.8	RNF-100-3/8-9-4FT	121-0422	7.23	7.03	6.87	6.71	--
12.7	6.4	RNF-100-1/2-9-4FT	121-0423	8.37	8.14	7.94	7.75	--
19.0	9.5	RNF-100-3/4-9-4FT	121-0424	10.22	9.90	9.67	9.44	--
25.4	12.7	RNF-100-1-9-4FT	121-0425	14.42	14.03	13.67	13.31	--
38.0	19.0	RNF-100-1-1/2-9-4FT	121-0426	25.00	24.28	23.76	23.08	--
<b>Clear</b>								
1.2	0.6	RNF-100-3/64-X-4FT	121-0429	4.07	3.97	3.87	3.78	--
1.6	0.8	RNF-100-1/16-X-4FT	121-0430	3.52	3.45	3.32	3.22	--
2.4	1.2	RNF-100-3/32-X-4FT	121-0431	3.52	3.45	3.32	3.22	--
3.2	1.6	RNF-100-1/8-X-4FT	121-0432	4.07	3.97	3.87	3.78	--
4.8	2.4	RNF-100-3/16-X-4FT	121-0433	4.13	4.04	3.94	3.84	--
6.4	3.2	RNF-100-1/4-X-4FT	121-0434	5.53	5.40	5.27	5.11	--
9.5	4.8	RNF-100-3/8-X-4FT	121-0435	7.23	7.03	6.87	6.71	--
12.7	6.4	RNF-100-1/2-X-4FT	121-0436	8.37	8.14	7.94	7.75	--
19.0	9.5	RNF-100-3/4-X-4FT	121-0437	10.22	9.90	9.67	9.44	--
25.4	12.7	RNF-100-1-X-4FT	121-0438	14.42	14.03	13.67	13.31	--
38.0	19.0	RNF-100-1-1/2-X-4FT	121-0441	25.00	24.28	23.76	23.08	--
51.0	25.4	RNF-100-2-X-4FT	121-0442	37.50	36.42	35.58	34.60	--

**Bulk Spools**

Di. (mm)	Nom. Shrunk	Length	Mftrs. List No.	Order Code	1+	2+	10+	50+
<b>Black</b>								
3.2	1.6	150m	RNF-100-1/8-0-SP	121-0575	312.58	282.01	267.69	240.38
4.8	2.4	150m	RNF-100-3/16-0-SP	121-0576	323.25	286.57	271.96	244.32
6.4	3.2	75m	RNF-100-1/4-0-SP	121-0577	207.77	187.91	177.50	159.69
9.5	4.8	121m	RNF-100-3/8-0-FSP	121-0578	429.76	388.71	367.13	330.38
12.7	6.4	91m	RNF-100-1/2-0-FSP	121-0581	379.21	343.01	323.94	291.55
19.0	9.5	60m	RNF-100-3/4-0-FSP	121-0582	301.15	272.41	257.24	231.53
25.4	12.7	60m	RNF-100-1-0-FSP	121-0583	393.53	356.00	336.18	302.55

**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 °Cto +150 °C(1000hrs)

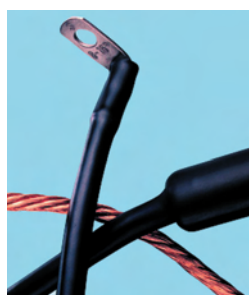
Mfrs. List No.	Inside Diameter (mm)	Maximum Recovered After Heating (mm)	Spool Quantity (m)	Order Code
HFT5000-12/6-0-FEC-10M	12	6	500	496-7239
HFT5000-20/10-0-FEC-10M	20	10	400	496-7240
HFT5000-40/20-0-FEC-5M	30	15	400	496-7252
HFT5000-40/20-0-FEC-5M	40	20	300	496-7264
HFT5000-50/25-0-FEC-5M	50	25	200	496-7276
HFT5000-60/30-0-FEC-5M	60	30	200	496-7288
HFT5000-70/35-0-FEC-5M	70	35	150	496-7290

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Order Code	Price Each	
	1+	5+
496-7239	47.98	45.57
496-7240	56.86	54.03
496-7252	70.05	66.53
496-7264	42.67	40.56
496-7276	52.28	49.67
496-7288	56.38	53.54
496-7290	77.70	73.82

**SST Heat Shrink Tubing**

Thick-wall, Mastic lined



- Excellent insulating, abrasion resistance and strain relief protection
- Highly resistant to moisture, fungus and weathering
- Waterproof and environmental protection in underwater or underground applications
- Mastic coated
- Temperature range -40°C to +105°C
- Supplied in 1.2m lengths

Approvals: ABS (American Bureau of shipping), DNV (Det Norske Veritas), Lloyd's (Register of Shipping)

Mfrs. List No.	Internal Dia. as supplied	Internal Dia. after recovery	Wall Thickness after recovery	Order Code
SST-48-07/226	19.1	5.6	2.4	496-6880
SST-48-13/226	33.1	9.6	3.0	496-6892
SST-48-17/226	43.2	12.7	3.6	496-6909
SST-48-27/226	68.6	22.9	3.9	496-6910
SST-48-45/226	114.3	44.5	3.9	496-6922

all dimensions in millimeters (mm)

374335

Order Code	Price Each	
	1+	5+
496-6880	19.66	18.68
496-6892	25.81	24.51
496-6909	28.68	27.24
496-6910	48.34	45.93
496-6922	86.81	82.48

**RPR Adhesive Lined, Heat Shrinkable Wraparound Sleeve**



RPR wrap around adhesive lined sleeve incorporates a stainless steel channel which is slid over rails on the sleeve, keeping wrap the around sleeve in position during installation. Upon heating the sleeve shrinks and the adhesive coating melts into the interstices.

- Provides watertight installation
- Each size covers a range of cable sizes
- Rail can easily be removed once adhesive has set
- Abrasion and corrosion resistant
- Can be cut to length
- Supplied in 1m lengths

Mfrs. List No.	Application range	Internal Dia. (min) as supplied	Internal Dia. (max) after recovery	Wall Thickness after recovery	Order Code
RPR-34/10-1000/ADH-0	12 - 21	34	10	2.4	496-6739
RPR-53/13-1000/ADH-0	15 - 32	53	13	2.3	496-6740
RPR-84/20-1000/ADH-0	23 - 50	84	20	2.3	496-6752
RPR-143/36-1000/ADH-0	42 - 86	143	36	2.3	496-6764

all dimensions in millimeters (mm)

374292

Order Code	Price Each	
	1+	5+
496-6739	105.43	100.16
496-6740	115.81	110.02
496-6752	127.95	121.57
496-6764	154.06	146.34

**BSTS Thick Wall Tubing**



- 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

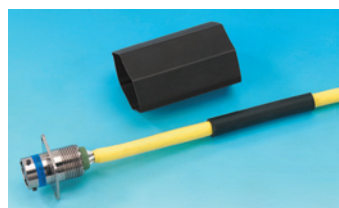
Mfrs. List Nos:	BSTS-04X4	121-0551	BSTS-17X4	121-0553	BSTS-45X4	121-0556
	BSTS-07X4	121-0552	BSTS-27X4	121-0554		

227245

**1.2m Lengths**

Nom.	Dia. Shrunken	Nom. Wall Thick	Order Code	Price Per Length				
				1+	5+	10+	25+	+
10.2	3.9	1.5	121-0551	16.76	14.91	12.86	11.23	--
19.1	5.6	2.4	121-0552	18.39	16.47	14.13	12.40	--
43.2	12.7	3	121-0553	26.79	24.12	20.60	18.10	--
68.6	22.9	3.9	121-0554	44.66	40.26	34.34	30.14	--
114.3	44.5	3.9	121-0556	82.19	74.25	63.21	55.40	--

**HSR-FR Semi-Rigid High Shrink Ratio**



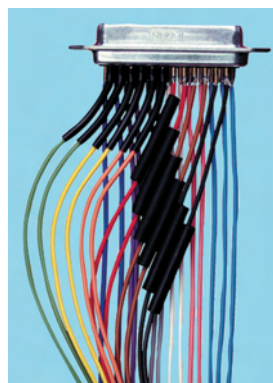
- Black, semi-rigid tubing
- High expansion ratio designed to accommodate large size differences
- Tough and durable
- Offers excellent insulation and abrasion protection
- Flame retardant
- 5:6:1 shrink ratio
- ABS, DNV and Lloyds approved
- Minimum shrink temperature +120°C
- Operating temperature -55°C to +90°C

227246

**250mm Lengths**

Dia. Nom.	Mfrs. Shrunken List No.	Order Code	Price Each					
			1+	5+	10+	25+	+	
15.3	3.9	HRSR-060FR-10	121-0538	44.24	39.78	35.19	32.32	--
31.8	6.1	HRSR-125FR-10	121-0539	49.57	44.56	39.52	36.20	--
44.5	8	HRSR-175FR-10	121-0540	59.31	53.35	47.20	43.36	--
76.2	19	HRSR-300FR-10	121-0544	79.88	72.03	63.60	58.39	--
101.6	22.9	HRSR-400FR-10	121-0545	133.62	120.63	108.98	100.06	--

**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

- High Temperature performance that meets or exceeds military and industrial standards
- Protection from the majority of industrial solvents, fuels and chemicals
- Recommended maximum temperature for use as a primary insulator: 135°C
- Minimum Shrink temperature: 155°C
- Minimum full recovery temperature: 175°C
- Approved to VDE 0341 Pt 905, CSA LR3 1929 OFT 600V 150°C, AMS-DTL-23053/8, Def-Stan 59-97 Type 3
- UL Listed E35586 VW-1 600V 150°C
- Available in 1.2m lengths
- Colour - Black

Size	Minimum Expanded	Maximum Recovered After Heating	Recovered Wall Thickness After Heating
3/64"	1.2mm (0.046")	0.6mm (0.023")	0.25mm±0.05 (0.010±0.002)
1/16"	1.6mm (0.063")	0.8mm (0.031")	0.25mm±0.05 (0.010±0.002)
3/32"	2.4mm (0.046")	1.2mm (0.046")	0.25mm±0.05 (0.010±0.002)
1/8"	3.2mm (0.125")	1.6mm (0.062")	0.25mm±0.05 (0.010±0.002)
3/16"	4.8mm (0.187")	2.4mm (0.093")	0.25mm±0.05 (0.010±0.002)
1/4"	6.4mm (0.250")	3.2mm (0.125")	0.33mm±0.05 (0.013±0.002)
3/8"	9.5mm (0.375")	4.8mm (0.187")	0.33mm±0.05 (0.013±0.002)
1/2"	12.7mm (0.500")	6.4mm (0.250")	0.33mm±0.05 (0.013±0.002)

338601

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.



Size	Mftrs. List No.	Order Code	1+	5+	Price Each
3/64"	RW-175-3/64-0-STK	496-6594	4.69	4.46	
1/16"	RW-175-1/16-0-STK	496-6600	4.92	4.69	
3/32"	RW-175-3/32-0-STK	496-6612	5.99	5.70	
1/8"	RW-175-1/8-0-STK	496-6624	6.64	6.31	
3/16"	RW-175-3/16-0-STK	496-6636	9.31	8.85	
1/4"	RW-175-1/4-0-STK	496-6648	11.72	11.13	
3/8"	RW-175-3/8-0-STK	496-6650	15.66	14.88	
1/2"	RW-175-1/2-0-STK	496-6661	25.29	24.02	

**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

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

Mftrs. List No.	Order Code	1+	5+	10+	25+	+
DR-25-1/8-0	341-5478	117.05	113.40	97.37	77.98	--
DR-25-3/16-0	341-5480	128.19	114.06	108.80	85.14	--
DR-25-1/4-0	341-5491	138.64	123.17	113.65	99.65	--
DR-25-3/8-0	341-5508	163.29	144.74	117.75	108.81	--
DR-25-1/2-0	341-5510	135.07	120.24	107.19	92.91	--
DR-25-3/4-0	341-5521	129.71	115.16	111.04	81.65	--
DR-25-1-0	341-5533	160.59	142.82	128.08	112.16	--

**SST Adhesive Sealing - 3:1 Shrink Ratio**



- Semi-rigid, Black polymer tubing with thermoplastic adhesive lining
- Positive splice sealing method offers protection under adverse environmental conditions
- Thermoplastic adhesive provides water sealing and mechanical strain relief
- Provides excellent insulation and abrasion resistance
- Flame retardant

- 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 No.	Dia. Nom.	Shrink	Length mm	Nom. Wall Thickness	Order Code
SST-6-04/FR/RS	10.2	3.9	150	1.5	121-0546
SST-6-07/FR/RS	19.1	5.6	150	2.4	121-0547
SST-12-17/FR/RS	43.2	12.7	300	3.0	121-0548
SST-12-27/FR/RS	68.6	22.9	300	3.9	121-0549
SST-18-45/FR/SS	114.3	44.5	450	3.9	121-0550

Mftrs. List No.	Order Code	1+	5+	10+	25+	+
SST-6-04/FR/RS	121-0546	6.41	5.63	5.18	4.56	--
SST-6-07/FR/RS	121-0547	13.83	12.24	11.13	10.03	--
SST-12-17/FR/RS	121-0548	19.92	17.51	16.01	14.35	--
SST-12-27/FR/RS	121-0549	31.02	27.80	24.97	22.39	--
SST-18-45/FR/SS	121-0550	79.81	71.84	64.29	57.68	--

**SCL - Semi-Rigid Encapsulant-lined 3:1 Shrink Ratio**

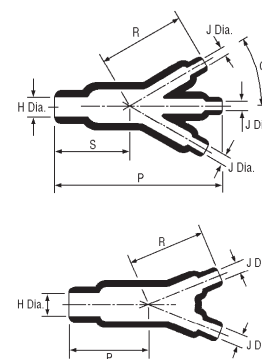


- Semi-rigid encapsulant lined Black polyolefin tubing
- Meltable inner wall creates a moisture resistant encapsulation
- Provides protection against abrasion, vibration and flexing
- Excellent strain relief and insulation of weak areas
- 3:1 shrink ratio
- UL (E85381) recognised, MIL-DTL-23053/4 approved

- Operating temperature -55°C to +110°C
- Minimum shrink temperature +125°C
- Minimum full recovery temperature +135°C

1.2m Lengths				Order Code		Price Per Length	
Dia. Nom	Shrunk	Mftrs. List No.	Order Code	1+	5+	10+	25+
3.2	0.6	SCL-1/8-0-4FT	121-0524	8.10	7.49	6.97	6.77
4.8	1.5	SCL-3/16-0-4FT	121-0525	10.16	9.50	8.69	8.14
6.4	2	SCL-1/4-0-4FT	121-0526	11.65	10.87	10.22	9.05
9.5	3.4	SCL-3/8-0-4FT	121-0527	14.03	12.92	12.08	11.43
12.7	5	SCL-1/2-0-4FT	121-0528	15.72	14.58	13.57	12.30
19.1	8	SCL-3/4-0-4FT	121-0529	20.44	19.04	18.52	18.16
25.4	10.2	SCL-1-0-4FT	121-0530	31.44	28.90	26.82	24.93

**Heat Shrink Moulded Transitions 2:1 Shrink Ratio**



(after heating)

- Provides strain relief sealing and mechanical protection on cable harness assemblies
- -55°C to +135°C operating temperature
- Commercial grade

Expanded as supplied (min)		Recovered after heating (max)						Mftrs. List No.	Order Code
H	J	H	J	P	R	S	C		
<b>Y Transitions</b>									
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
<b>3 to 1 transitions</b>									
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

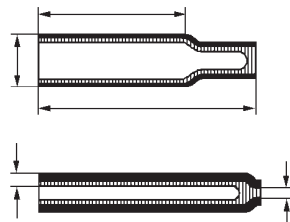
Mftrs. List No.	Order Code	1+	100+	250+	500+
382A012-15-0	769-307	13.85	11.37	10.46	9.95
382A023-15-0	769-319	21.01	17.20	15.88	15.09
382A034-15-0	769-320	42.38	34.74	32.04	30.46
462A011-15-0	769-332	22.49	19.56	18.18	--
462A023-15-0	769-344	30.87	26.84	26.13	--



**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 (D) Expanded as Supplied	(d) Recovered after heating	Length (P) Open Barrel as Supplied	(L) Overall as Supplied	(W) Wall Thickness Recovered after Heating	Mftrs. List No.
5.7	1.27	17	30	1.20	ESCAP-NO.1-C1-X/0-30MM
7.4	1.65	17	30	1.52	ESCAP-NO.2-B9-X/0-30MM
10.8	2.41	23	40	1.91	ESCAP-NO.1-B8-X/0-40MM

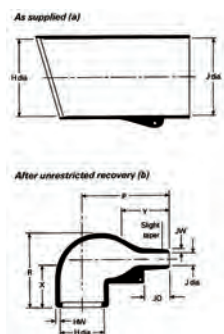
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100 Per Pack Mftrs. List No.	Order Code		Price Per Pack			
	Clear (X)	Black (O)	1+	5+	10+	25+
ES-CAP-NO.1-C1-X/0-30MM	134-764	121-0314	14.30	13.42	12.18	--
ES-CAP-NO.2-B9-X/0-30MM	134-776	134-806	19.15	17.64	15.81	15.62
ES-CAP-NO.3-B8-X/0-40MM	134-788	134-818	41.71	38.24	35.22	34.78

**Heatshrink Boots General Purpose**



Right-angled, lipped boot



When used in conjunction with a suitable adaptor or rear mounting, these right-angled boots provide strain relief, mechanical protection and sealing when used in conjunction with S1125 adhesive.

- 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

Approvals UL224, Def Stan 59-97 Issue 3 Type DA, BS-G198-5-DA

Order Code	H (a)	H (b)	J (a)	J (b)	P (b)	R (b)
496-6533	24.0	10.4	24.0	5.6	25.0	25.0
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
496-6569	36.0	22.4	36.0	8.4	46.0	38.0
496-6570	43.0	28.2	43.0	9.9	55.0	45.0
496-6582	60.0	35.1	60.0	15.7	80.0	54.0

(a) As supplied, (b) After recovery  
all dimensions in millimeters (mm)

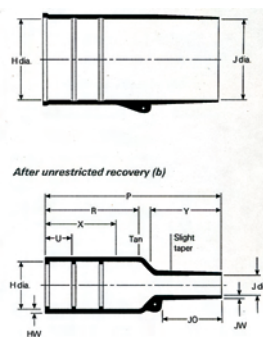
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Order Code	Mftrs. List No.	1+	5+
496-6533	222K121-3-0	17.32	16.44
496-6545	222K132-3-0	19.40	18.42
496-6557	222K142-3-0	23.47	22.30
496-6569	222K152-3-0	29.62	28.16
496-6570	222K163-3-0	29.72	28.22
496-6582	222K174-3-0	35.77	33.98

**Heatshrink Boots General Purpose**



Straight, lipped boot



When used in conjunction with a suitable adaptor or rear mounting, these straight angled boots provide strain relief, mechanical protection and sealing when used in conjunction with S1125 adhesive.

**NEW**

- 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

Approvals UL224, Def Stan 59-97 Issue 3 Type DA, BS-G198-5-DA

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
496-6508	36.0	22.4	36.0	8.4	80.0	42.0
496-6510	43.0	28.2	43.0	9.9	99.0	61.0
496-6521	60.0	35.1	60.0	15.7	130.0	72.0

(a) As supplied, (b) After recovery all dimensions in millimeters (mm)

374364

Order Code	Mftrs. List No.	1+	5+
496-6478	202K121-3-0	14.97	14.22
496-6480	202K132-3-0	16.73	15.88
496-6491	202K142-3-0	21.48	20.41
496-6508	202K153-3-0	22.85	21.71
496-6510	202K163-3-0	25.91	24.61
496-6521	202K174-3-0	32.26	30.66

**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.

**NEW**

- 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	2.0	121-0588
ENC-22/ADH	8 - 17	20	55	2.8	121-0589
ENC-33/ADH	17 - 30	35	90	3.2	121-0590
ENC-44/ADH	30 - 45	55	143	3.9	121-0591
ENC-48/ADH	45 - 65	75	150	3.3	496-6715
ENC-55/ADH	65 - 95	100	162	3.8	496-6727

all dimensions in millimeters (mm)

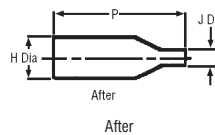
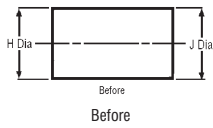
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Order Code	1+	5+
121-0588	1.99	1.86
121-0589	2.57	2.44
121-0590	4.23	4.07
121-0591	7.03	6.74
496-6715	8.30	7.88
496-6727	10.19	9.67

**Heat Shrink Connector Boots**



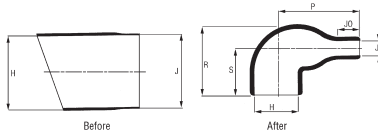
- Provides mechanical protection and connector-cable strain relief
- No lip provides direct installation onto connector thread
- Flame retardant
- -55°C to +135°C operating temperature



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

Mftrs. List No.	Order Code	1+	100+	250+	+
202A121-15-0	769-265	9.39	8.16	7.27	--
202A132-15-0	769-277	12.51	10.87	10.14	--
202A142-15-CS-0	769-289	14.05	12.25	11.95	--
202A153-15-0	769-290	16.07	13.99	13.62	--

**Heat Shrink Connector Boots Right Angle**

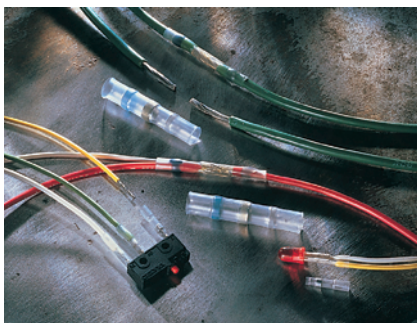


- Provides mechanical protection and strain relief
- No lip provides direct installation onto connector thread
- Flame retardant
- Operating temperature -55°C to +135°C
- Commercial grade

Expanded dia (min)		Recovered dia (max)			Mftrs. List No.	Order Code
H	J	H	J	P		
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

Mftrs. List No.	Order Code	1+	100+	250+	500+
222A121-15-0	121-0320	12.17	11.00	9.90	9.15
222A132-15-0	134-971	15.42	13.73	12.38	11.58
222A142-15-0	134-983	17.35	15.47	13.89	12.79
222A152-15-0	134-995	19.92	17.77	15.97	14.74

**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

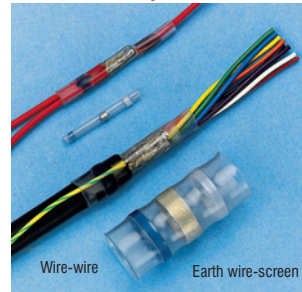
**Applications:-**

- 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

**Wire-Wire and Wire-Screen Splices**



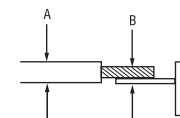
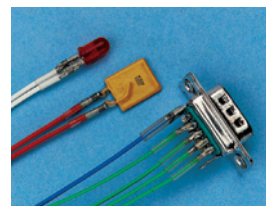
- SolderSleeve™ provides an environmental sealed, insulated and strain relieved solder connection
- Suitable for splicing wires and screens
- Repairing broken/sheered wires
- Splicing ground wire to screen for earthing

Expanded (Min)		Recovered (Max.)		
H	J	H	J	P
24	24	9.9	5.3	38
28	28	14.2	6.6	51
31	31	17.8	7.4	67
36	36	21.9	8.6	74

Wire-wire and wire-screen, 100 per box	Total Wire Diameter (mm)		Total CSA of Conductors (mm <sup>2</sup> )		Length	Mftrs. List No.	Order Code
	min	max	min.	max.			
0.8	1.7	0.22	0.72	26	B-155-3801	119-6243	
1.0	1.95	0.40	0.95	26	B-155-3802	119-6244	
1.3	2.7	0.82	1.75	42	B-155-3803	119-6245	
2.0	4.5	1.45	3.6	42	B-155-3805	119-6246	
3.0	6	3.05	5.5	42	B-155-3806	119-6247	
4.0	7	5.00	—	42	B-155-3807	119-6249	
<b>Wire-screen only, 50 per box</b>							
4.5	8.7	—	—	42	B-155-3808	119-6251	
7.0	10.7	—	—	42	B-155-3811	119-6252	
8.9	13	—	—	42	B-155-3813	119-6253	

Order Code	1+	5+	10+	100+
119-6243	100.91	87.04	63.28	58.52
119-6244	100.38	87.75	69.43	64.22
119-6245	107.09	92.77	74.25	68.19
119-6246	113.76	99.34	71.45	66.63
119-6247	117.11	103.22	84.11	77.96
119-6249	137.20	120.01	97.23	89.71
119-6251	105.40	93.52	73.92	69.01
119-6252	118.81	110.64	83.98	81.38
119-6253	194.06	180.59	156.37	147.48

**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

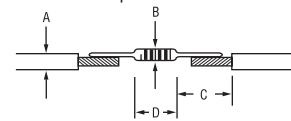
A (max.)	B	Sleeve Length	Mftrs. List No.	Order Code
2.0	0.9-1.5	16	B-155-1501	119-6241
2.9	1.1-2.3	16	B-155-1502	119-6242
3.2	1.6-2.8	14.5	CWT-1503.	769-034
4.5	1.8-3.8	14.5	CWT-1504.	769-046

Mftrs. List No.	Order Code	1+	5+	10+	25+
B-155-1501	119-6241	163.99	151.32	114.32	113.93
B-155-1502	119-6242	180.69	170.99	161.16	150.38
CWT-1503.	769-034	189.39	180.56	146.48	--
CWT-1504.	769-046	189.39	180.56	146.48	--

**In-Line Component Terminators**



- SolderSleeve™ terminates, insulates and strain relieves
- Suitable for diodes, resistors, reed switches, temp. sensors
- Supplied in two mating halves to encapsulate component





A	B	C	D	Sleeve Length(max.)	Mfrs. List No.	Order Code
1.1-1.5	1.8-2.5	8.5±0.5	6.5-8.0	22	B-155-2001	119-6240

100 Pairs Per Pack	Price Per Pack			
Order Code	1+	5+	10+	25+
119-6240	96.06	76.95	71.94	62.46

**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. 14 O.D. 20		

Mfrs. List No.	Order Code	1+	5+	10+	+
MJ-950	353-3992	96.69	89.10	73.02	--

**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	1600W	
Dimensions (WxDxH)	240 x 89 x 200mm	
Weight	700g	

Heat Gun Plug	Mfrs. List No.	Order Code	1+	3+
UK	HL1610S	799-7663	138.79	132.25
Schuko	HL1610SEUR	799-7680	338.62	310.36

Reflector Nozzles	Mfrs. List No.	Order Code	13.08	11.97
Standard	070519	311-6797		
75mm Wide	073015	311-6815	18.33	16.83
Soldering	074616	311-6852	15.95	--

Reduction Nozzles	Mfrs. List No.	Order Code	15.85	14.68
9mm Diameter	070618	815-0788		
14mm Diameter	070717	311-6803	9.33	8.40
20mm Diameter	070816	815-0770	15.85	14.68

**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	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	2000W		
Dimensions (WxDxH)	260 x 90 x 205mm		
Weight	860g		

Heat Gun Plug	Mfrs. List No.	Order Code	1+	3+
UK	HL2010E EUR	799-7698	338.62	310.36
Schuko	HL2010E EUR	799-7698	338.62	310.36

Reflector Nozzles	Mfrs. List No.	Order Code	13.08	11.97
Standard	070519	311-6797		
75mm Wide	073015	311-6815	18.33	16.83
Soldering	074616	311-6852	15.95	--

Reduction Nozzles	Mfrs. List No.	Order Code	15.85	14.68
9mm Diameter	070618	815-0788		
14mm Diameter	070717	311-6803	9.33	8.40
20mm Diameter	070816	815-0770	15.85	14.68

**Three Speed HL2005E**



- Vario switch operates 3 position speed control and continuously variable temperature
- Air filter prevents debris entering the interior of the device
- Rubber standing pads provide a stable base and prevent the tool from slipping and tipping
- 35V motor with twin air turbine
- Thermal release automatically cuts off the device in the event of overheating
- Available in 230/240V, UK and European Schuko plugs and 110V without a plug
- Steinel range of accessories are compatible

Operating Voltage	230/240V	110V	Output	2000W	1500W	Temperature Range	+50°C to +600°C	+50°C to +600°C	Airflow	250-500 l/min	250-500 l/min	Weight	920g	920g
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	Order Code	1+	5+	15+	+
230/240V UK Plug	368-7880	217.26	201.96	171.36	--
230/240V European Plug	368-7892	217.26	201.96	171.36	--
110V (No plug)	368-7909	215.13	201.96	171.36	--

**Three Speed HL2305E**



- Vario switch operates 3 position speed control and continuously variable temperature
- Thermo control display displays temperature
- Air filter prevents debris entering the interior of the device
- Rubber standing pads provide a stable base and prevent the tool from slipping

- and tipping
- 35V motor with twin air turbine
- Thermal release automatically cuts off the device in the event of overheating
- Available in 230/240V, UK and European Schuko plugs
- Steinel range of accessories are compatible

Operating Voltage	230/240	Output	2000W	Temperature Range	+50°C to +650°C	Airflow	250-500 l/min	Weight	920g
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	Order Code	1+	5+	15+	+
230/240V UK Plug	368-7910	315.18	287.64	257.04	--
230/240V Schuko Plug	368-7922	315.18	287.64	257.04	--

**Two Speed and Temperature Control HG2000E**



- Hand-held or horizontal bench mount
- Adjustable temperature and air flow
- Uses same range of reduction nozzles as HL500/HL1802E above
- Fitted with UK 13 AMP Plug

Air Flow (I)	300 l/min	Output	max.
Air Flow (II)	550 l/min	Operating Voltage	230/240ac
Temperature Range	100-600°C	Weight	770g

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.



Order Code	Price Each			
	1+	5+	15+	+
583-182	336.45	319.44	295.77	--

**Weldy Pic Hot Air Tool**



- 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

WELDY



Operating Voltage	Output	Temperature Range	Airflow	Weight
230V		+350°C to +500°C	350/500 l/min	500g

Order Code	Price Each				
	1+	5+	10+	+	
230V UK Plug	357-6346	177.48	159.12	146.88	--

**Weldy Pro Hot Air Tool**



- 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

WELDY



Operating Voltage	Output	Temperature Range	Airflow	Weight
230V	1800W	+100°C to +550°C	250-550 l/min	570g
120V	1400W	+80°C to +550°C	250-550 l/min	570g

Order Code	Price Each				
	1+	5+	10+	+	
230V UK Plug	317-8596	218.40	206.46	187.86	--
230V European Schuko Plug	317-8602	214.20	198.90	180.19	--
120V (No Plug)	317-8614	218.40	206.46	187.86	--

**Weldy Plus Hot Air Tool**



- 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

WELDY



Operating Voltage	Output	Temperature Range	Airflow	Weight
230V	2000W	+80°C to +650°C	200-550 l/min	620g
120V	1600W	+80°C to +650°C	200-550 l/min	620g

Order Code	Price Each				
	1+	5+	10+	+	
230V UK Plug	317-8626	349.44	327.18	301.74	--
230V European Schuko Plug	317-8638	342.72	315.18	290.70	--
120V (No Plug)	317-8640	349.44	327.18	301.74	--

**Weldy Accessories**



- All accessories can be used with the 'Weldy Pro' and the 'Weldy Plus guns'



	Order Code	Price Each			
		1+	5+	10+	+
Welding nozzle	317-8651	31.20	28.62	25.44	--
Shrink reflector nozzle	317-8663	21.84	19.86	18.12	--
Glass protection nozzle	317-8675	21.84	19.86	18.12	--
Wide slot nozzle	317-8687	21.84	19.86	18.12	--
Reduction nozzle	317-8699	17.58	15.90	13.77	--
Overlap welding nozzle	317-8705	31.20	28.62	25.44	--
Pressure roller	317-8717	19.68	17.76	15.90	--
Solder sleeve reflector	317-8729	74.88	69.90	63.54	--

230383

**Cable Sleeving**

**Binding Sleeves 'Helsyn'**



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 <sup>12</sup> Ω/cm
Maximum Cable Dia.	2.4	Internal dia.	1.2
	3		1.5
	4		2
	6		3
	10		5
	15		7.5
Length	20	Suitable Tool Prongs	'SS'
	20		'SS'
	20		'SS'
	25		'SS' or 'S'
	25		'S'
	25		'K'

224103

**100 Per Pack**

Max. Cable Dia.	Int Dia.	Mftrs. List No.	Order Code	1+	10+	25+	50+
2.4	1.2	H12X20 BLACK	116-9015	5.48	5.39	5.17	4.88
2.4	1.2	H12X20 BLUE	116-9016	5.48	5.39	5.17	4.88
2.4	1.2	H12X20 GREEN	424-950	5.48	5.39	5.17	4.88
2.4	1.2	H12X20 PINK	116-9017	5.48	5.39	5.17	4.88
2.4	1.2	H12X20 RED	116-9018	5.48	5.39	5.17	4.88
3	1.5	H15X20 BLACK	116-9019	4.76	4.76	4.50	4.19
3	1.5	H15X20 BLUE	116-9020	4.70	4.69	4.44	4.22
3	1.5	H15X20 PINK	116-9021	4.76	4.76	4.50	4.19
3	1.5	H15X20 RED	116-9022	4.70	4.69	4.44	4.22
4	2	H20X20 BLACK	116-9023	4.83	4.72	4.54	4.28
4	2	H20X20 BLUE	116-9024	5.51	5.48	5.29	4.98
4	2	H20X20 BROWN	116-9027	5.51	5.48	5.29	4.98
4	2	H20X20 PINK	116-9028	5.39	5.36	5.10	4.88
4	2	H20X20 RED	116-9029	5.51	5.48	5.29	4.98
6	3	H30X25 BLACK	116-9030	5.36	5.29	5.07	4.85
6	3	H30X25 BLUE	116-9031	5.51	5.45	5.32	5.04
6	3	H30X25 BROWN	116-9032	5.51	5.45	5.32	5.04
6	3	H30X25 PINK	116-9033	5.36	5.29	5.07	4.85
6	3	H30X25 RED	116-9034	5.51	5.45	5.32	5.04
10	5	H50X25 BLACK	116-9035	9.67	9.54	9.36	8.88
10	5	H50X25 BLUE	116-9036	9.92	9.80	9.58	9.14
10	5	H50X25 PINK	116-9037	9.92	9.80	9.58	9.14
10	5	H50X25 RED	116-9039	9.92	9.80	9.58	9.14
15	7.5	H75X25 BLACK	116-9041	15.79	15.72	15.40	14.62
15	7.5	H75X25 RED	116-9042	16.18	16.13	15.84	15.03

**500 Per pack**

2.4	1.2	H12X20 BLACK 500	116-8912	22.47	20.63	18.30	16.47
2.4	1.2	H12X20 PINK 500	116-8913	22.47	20.63	18.30	15.53
2.4	1.2	H12X20 RED 500	116-8914	22.47	20.63	18.30	16.47
3	1.5	H15X20 BLACK 500	116-8917	20.98	19.12	16.73	15.06
3	1.5	H15X20 PINK 500	116-8919	20.98	19.12	16.73	15.06
3	1.5	H15X20 RED 500	116-8920	20.98	19.12	16.73	15.06
4	2	H20X20 BLACK 500	116-8921	22.58	20.70	18.58	16.66
4	2	H20X20 BLUE 500	116-8922	22.58	20.70	18.58	16.66

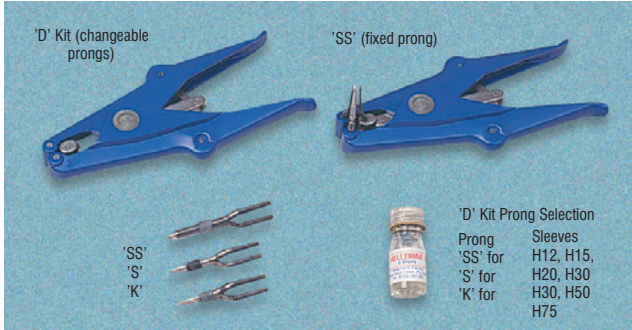
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Cable Accessories

100 Per Pack		Order Code	Price Each			
Max. Cable Dia.	Int Mftrs. Dia. List No.		1+	10+	25+	50+
<b>500 Per pack</b>						
4	2 H20X20 PINK 500	116-8923	22.18	20.38	18.24	16.41
4	2 H20X20 RED 500	116-8924	22.24	20.41	18.27	16.44
6	3 H30X25 BLACK 500	116-8925	23.43	21.48	19.37	17.39
6	3 H30X25 BLUE 500	116-8926	24.60	22.59	20.35	18.30
6	3 H30X25 PINK 500	116-8928	23.43	21.48	19.37	17.39
6	3 H30X25 RED 500	116-8929	24.60	22.59	20.35	18.30
10	5 H50X25 BLACK 500	116-8930	41.83	38.40	36.70	34.87
10	5 H50X25 RED 500	116-8931	46.98	42.34	38.93	36.60
15	7.5 H75X25 BLACK 500	116-8932	63.85	58.34	54.18	48.76

**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	51.89	47.40	44.65
D KIT	151-080	106.08	97.35	89.54

**Lubricant**

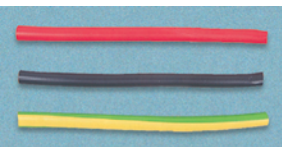


Recommended when fitting sleeves with the 'SS' and 147-754 tools. It is a non-conductor and can be used with all types of rubber and PVC parts. Supplied in a 10oz (284ml) bottle.

224105

Order Code	1+	4+	8+
101-619	8.79	7.98	7.20

**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 on 100m spools

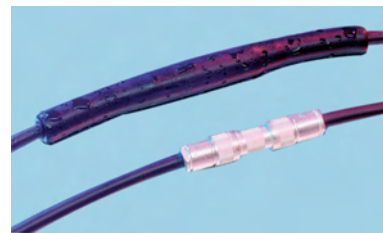


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Nom. Bore Dia.		Colour	Order Code	Price Per Spool		
1+	3+			10+		
1 mm	Black	105-7925	11.20	10.51	9.76	
1 mm	Red	105-7926	11.20	10.51	9.76	
2 mm	Green/Yellow	105-7927	11.20	10.51	9.76	
2 mm	Black	105-7928	11.20	10.51	9.76	
2 mm	Brown	105-7929	11.20	10.51	9.76	
2 mm	Blue	105-7930	11.20	10.51	9.76	
2 mm	Grey	105-7931	11.20	10.51	9.76	
2 mm	Red	105-7932	11.20	10.51	9.76	
3 mm	Green/Yellow	105-7933	12.95	12.11	10.55	
3 mm	Black	105-7934	12.95	12.11	10.55	
3 mm	Brown	105-7936	12.95	12.11	10.55	
3 mm	Blue	105-7937	12.95	12.11	10.55	
3 mm	Grey	105-7938	12.95	12.11	10.55	
3 mm	Red	105-7939	12.95	12.11	10.55	

Nom. Bore Dia.		Colour	Order Code	Price Per Spool		
1+	3+			10+		
4 mm	Green/Yellow	105-7940	15.72	15.01	14.09	
4 mm	Black	105-7941	15.72	15.01	14.09	
4 mm	Brown	105-7942	15.72	15.01	14.09	
4 mm	Blue	105-7943	15.72	15.01	14.09	
4 mm	Grey	105-7944	15.72	15.01	14.09	
4 mm	Red	105-7945	15.72	15.01	14.09	
6 mm	Green/Yellow	105-7946	34.31	33.04	31.54	
6 mm	Black	105-7948	34.31	33.04	31.54	
6 mm	Brown	105-7949	34.31	33.04	31.54	
6 mm	Blue	105-7950	34.31	33.04	31.54	
6 mm	Grey	105-7951	34.31	33.04	31.54	
6 mm	Red	105-7952	34.31	33.04	31.54	
6 mm	Black	105-7953	34.31	33.04	31.54	
7 mm	Black	105-7954	53.45	51.04	48.47	
7 mm	Red	105-7955	53.45	51.04	48.47	
8 mm	Black	105-7956	49.70	48.47	45.31	
8 mm	Red	105-7957	49.70	48.47	45.31	
9 mm	Black	105-7958	50.03	49.31	48.56	
10 mm	Black	105-7961	50.03	49.31	48.56	
10 mm	Red	105-7962	51.85	50.39	49.22	

**RayOLOn Sealing Kits**



Re-usable 'heatless' roll-on sealing sleeves designed to protect connectors, cable splices and other cylindrical sub straights from harsh elements like salt spray and moisture.

- Reusable sealing solution
- Cold applied- ideal for hazardous areas where heating devices are prohibited
- Roll on to seal, roll off to re-enter
- Protection of connectors and splices against corrosion
- Sealed Geltek sealing strips
- Temperature rating -40°C to +70°C

Kit contains: Roll-on sleeve, gel strip, cable tie, core tube, installation instruction.

Mftrs. List No.	Dimensions Dia x Length (mm)	Recommended use range (mm)	Connection Length (mm)	Order Code
LNCL-11-125-GK	13 x 125	6 - 17	75	496-6934
LNCL-11-205-GK	13 x 205	6 - 17	150	496-6946
LNCL-12-140-GK	14.2 x 140	12 - 23	100	496-6958
LNCL-12-240-GK	14.2 x 240	12 - 23	175	496-6960
LNCL-13-155-GK	19 x 155	18 - 30	100	496-6971
LNCL-13-305-GK	19 x 305	18 - 30	225	496-6983
LNCL-14-185-GK	25.9 x 185	25 - 38	125	496-6995
LNCL-14-355-GK	25.9 x 355	25 - 38	250	496-7008

374273

Order Code	1+	5+
496-6934	48.34	45.93
496-6946	50.84	48.30
496-6958	50.55	48.01
496-6960	54.03	51.33
496-6971	55.95	53.15
496-6983	65.85	62.56
496-6995	77.79	73.92
496-7008	91.63	87.04

**Gremflex® Plastic Braided Sleeving**



- Supplied on coils or reels
- Operating temperature -50°C to +150°C
- Melting point +250°C

- High Flexibility
- High abrasion & good chemical resistance
- Self Extinguishing
- Halogen Free
- Easy to Install
- 0.25mm Monofilament
- Passes flame resistance requirements to CEI 332-1 and FMVSS 302 (Type A) i2 according to NFF 16-101
- Colours available: Black, Grey, Red, Yellow, Blue

361875



Nominal Dia. (mm)	Max Inside Dia (mm)	Range of use advised (mm)	Order Code	1+	5+	10+	20+
<b>Black (10m Reel)</b>							
30	52	27 to 45	507-1483	34.96	28.61	26.24	24.71
38	64	33 to 55	507-1495	44.59	36.49	33.46	31.51
48	96	43 to 85	507-1501	65.10	53.25	48.82	45.99
62	88	57 to 80	507-1513	71.12	58.20	53.35	50.29
75	108	65 to 98	507-1525	86.81	71.02	65.10	61.29
100	145	85 to 140	507-1537	192.92	157.83	144.68	136.32
<b>Grey (10m Reel)</b>							
30	52	27 to 45	507-1549	34.96	28.61	26.24	24.71
38	64	33 to 55	507-1550	44.59	36.49	33.46	31.51
48	96	43 to 85	507-1562	65.10	53.25	48.82	45.99
62	88	57 to 80	507-1574	71.12	58.20	53.35	50.22
75	108	65 to 98	507-1586	86.81	71.02	65.10	61.29
100	145	85 to 140	507-1598	192.92	157.83	144.68	136.22

Nominal Dia. (mm)	Max Inside Dia (mm)	Range of use advised (mm)	Order Code	1+	5+	10+	20+
<b>Black (25m Coil)</b>							
30	52	27 to 45	507-1604	55.80	--	--	--
38	64	33 to 55	507-1616	44.59	36.49	33.46	31.51
48	96	43 to 85	507-1628	97.65	--	--	--
62	88	57 to 80	507-1630	71.12	58.20	53.35	50.22
75	108	65 to 98	507-1641	113.69	--	--	--
100	145	85 to 140	507-1653	192.92	157.83	144.68	136.22
<b>Grey (25m Coil)</b>							
30	52	27 to 45	507-1665	55.80	--	--	--
38	64	33 to 55	507-1677	73.24	--	--	--
48	96	43 to 85	507-1689	65.10	53.25	48.82	45.99
62	88	57 to 80	507-1690	71.12	58.20	53.35	50.22
75	108	65 to 98	507-1707	86.81	71.02	65.10	61.29
100	145	85 to 140	507-1719	192.92	157.83	144.68	136.22

**Heat Resisting Braided Fibreglass Sleeving**



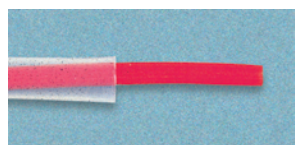
- Polyurethane impregnated braided fibreglass sleeving
- Conforms to **NFC93-941, IEC684-1&2, DIN40620 and EN60684-1**
- Operating temperature -30°C to +155°C, peaks at +200°C

Nom. bore Diameter	Tolerance (mm)	No. Wall Thickness
2	±0.20	0.25
4	±0.25	0.25
6	±0.30	0.3

208309

5m Coil	Nom. Bore Dia.	Colour	Order Code	1+	5+	10+	25+	+
<b>2.0mm</b>	Black		305-3374	4.56	--	--	--	--
	Red		305-3386	4.60	--	--	--	--
	Yellow		305-3398	4.10	4.05	--	--	--
	Green		305-3404	4.60	--	--	--	--
	Blue		305-3416	4.60	--	--	--	--
<b>4.0mm</b>	Natural		305-3428	4.60	--	--	--	--
	Black		305-3430	5.73	5.58	--	--	--
	Red		305-3441	5.73	5.49	--	--	--
	Yellow		305-3453	5.73	5.58	--	--	--
	Green		305-3465	5.73	5.45	5.44	--	--
<b>6.0mm</b>	Blue		305-3477	5.73	5.58	--	--	--
	Natural		305-3489	5.73	5.58	--	--	--
	Black		305-3490	8.28	8.03	7.44	--	--
	Red		305-3507	8.28	8.03	7.44	--	--
	Natural		305-3519	8.28	8.03	7.40	7.07	--

**PTFE Sleeving**



PTFE sleeving has excellent insulation properties with the benefit of resisting melting from soldering irons when making terminations. It can be used in areas of high temperature for covering wires, connectors, components etc. It is resistant to virtually all corrosive chemicals.

The tubing meets **BS2848 Type 6** and is recognised to **UL224**.

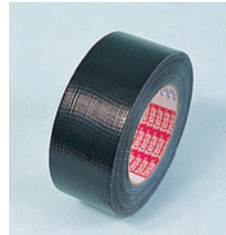
Operating temperature	-65°C to +250°C	Colour	Natural
Dielectric strength	35kV/mm min.		

208095

5m Coil	Nom. Bore Dia. mm	Wall AWG	Thickness	Order Code	1+	5+	10+	25+
	0.71	22	0.25	119-1042	5.34	4.98	--	--
	0.86	20	0.3	119-1043	5.83	5.50	4.98	--
	1.07	18	0.3	119-1045	6.05	5.76	5.53	5.44
	1.35	16	0.3	119-1046	6.91	6.58	6.16	6.00
	1.50	15	0.3	119-1047	9.08	8.65	8.10	7.18
	1.93	13	0.3	119-1048	8.16	7.86	7.50	7.35
	2.69	10	0.3	119-1049	9.17	8.69	8.13	7.22
	3.00	9	0.38	119-1050	7.96	7.78	7.54	7.21

**Insulating Tape**

**Waterproof Cloth 'Gaffer' Tape**

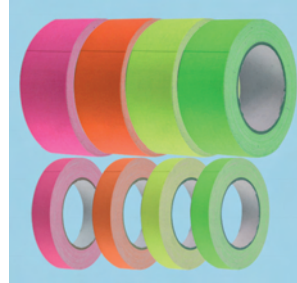


Heavy duty, cloth backed adhesive tape with high tack adhesive for use where normal PVC tape would lose adhesion due to the ingress of water. Often used to fix cables to floor/walls etc. and for general repairs. Supplied on 50m rolls. 50mm wide. Shrink-wrapped for easy storage and display.

372278.255376

Description	Order Code	1+	3+
Black	816-9764	11.95	10.87
Blue	816-9802	11.95	10.87
Brown	816-9829	11.95	10.87
Red	816-9799	11.95	10.87
Silver	816-9772	11.95	10.87
White	816-9780	11.95	10.87
Yellow	816-9810	11.95	10.87

**Fluorescent Gaffer Tape**



Highly durable, cloth backed adhesive tape available in fluorescent colours.

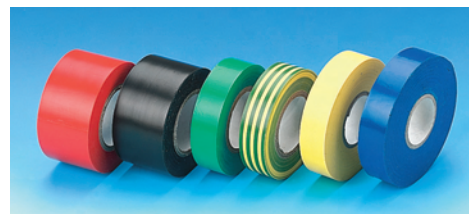


- Extremely adhesive to any clean, dry surface
- Easy tear
- UV reactive (glows under black light)
- Shrink wrapped for protection and storage
- Available sizes 48mm x 50m and 24mm x 25m
- Available in pink, orange, yellow and green

416538.408163

Colour	Order Code	1+	3+
<b>48mm x 25m</b>			
Pink	101-5994	22.43	21.78
Orange	101-5995	22.43	21.78
Yellow	101-5996	22.43	21.78
Green	101-5997	22.43	21.78
<b>24mm x 25m</b>			
Pink	101-5998	12.21	11.46
Orange	101-5999	12.21	11.46
Yellow	101-6000	12.21	11.46
Green	101-6001	12.21	11.46

**Coloured**



- Electrical grade 19mm and 38mm wide PVC insulating tape conforming to **BS3924** and **IEC454**
- Available in Black, Red, Yellow, Blue, Green, White, Grey, Brown and Green/Yellow

Colour	Roll Size 19mm x 20m	Roll Size 19mm x 33m	Roll Size 38mm x 20m	Roll Size 50mm x 33m
	Order Code	Order Code	Order Code	Order Code
Black	152-346	152-355	305-1766	101-4788
Red	152-347	152-356	305-1778	101-4789
Yellow	152-348	152-357	305-1780	--
Blue	152-349	152-358	--	101-4790

Compliant Non-compliant Limited stock - RoHS replacement available **RoHS**





	Roll Size	Roll Size	Roll Size	Roll Size
Green	152-350	152-359	-	-
White	152-351	152-360	305-1810	101-4792
Grey	152-352	152-361	305-1821	-
Brown	152-353	152-362	305-1833	-
Green/Yellow	152-354	152-363	305-1845	101-4793

Nominal thickness	0.15	Dielectric breakdown	40kV/mm
Operating temperature	°C0 to +80°C	Elongation	170%

224107

Roll Size	Order Code	1+	5+	10+	25+
19mm x 20m	All Colours	3.24	2.91	2.40	2.07
19mm x 33m	All Colours	3.60	3.45	3.15	2.70
38mm x 20m	All Colours	5.19	4.89	4.44	3.90
50mm x 33m	All Colours	5.44	4.92	--	--

Coloured, Boxed

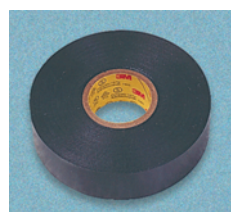


PVC insulating tape packed in a box containing 10 Black, 2 Red, 2 White, 2 Yellow, 2 Blue, 2 Brown, 2 Green and 2 Green/Yellow - Total 24 rolls of 19mm x 5m tape. The tape conforms to BS3924 and IEC 454.

224108

24 Per Box Order Code	1+	10+	50+	100+
305-1754	29.55	27.90	25.11	21.75

Type 33+ Scotch Vinyl Plastic (Black)



The Scotch 33+ is a high quality flame retardant, all weather electrical insulating tape designed to perform in a continuous temperature environment up to 105°C.

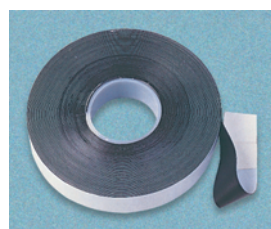
Applications include primary electrical insulation (especially in moisture and solvent vapour areas) for all wire and cable joints up to 600V. The tape forms a protective jacket giving excellent abrasion resistance for high voltage cable joints and termination. The tape conforms to BS3924 and IEC 454.

Nominal Thickness	0.19	Colour	Black
Operating Temperature	-18°C to +105°C	Dielectric Breakdown	10kV/mm
Dimensions	19mm x 20m		

224109, 401190

Order Code	1+	10+	50+	100+
143-078	10.23	9.24	8.25	8.14

2517 - 'Self-Amalgamating' (Black)



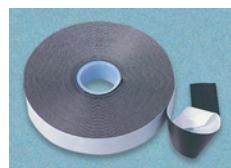
A conformable self-amalgamating tape based on ethylene propylene rubber (EPR) in two widths, 19mm or 25mm. Suitable for jointing and repairing a wide range of power and distribution cables. Can also be used for corrosion protection and water-proofing of many electrical components. The tape conforms to BS3924 and IEC454.

Nominal Thickness	0.75	Dimensions	19mmx10m, 19mmx10m
Operating Temperature	-40°C to +100°C (130°C Overload)	Colour	Black
Dielectric Breakdown	36kV/mm	Mfrs. List No.	2517

207965, 401193

Roll Size (WxL)	Order Code	1+	10+	48+	96+
19mm x 10m	217-098	14.04	12.90	11.82	11.34
25mm x 10m	217-104	23.64	21.57	19.47	17.01

Type 23 Scotch 'Self-Amalgamating' (Black)



The Scotch 23 electrical tape is a highly conformable self-amalgamating EPR based tape which simplifies high voltage and water resistant insulation because of its easy build-up and high stretch. It is suitable for use with all solid dielectric cable insulations. The tape conforms to BS3924 and IEC 454.

Nominal Thickness	0.762	Dielectric Breakdown	31.9kV/mm
Operating Temperature	90°C (130°C overload)	Colour	Black
Dimensions	19mm x 9m		

224110, 401197

Order Code	Price Each
143-079	25.14

Cable Markers

ID Pro Plus Printer



Printer

- Durable handheld dot-matrix printer designed to print cable/wire marking labels on site
- Prints a legible, professional and permanent legend
- Quick and easy to load and use
- Comes complete with battery, charger and ribbon
- Prints single labels or a batch of automatically serialised labels
- Rugged anti-shock bumpers and tough ABS casing ensures its durability in the field
- Operates via rechargeable NiCad battery, 240Vac mains or 12V car adapter
- Instructions printed on the reverse of unit
- Legend repeat function

Self laminating wrap around cable/wire marking labels

- White vinyl printable area
- Clear over laminating tail ensures label will stay on cable and gives extra protection to the legend
- Labels can be applied after cable/wire termination

Heat shrinkable sleeves (3:1 Shrink ratio)

- Heat shrinkable polyolefin sleeves which can be shrunk to fit the required diameter or left unshrunk
- Easy to squeeze open and apply once printed
- Available in white and yellow

Cloth labels

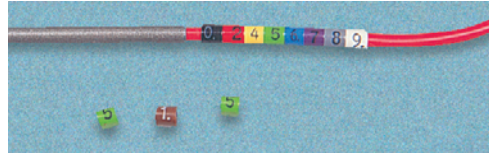
- White cloth labels
- Flexible for applying to cables/wires, curved surfaces or for use as outlet/termination identification

233696

	Order Code	Price Each/Per Pack
ID Pro Plus Printer	340-9089	764.74
Black Ribbon	340-9090	13.07
Battery Pack	340-9107	74.45
<b>Self Laminating Labels - White</b>		
Size (mm)	Max Cable Dia.	Pack Quantity
12.7 x 19.05	3mm	250
25.4 x 25.4	5mm	250
12.7 x 31.75	6mm	250
25.4 x 31.75	6mm	250
25.4 x 63.5	14mm	100
38.1 x 63.5	14mm	100
25.4 x 101.6	24mm	100
38.1 x 101.6	24mm	100
<b>Heat Shrink Sleeves - 100 Per Pack</b>		
Size (mm)	Cable Dia.	Colour
25.4 x 6	1.57 - 2.79	White
25.4 x 8.5	2.38 - 3.81	White
25.4 x 11.2	3.18 - 5.46	White
25.4 x 16.4	4.78 - 8.13	White
25.4 x 21.6	6.35 - 11.43	White
25.4 x 6	1.57 - 2.79	Yellow
25.4 x 8.5	2.38 - 3.81	Yellow
25.4 x 11.2	3.18 - 5.46	Yellow
25.4 x 16.4	4.78 - 8.13	Yellow
25.4 x 21.6	6.35 - 11.43	Yellow

Cloth Labels - White		Order Code	Price Each/Per Pack 1+
Size (mm)	Pack Quantity		
12.7 x 7	500	340-9193	43.71
7 x 25.4	500	340-9200	49.43
38.1 x 7	250	340-9211	56.08
10.16 x 25.4	500	340-9223	61.75
12.7 x 12.7	500	340-9235	55.15
25.4 x 12.7	500	340-9247	61.94
38.1 x 12.7	500	340-9259	72.12

**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 are white and have the legend marked in black. Applicator tools available to fit sizes Z7, Z11 & Z13.

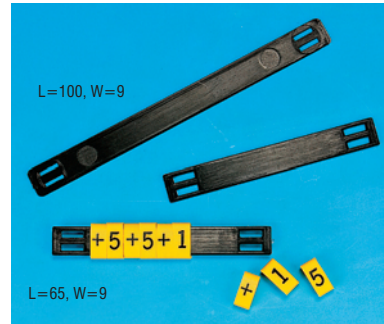
Maximum operating temperature 100°C, 100 Markers per pack

Legend	Colour	Z5' Size	Z7' Size	Z11' Size	Z13' Size
		Overall	Overall	Overall	Overall
		Cable Dia.	Cable Dia.	Cable Dia.	Cable Dia.
		1.5-2.0mm	2.0-3.2mm	2.9-4.7mm	3.4-5.7mm
0	Black	141-555	141-565	141-575	780-8887
1	Brown	119-6387	119-6392	119-6395	780-8895
2	Red	141-557	141-567	141-577	780-8909
3	Orange	119-6389	119-6393	119-6396	780-8917
4	Yellow	119-6391	119-6394	119-6397	780-8925
5	Green	141-560	141-570	141-580	780-8933
6	Blue	141-561	141-571	141-581	780-8941
7	Violet	141-562	141-572	141-582	780-8950
8	Grey	141-563	141-573	141-583	780-8968
9	White	141-564	141-574	141-584	780-9476
+	White	146-604	146-607	146-610	780-9492
-	White	146-605	146-608	146-611	780-9506
⚡	White	146-606	146-609	146-612	780-9514
A	White	146-613	146-639	146-665	780-9522
B	White	146-614	146-640	146-666	780-9530
C	White	146-615	146-641	146-667	780-9549
D	White	146-616	146-642	146-668	780-9557
E	White	146-617	146-643	146-669	780-9565
F	White	146-618	146-644	146-670	780-9573
G	White	146-619	146-645	146-671	780-9581
H	White	146-620	146-646	146-672	780-9590
I	White	146-621	146-647	146-673	780-9603
J	White	146-622	146-648	146-674	780-9611
K	White	146-623	146-649	146-675	780-9620
L	White	146-624	146-650	146-676	780-9638
M	White	146-625	146-651	146-677	780-9646
N	White	146-626	146-652	146-678	780-9654
O	White	146-627	146-653	146-679	780-9662
P	White	146-628	146-654	146-680	780-9670
Q	White	146-629	146-655	146-681	780-9689
R	White	146-630	146-656	146-682	780-9697
S	White	146-631	146-657	146-683	780-9700
T	White	146-632	146-658	146-684	780-9719
U	White	146-633	146-659	146-685	780-9727
V	White	146-634	146-660	146-686	780-9735
W	White	146-635	146-661	146-687	780-9743
X	White	146-636	146-662	146-688	780-9751
Y	White	146-637	146-663	146-689	780-9760
Z	White	146-638	146-664	146-690	780-9778
/	White	780-8526	780-8569	780-8623	780-9964
)	White	780-8534	780-8577	780-8631	780-9972
Blank	White	780-8542	780-8585	780-8640	780-9980
.	White	780-8550	780-8593	780-8658	780-9999

224111

Description	Price Per Pack	
	1+	5+
<b>All Order Codes</b>	3.18	3.02
<b>Applicator Tool</b>	<b>Best-Nr.</b>	<b>Price Each</b>
Z7	235-684	18.33
Z11	235-696	18.33
Z13	814-8066	19.89

**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	929-347	A	929-475	N	929-608
1	929-359	B	929-487	O	929-610
2	929-360	C	929-499	P	929-621
3	929-372	D	929-505	Q	929-633
4	929-384	E	929-517	R	929-645
5	929-396	F	929-529	S	929-657
6	929-402	G	929-530	T	929-669
7	929-414	H	929-542	U	929-670
8	929-426	I	929-554	V	929-682
9	929-438	J	929-566	W	929-694
+	929-440	K	929-578	X	929-700
-	929-451	L	929-580	Y	929-712
/	929-463	M	929-591	Z	929-724
⚡	961-930				

208226

Markers	Pack Qty.	Order Code	Price Per Pack			
			1+	5+	10+	25+
<b>All Order Codes</b>	500		12.21	11.73	10.83	8.64
<b>65mm Carrierstrip</b>	100	929-736	9.12	8.82	8.34	7.11
<b>100mm Carrierstrip</b>	100	929-748	11.91	11.43	10.83	9.12

**Chevron Cut Helagrip Mk2 Kits**



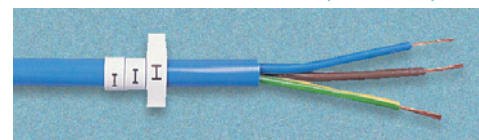
- Convenient 18 compartment storage box
- Three size options:  
0-0 for cable dia. 1.27 - 2.0mm  
1-3 for cable dia. 1.3 - 2.8mm  
2-5 for cable dia. 2.25 - 5.0mm
- Kit contains 4500 markers, 250 each of following:  
0-9 inclusive (coloured), R, S, T, +, -, L, N, ⚡ (white)
- Contents individually refillable from standard Helagrip Mk2 range

H=45, W=265, D=170

208265

Size	Cable Diameter	Order Code	Price Each		
			1+	10+	25+
0-0	1.27mm-2mm	120-1699	113.51	104.10	92.46
1-3	1.3mm-2.8mm	120-1701	113.51	104.10	92.46
2-5	2.25mm-5mm	120-1702	113.51	104.10	92.46

**Heat Shrink Markers**



Three sizes of heat shrink markers manufactured in White radiation crosslinked polyolefin with Black legend. Flame retardant to **ASTMD876** with a shrink ratio of 3:1 when heated to and above 120°C. Covers a diameter range of 3 to 12mm.

Operating temperature -55°C to +135°C

Legend	3/1 Size	6/2 Size	12/4 Size	3/1 Size	6/2 Size	12/4 Size
	Nom. Dia. 3mm	Nom. Dia. 6mm	Nom. Dia. 12mm	Nom. Dia. 3mm	Nom. Dia. 6mm	Nom. Dia. 12mm
0	443-931	444-327	444-716	C	444-080	444-479
1	443-943	444-339	444-728	D	444-091	444-480
2	443-955	444-340	444-730	E	444-108	444-492
3	443-967	444-352	444-741	F	444-110	444-509
4	443-979	444-364	444-753	G	444-121	444-510
5	443-980	444-376	444-765	H	444-133	444-522
6	443-992	444-388	444-777	I	444-145	444-534
7	444-005	444-390	444-789	J	444-157	444-546
8	444-017	444-406	444-790	K	444-169	444-558
9	444-029	444-418	444-807	L	444-170	444-560
+	444-030	444-420	444-819	M	444-182	444-571
-	444-042	444-431	444-820	N	444-194	444-583
/	158-008	158-010	158-021	O	444-200	444-595
⚡	444-054	444-443	444-832	P	444-212	444-601
A	444-066	444-455	444-844	Q	444-224	444-613
B	444-078	444-467	444-856	R	444-236	444-625
				S	444-248	444-637

Compliant  
Non-compliant  
RoHS  
Limited stock - RoHS replacement available



	3/1 Size Nom. Dia. 3mm	6/2 Size Nom. Dia. 6mm	12/4 Size Nom. Dia. 12mm		3/1 Size Nom. Dia. 3mm	6/2 Size Nom. Dia. 6mm	12/4 Size Nom. Dia. 12mm
T	444-250	444-649	445-034	X	444-297	444-686	445-071
U	444-261	444-650	445-046	Y	444-303	444-698	445-083
V	444-273	444-662	445-058	Z	444-315	444-704	445-095
W	444-285	444-674	445-060				

208073

100 Per Pack		Price Per Pack				
Size	Order Code	1+	5+	10+	25+	+
3/1	All Order Codes	5.86	5.61	5.48	4.91	--
6/2	All Order Codes	6.90	6.68	6.46	5.61	--
12/4	All Order Codes	8.91	8.60	8.35	6.87	--

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.

**NEW**

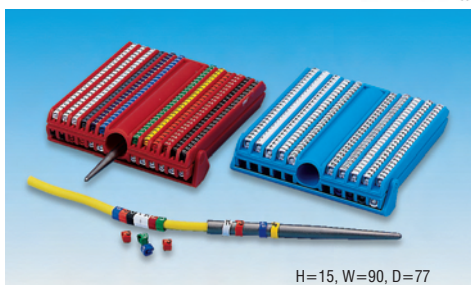
- Easy to apply with or without the applicator tool
- Only 3 sizes needed to cover cables from 1.5mm-6mm
- Each WIC marker interlocks with the next to form perfectly aligned multi-mark codes
- Unique applicator tool (sold separately) makes application easy especially in confined spaces
- Markers are 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	0.5mm - 1.5mm	10 strips of 20 marks	Multi Colour	0,1,2,3,4,5,6,7,8,9
872-1653	1.5mm - 2.5mm	10 strips of 20 marks	Multi Colour	0,1,2,3,4,5,6,7,8,9
872-1661	4.0mm - 6.0mm	10 strips of 10 marks	Multi Colour	0,1,2,3,4,5,6,7,8,9
872-1670	0.5mm - 1.5mm	10 strips of 20 marks	Black on Yellow	A,E,L,N,R,S,T,+, -, Earth
872-1688	1.5mm - 2.5mm	10 strips of 20 marks	Black on Yellow	A,E,L,N,R,S,T,+, -, Earth
872-1696	4.0mm - 6.0mm	10 strips of 10 marks	Black on Yellow	A,E,L,N,R,S,T,+, -, Earth

386230

Description	Order Code	Price Each	
		1+	3+
<b>Multi Coloured kits</b>			
0.5mm-1.5mm	872-1645▲	9.05	8.43
1.5mm-2.5mm	872-1653▲	9.41	8.92
4.0mm-6.0mm	872-1661▲	9.73	9.24
<b>Black on Yellow kits</b>			
0.5mm-1.5mm	872-1670▲	9.05	8.53
1.5mm-2.5mm	872-1688▲	9.41	8.69
4.0mm-6.0mm	872-1696▲	9.73	8.69
<b>Accessories</b>			
Applicator tool for all sizes	872-1637	5.63	5.27

Chevron Cut Helagrip Mk 2 Cassettes



H=15, W=90, D=77

- 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
- Teflon 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) 25 of 0-9 inclusive (coloured)
- Size 1-3 also has an extra 25 of 0, 1, 2, 3

208186

Size	Cable Diameter	Order Code	1+	10+	25+
1-3	1.3 - 2.8mm	120-1800●	44.65	40.92	36.39
2-5	2.25 - 5mm	120-1802●	44.65	40.92	36.39

Chevron Cut - Helagrip Mk 2



Reel dia. = 158.0

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.

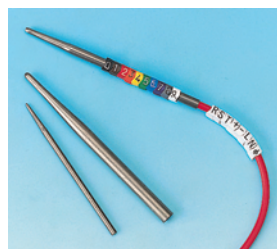
Operating temperature -65°C to +105°C (+135°C peak, 200 hrs. max.)

Legend	Colour	Order Code	Size 0-0 Cable Dia. 1.27-2.0	Size 1-3 Cable Dia. 1.3-2.8	Size 2-5 Cable Dia. 2.25-5.0
0	Black	120-1703		120-1734	120-1766
1	Brown	120-1704		120-1735	120-1767
2	Red	120-1705		120-1737	120-1768
3	Orange	120-1706		120-1738	120-1769
4	Yellow	120-1707		120-1739	120-1770
5	Green	120-1708		120-1740	120-1771
6	Blue	120-1709		120-1741	120-1772
7	Violet	120-1710		120-1742	120-1774
8	Grey	120-1711		120-1743	120-1775
9	White	120-1713		120-1744	120-1776
0	White	120-1714		120-1745	120-1777
1	White	120-1715		120-1746	120-1778
2	White	120-1716		120-1747	120-1779
3	White	120-1717		120-1749	120-1780
4	White	120-1718		120-1751	120-1781
5	White	120-1719		120-1752	120-1782
6	White	120-1720		120-1753	120-1783
7	White	120-1721		120-1754	120-1784
8	White	120-1722		120-1755	120-1786
9	White	120-1723		120-1756	120-1787
L	White	120-1725		120-1757	120-1788
N	White	120-1726		120-1758	120-1789
R	White	120-1728		120-1759	120-1790
S	White	120-1729		120-1760	120-1791
T	White	120-1730		120-1762	120-1792
+	White	120-1731		120-1763	120-1793
-	White	120-1732		120-1764	120-1794
⚡	White	120-1733		120-1765	120-1795

208015

1000 Per Reel		Price Per Reel				
Size	Cable Diameter (mm)	Order Code	1+	5+	10+	25+
0-0	1.27-2mm	All Order Codes	29.58	28.63	27.18	25.83
1-3	1.3-2.8mm	All Order Codes	29.58	28.63	27.18	25.83
2-5	2.25-5mm	All Order Codes	29.61	28.66	27.25	25.86

'Thimble Jig' Applicator Tools



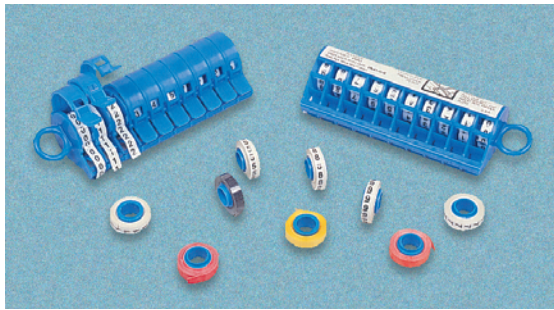
- Designed for use with Helagrip Mk2 markers
- Teflon coated for easy application
- Three size options: 0-0, 1-3 and 2-5

208282

Size	Cable Diameter	Order Code	1+	10+	25+
0-0	1.27-2mm	135-604	13.20	12.42	10.08
1-3	1.3-2.8mm	135-616	16.47	15.57	14.01
2-5	2.25-5mm	135-628	18.16	17.10	15.48



**Pan-Code® Wire Marker Dispenser**



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 pre-loaded with numbers 0 - 9. Replacement tapes available in a refill pack of ten (0 - 9) or individually in numbers, letters, symbols or colours.

Mfrs. List No: (Empty dispenser) PMD = 152-144  
 (Loaded dispenser) PMD-0-9 = 152-145  
 (Refill Pack) PMDR0-9 = 152-146  
 L=127, W=42, D=35  
 Tape Roll Length=8ft

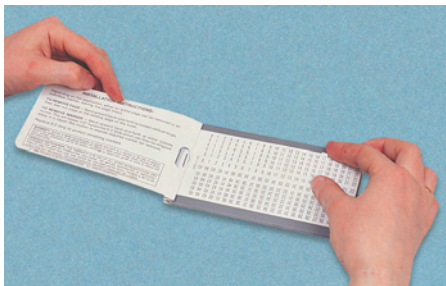
**Tape Rolls (Individual)**

Legend	Mfrs. List No.	Order Code	Legend	Mfrs. List No.	Order Code	Legend	Mfrs. List No.	Order Code
0	PMDR-0	152-147	H	PMDR-H	152-164	X	PMDR-X	152-180
1	PMDR-1	152-148	I	PMDR-I	152-165	Y	PMDR-Y	152-181
2	PMDR-2	152-149	J	PMDR-J	152-166	Z	PMDR-Z	152-182
3	PMDR-3	152-150	K	PMDR-K	152-167	⚡	PMDR-GRS	152-184
4	PMDR-4	152-151	L	PMDR-L	152-168	-	PMDR-MIN	152-185
5	PMDR-5	152-152	M	PMDR-M	152-169	+	PMDR-PLS	152-186
6	PMDR-6	152-153	N	PMDR-N	152-170	BLACK	PMDR-BLK	152-187
7	PMDR-7	152-154	O	PMDR-O	152-171	BLUE	PMDR-BL	152-188
8	PMDR-8	152-155	P	PMDR-P	152-172	BROWN	PMDR-BRN	152-189
9	PMDR-9	152-156	Q	PMDR-Q	152-173	GREY	PMDR-GRY	152-190
A	PMDR-A	152-157	R	PMDR-R	152-174	GREEN	PMDR-GRN	152-191
B	PMDR-B	152-158	S	PMDR-S	152-175	ORANGE	PMDR-ORN	152-192
C	PMDR-C	152-159	T	PMDR-T	152-176	PURPLE	PMDR-PUR	152-193
D	PMDR-D	152-160	U	PMDR-U	152-177	RED	PMDR-RED	152-194
E	PMDR-E	152-161	V	PMDR-V	152-178	WHITE	PMDR-WHT	152-195
F	PMDR-F	152-162	W	PMDR-W	152-179	YELLOW	PMDR-YEL	152-196
G	PMDR-G	152-163						

224112

Dispenser	Order Code	1+	5+	10+
Empty	152-144	26.52	23.21	19.89
Loaded 0-9	152-145	56.61	51.24	44.37
		<b>Price Per Pack</b>		
Dispenser Refill		1+	5+	10+
Pk of 10 (0-9)	152-146	40.73	35.67	31.41
		<b>Price Each</b>		
Individual Tape Rolls	All order Codes	4.07	3.57	3.15

**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.

Each page of markers is detachable. Operating temperature -18°C to +137°C.

Mfrs. List No.	No. of Markers
WM09	40 each 0 to 9 10 each T <sub>1</sub> , T <sub>2</sub> , T <sub>3</sub> , L <sub>1</sub> , L <sub>2</sub> , L <sub>3</sub>
WM045	10 each 0 to 45
WM4690	10 each 46-90
WMAZ	10 each A to Z, +, - 0 to 15
SUITABLE FOR ANY SIZE OF WIRE OR CABLE	
WMA33	10 each 1 to 33, A,B,C, +, -, T <sub>1</sub> , T <sub>2</sub> , T <sub>3</sub> , L <sub>1</sub> , L <sub>2</sub> , L <sub>3</sub>
WMA90	6 each 0 to 15 4 each 16 to 90
WM123	2 each A to Z, +, - 150 each 1,2,3
WMABC	150 each A, B, C

224113

Mfrs. List No.	Order Code	1+	3+	10+
WM09	303-185	19.32	18.18	16.60
WM045	303-197	19.32	18.18	16.60
WM4690	303-203	19.32	18.18	16.60
WMAZ	303-215	19.32	18.18	16.60
WMA33	303-227	19.32	18.18	16.60
WMA90	303-239	19.32	18.18	16.60
WM123	303-240	19.32	18.18	16.60
WMABC	303-252	19.32	18.18	15.84

**Heat Shrink Markers - PC Based** *tyco Electronics Identification*



**TMS System Six Identification System**

- Easy to use PC based marker labelling system
- Create identification on marker sleeves, using standard office equipment
- Permanent identification
- System allows fast printing, wide range of character styles at touch of a button
- Resistant to abrasion, aggressive cleaning solvents and industrial fluids
- Designed to meet needs of commercial and industrial customers

**Readyprint\* 3:1 Heat Shrink Sleeves**

- Supplied on ladder style configuration
- Printable both sides
- Available in White or Yellow

**TMS Total Software**

- TMS Total Software controls all aspects of printing
- Full editing capabilities
- Password security
- Alphanumeric sequencing and creation of sets

- Choice of font size, pitch and style
  - Complete with concise user manual
  - Compatible with all IBM PCs and clones
- T208M Printer Ribbon**
- Ribbon for use with Readyprint heat shrink sleeves and T208M printer

**Note:** Customers are advised to use manufacturers original printer ribbons for better performance. For print quality a 24 pin dot matrix printer fitted with a dual tractor feed is recommended. Not suitable for inkjet or laser printers.

Tensile strength	1200psi	Printable length	50mm nom.
Operating temperature	-30°C to +105°C	Flammability	UL224/VW1

208228

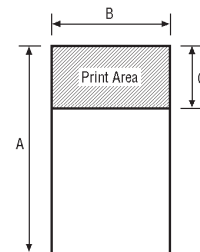
**Box of 250**

Readyprint* Sleeve		Order Codes		Price Per Box			
Nom.	Shrunk	White	Yellow	1+	5+	10+	25+
3.2	1.1	589-883	589-949	123.38	116.14	107.19	104.16
4.8	1.6	589-895	589-950	127.07	119.61	110.38	104.86
6.4	2.1	589-901	589-962	135.75	127.67	117.84	116.25
9.5	3.2	589-913	589-974	156.73	147.39	136.08	129.83
12.7	4.2	589-925	589-986	173.50	164.78	152.11	146.85
19	6.4	589-937	589-998	277.60	261.14	241.43	--
25.4	8.5	304-7325	304-7349	317.68	301.86	290.49	--
38	19.1	304-7337	304-7350	419.55	394.63	364.30	346.08
				<b>Price Each</b>			
				1+	5+		
TMS Total Software Windows	352-5200	720.00	--				
T208M/Readyprint Ribbon	417-7691	87.87	81.70				

**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

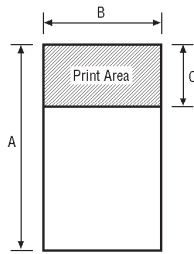
**3**

Cable Accessories

243151

Mfrs. List No.	Order Code	1+	5+	10+	25+
TKM-50	417-7642	18.33	16.51	13.77	12.23
TKM-75	417-7654	18.33	16.51	13.77	12.37
TKM-150	417-7666	18.33	16.51	13.77	12.42
TKM-230	417-7678	22.21	19.97	16.63	14.74

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

A	Print Area B x C	Mfrs. List No.	Order Code	A	Print Area B x C	Mfrs. List No.	Order Code
38	12 mm x 13 mm	11015	890-728	75	25 mm x 29 mm	11016	890-753
40	20 mm x 10 mm	11012	890-730	90	25 mm x 23 mm	11025	890-765
40	52 mm x 13 mm	11013	890-741	40	12 mm x 10 mm	11012C	303-4227

10 Sheets Per Pack	Labels Per Sheet	Order Code	1+	10+	20+	40+
White	60	890-728	43.47	41.30	39.12	36.95
	42	890-730	43.47	41.30	39.12	36.95
	18	890-741	43.47	41.30	39.12	36.95
	18	890-753	43.47	41.30	39.12	36.95
	24	890-765	43.47	41.30	39.12	36.95
Colours	40	303-4227	58.40	53.93	50.05	46.71

Self-Laminating Marker Dispenser Kits



H=64 W=35 D=110

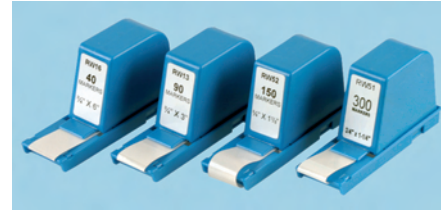
- Self-laminating write-on cable markers
- Manufactured in transparent self adhesive vinyl film with white marker area
- Kits include a blue polypropylene dispenser, roll of markers and a fine tip indelible black nylon marker pen
- Replacement pens and refill markers available
- Easy to use, simply write 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 + 80°C	Minimum application temperature	+4°C	
<b>Max Cable Dia. 8.0</b>	Order Code	Mfrs. List No.	Write on Area	Markers Per Roll
Kit	117-9861	S100X125VARY	L 9.5 x W 25	200
Refill	117-9863	S100X125VAFY	L 9.5 x W 25	100
<b>Max Cable Dia. 17.0</b>	Order Code	Mfrs. List No.	Write on Area	Markers Per Roll
Kit	117-9862	S100X150VADY	L 9.5 x W 25	200
Refill	117-9864	S100X225VAFY	L 9.5 x W 25	100
Black Marker Pen	117-9865	PFX-0	—	—

208302/438874

Order Code	Price Each			
Dispenser Kits	1+	5+	10+	
117-9861	45.04	39.33	34.86	
117-9862	45.04	39.33	34.86	
Refills				
117-9863	32.10	28.02	24.84	
117-9864	32.10	28.02	24.84	
Black Marker Pen	1+	12+	24+	48+
117-9865	17.06	15.17	14.68	12.40

Self-Laminating Label Dispensers



Self Laminating Label Dispensers supplied in a handy pocket sized plastic disposable dispenser.

NEW

- 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

Mfrs. Number	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			

419306.434947

Mfrs. List No.	Order Code	1+	5+	10+
WCD-318	109-6791	33.75	30.94	29.43
WCD-476	109-6792	33.75	30.94	29.43
WCD-762	109-6793	33.75	30.94	29.43
WCD-1520	109-6794	33.75	30.94	29.43
ZUB-01	109-6796	10.24	9.64	8.50

Cable Markers Identification Tags



- 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	1+	5+	10+	25+
Identification Tags	116-9004	29.48	26.71	22.52	17.70
			Price Each		
Black Marker Pen	305-3570	11.17	10.26	--	--

Cable Marker Strap



- 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

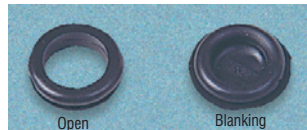
419702/436609

50 Per Pack Order Code	1+	Price Per Pack	3+
101-5596	56.08		50.49
101-5597	56.08		50.49

Cable Grommets



PVC



A range of Black PVC grommets for all general industrial installation type uses.

Panel Hole Diameter	Max. cable Diameter	Outside Diameter	Overall Thickness	Order Code
<b>Open Grommets</b>				
4.8	3.2	8	6.4	◆118-9027
6.4	4	9.5	4	118-9028
6.4	4	9.5	6.4	◆118-9030
6.4	4.8	9.5	7.1	◆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	12.7	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
11.9	6.4	15.9	8	◆118-9042
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
<b>Blanking Grommets</b>				
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

100 Per Pack Order Code	1+	5+	Price Per Pack 10+	25+	+
<b>Open</b>					
118-9027	7.09	6.66	5.95	5.04	--
118-9028	7.84	7.38	6.57	5.56	--
118-9030	7.13	6.70	6.11	5.56	--
118-9031	8.97	8.40	7.63	6.63	--
118-9032	7.84	7.38	6.57	5.56	--
118-9033	11.82	11.08	9.98	8.39	--
118-9034	10.00	9.56	9.13	8.39	--
118-9035	11.01	10.50	9.88	8.39	--
118-9036	11.01	10.50	9.88	8.39	--
118-9038	11.01	10.50	9.88	8.39	--
118-9039	11.82	11.08	9.98	8.39	--
118-9040	10.65	9.91	8.94	7.51	--
118-9041	9.11	8.47	7.80	6.70	--
118-9042	10.65	9.91	8.94	7.51	--
118-9043	14.60	13.75	12.35	10.40	--
118-9044	10.92	9.98	8.65	7.93	--
118-9045	16.60	15.54	14.01	11.77	--

100 Per Pack Order Code	1+	5+	Price Per Pack 10+	25+	+
118-9046	17.51	16.37	15.03	12.92	--
118-9047	5.17	5.01	4.84	--	--
118-9048	14.13	13.76	13.43	12.69	--
<b>Blanking</b>					
118-9051	15.52	14.98	13.91	11.41	--
118-9052	11.06	10.79	10.50	9.30	--
118-9053	18.12	17.45	17.19	15.18	--

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	1+	Price Each 5+	10+
118-9054	81.27	73.32	62.55

Rubber

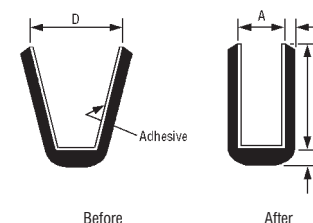


224116

100 Per Pack Chassis Hole	Cable Entry	Order Code	Price Per Pack 1+	5+	10+
9.5	6.35	303-161	23.04	20.90	18.33
12.7	9.5	303-173	36.00	30.94	27.82

Grommet Strip

Rayrim™ Adhesive Panel Edging tyco / Electronics / Raychem



- 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.	Order Code 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+	Price Each 25+	100+	250+
<b>1.2m Length</b>	769-174	5.04	4.55	3.90	3.38
	769-186	6.53	5.82	5.01	4.39
	769-198	9.34	8.16	7.05	6.11
	769-204	16.02	14.30	12.61	11.63
<b>5m Length</b>	134-727	20.57	18.59	15.93	13.81
	134-739	26.65	23.73	20.44	17.91
	134-740	37.44	33.31	28.80	24.96
	134-752	65.42	58.37	51.48	44.98

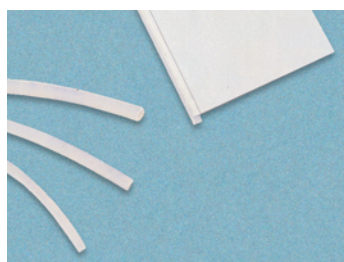
3

Cable Accessories

Compliant Non-compliant Limited stock - RoHS replacement available  
**RoHS**



**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

25m Lengths		Price Per Length				
Panel Thickness	Order Code	1+	5+	10+	25+	+
1.0 —1.10mm	141-550	27.95	25.68	24.21	18.69	--
1.5 —2.0mm	141-551	30.82	27.46	26.00	19.99	--
2.5 —3.30mm	141-552	33.15	30.23	28.60	20.80	--

**Snap Bushing**



**SNAP BUSHING**



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.	Bush hole dia.	Overall dia.	Overall depth	Order Code
9.5	6.3	12	10.3	582-062
13	8.2	14.5	10.3	582-074
15.9	12.2	18.6	10.3	582-086
18.9	14.3	21.5	10.3	582-098
22	17.3	23.8	11.5	582-104
25.1	19.1	28	11.5	582-116

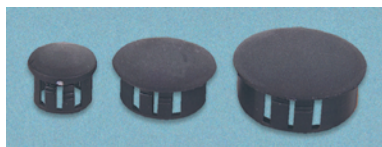
224118

100 Per Pack		Price Per Pack			
Mounting hole dia.	Order Code	1+	5+	10+	25+
9.5	582-062	12.90	11.73	10.53	8.39
13	582-074	15.83	14.40	12.97	10.27
15.9	582-086	16.02	14.56	13.13	10.40
18.9	582-098	17.13	15.57	14.04	11.12
22	582-104	18.98	17.23	15.50	12.32
25.1	582-116	22.46	20.44	18.36	14.59

**Hole Plugs**



**HOLE 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**.

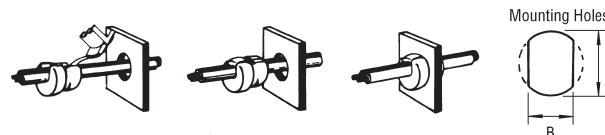
Mounting hole dia.	Overall dia.	Overall depth	Order Code
10	13	10.5	582-128
13	16.9	10.5	582-130
16	19.8	10.5	582-141
19	22.9	10.5	582-153
22	24.9	11.3	582-165
25	28.3	11.5	582-177

224119

100 Per Pack		Price Per Pack			
Mounting hole dia.	Order Code	1+	5+	10+	25+
10	582-128	13.72	12.22	10.99	8.74
13	582-130	16.41	14.92	13.42	10.66
16	582-141	16.90	15.08	13.55	10.76
19	582-153	19.34	17.58	15.83	12.55
22	582-165	20.25	18.43	16.58	13.16
25	582-177	21.71	19.76	17.78	14.11

**Cable Strain Relief**

**Strain Relief Bushes**



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.	Mounting Holes		Panel Thickness	Order Code
	A	B		
6.2-7.4	12.7	11.5	0.5-1.6	581-902
6.2-7.4	12.7	11.5	1.8-2.5	581-914
7.6-7.6	12.7	11.8	1.8-2.3	581-926
7.4-8.2	15.9	14	0.5-1.6	581-938
7.4-8.2	15.9	14	1.9-3.2	581-940
8.2-9.2	15.9	14	0.5-1.6	581-951
8.2-9.2	15.9	14	1.9-3.2	581-963

224120

100 Per Pack		Price Per Pack				
Cable Dia.	Order Code	1+	5+	10+	25+	+
6.2-7.4	581-902	18.02	16.65	15.18	12.78	--
6.2-7.4	581-914	18.02	16.65	15.18	12.78	--
7.6-7.6	581-926	18.73	17.19	15.51	12.93	--
7.4-8.2	581-938	19.61	18.03	16.17	13.56	--
7.4-8.2	581-940	19.77	18.18	16.35	13.74	--
8.2-9.2	581-951	21.14	19.41	17.70	14.82	--
8.2-9.2	581-963	21.14	19.41	17.70	14.82	--
		Price Each				
Assembly tool	434-243	81.40	68.94	60.45	--	--

**Cable Glands**

**IP66 - Nylon**



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.

Cable Dia.	Mounting Thread Size	Mounting Thread Length	Front Panel Projection	Operating temperature	
				Black Order Code	White Order Code
5-7	M13x1.0	8	21	143-607	218-285
4-7	M20x1.5	8	21	151-831	218-297
7-10.5	M16x1.5	10	25	143-608	218-303
7-10.5	M20x1.5	10	25	151-832	218-315
8-13	M20x1.5	11	31	143-609	218-327

224123

Black Cable Dia.	Order Code	Price Each					
		5+	50+	100+	500+	+	
5-7	143-607	1.41	1.29	1.23	1.11	--	
4-7	151-831	1.32	1.17	1.11	1.05	--	
7-10.5	143-608	1.32	1.14	1.08	1.02	--	
7-10.5	151-832	1.29	1.14	1.11	1.02	--	
8-13	143-609	1.71	1.56	1.47	1.35	--	
White	5-7	218-285	1.41	1.26	1.23	1.11	--
4-7	218-297	1.32	1.17	1.11	1.02	--	
7-10.5	218-303	1.32	1.20	1.14	1.05	--	
7-10.5	218-315	1.29	1.17	1.11	1.02	--	
8-13	218-327	1.65	1.44	1.38	1.26	--	

**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	Mounting Thread Length	Overall Length	A/F Size	Order Code Bush	Order Code Locknut
M16x1.5	3.5-11	9	23.5	19	303-0740	303-0775
M20x1.5	4-14.5	12	29.5	23	303-0751	303-0787
M25x1.5	8-18	12	29.5	27	303-0763	303-0799

208288

Thread Size	Order Code	10+	50+	100+	500+
<b>Cord Grip Bushes</b>					
M16x1.5	303-0740	0.75	0.69	0.66	0.63
M20x1.5	303-0751	0.78	0.75	0.72	0.67
M25x1.5	303-0763	1.62	1.59	1.53	1.40
<b>Locknuts</b>					
M16x1.5	303-0775	0.25	0.23	0.21	0.20
M20x1.5	303-0787	0.24	0.22	0.20	0.19
M25x1.5	303-0799	0.58	0.55	0.50	0.47

**IP68 - Nylon**



- A range of IP68 sealed compression cable glands
- Available in Metric and PG thread
- Metric supplied complete with lock nut and washer, PG only with lock nut
- Manufactured from UL recognised (UL94V-2) NYLON 66

**Best value**

Mounting Thread Size	Cable Diameter	Mounting Thread Length	Colour	Order Code Bush
PG7	3-6.5	8	Grey	927-648
PG9	4-8	8.1	Grey	927-650
PG11	5-10	8.2	Grey	927-661
PG13.5	6-12	8.9	Grey	927-673
PG16	10-14	8.9	Grey	927-685
PG21	13-18	10.8	Grey	927-697
PG29	18-25	10.9	Grey	927-703
M12	3-6.5	7.9	Black	927-715
M16	5-10	14.4	Black	927-727
M20	10-14	12.8	Black	927-739
M25	13-18	13.9	Black	927-740
M32	18-25	14.6	Black	927-752
M40	22-32	17.7	Black	317-7233
M50	30-38	17.3	Black	317-7245
M63	34-44	18.6	Black	317-7257

208225

Thread Size	Order Code	5+	50+	100+	250+	+	+
<b>Grey</b>							
PG7	927-648	1.74	1.65	1.53	1.38	--	--
PG9	927-650	1.81	1.71	1.59	1.44	--	--
PG11	927-661	1.99	1.89	1.80	1.59	--	--
PG13.5	927-673	2.40	2.25	2.16	2.04	--	--
PG16	927-685	2.75	2.61	2.46	2.22	--	--
PG21	927-697	5.02	4.71	4.38	3.90	--	--
PG29	927-703	8.29	7.38	6.63	6.36	--	--
<b>Black</b>							
M12	927-715	1.89	1.59	1.44	1.29	--	--
M16	927-727	1.96	1.68	1.53	1.38	--	--
M20	927-739	2.02	1.74	1.59	1.44	--	--
M25	927-740	2.57	2.19	2.04	1.89	--	--
M32	927-752	5.05	5.01	4.86	4.47	--	--
M40	317-7233	6.46	5.46	5.10	4.65	--	--
M50	317-7245	8.05	7.38	6.87	6.27	--	--
M63	317-7257	10.40	9.63	9.30	8.58	--	--

**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	Cable Diameter	Mounting Thread Length	Colour	Bush	Mounting Thread Size	Cable Diameter	Mounting Thread Length	Colour	Bush
PG7	3-6.5	8	Grey	116-8775	M12x1.5	3-6.5	8	Black	116-8781
PG9	4-8	8	Grey	116-8777	M16x1.5	5-10	15	Black	116-8783
PG11	5-10	8	Grey	116-8778	M20x1.5	6-12	10	Black	116-8784
PG13.5	6-12	9	Grey	116-8779	M20x1.5	10-14	15	Black	116-8785
PG16	10-14	10	Grey	116-8780	M25x1.5	13-18	15	Black	116-8786

224124

Thread size	Order Code	5+	50+	100+	500+	+
<b>Grey</b>						
PG7	116-8775	2.02	1.80	1.62	1.47	--
PG9	116-8777	2.17	2.07	1.95	1.74	--
PG11	116-8778	2.42	2.16	2.07	1.80	--
PG13.5	116-8779	2.63	2.28	2.19	1.86	--
PG16	116-8780	2.97	2.55	2.34	2.16	--

Thread size	Order Code	5+	50+	100+	500+	+
<b>Black</b>						
M12x1.5	116-8781	2.02	1.80	1.62	1.47	--
M16x1.5	116-8783	2.17	2.07	1.95	1.74	--
M20x1.5	116-8784	2.39	2.25	2.19	2.04	--
M20x1.5	116-8785	2.39	2.25	2.19	2.04	--
M25x1.5	116-8786	2.85	2.58	2.43	2.19	--

**IP68 - Nylon - 'Perfect'**  
Spiral Top



Operating temperature -30°C to +100°C

Mounting Thread Size	Cable Diameter	Mounting Thread Length	Colour	Order Code
PG7	3-6.5	8	Grey	116-8787
PG9	4-8	8	Grey	116-8788
PG11	5-10	8	Grey	116-8789
PG13.5	6-12	9	Grey	116-8790
M12x1.5	3-6.5	8	Black	116-8791
M16	5-10	15	Black	116-8792
M20	6-12	11	Black	116-8793

224125

Thread Size	Order Code	5+	50+	100+	500+	+
<b>Grey</b>						
PG7	116-8787	2.23	2.16	2.04	1.80	--
PG9	116-8788	2.45	2.37	2.25	1.98	--
PG11	116-8789	2.88	2.79	2.76	2.55	--
PG13.5	116-8790	3.03	2.91	2.82	2.46	--
<b>Black</b>						
M12x1.5	116-8791	2.75	2.28	2.16	1.74	--
M16	116-8792	3.12	2.67	2.46	2.04	--
M20	116-8793	3.55	3.03	2.82	2.31	--

**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

Thread	Cable Diameter	Length of Thread	Width Across Flats	PG 7	3.0 - 6.5mm	10mm 15mm
<b>Cable Glands</b>				PG 9	4.0 - 8.0mm	10mm 18mm
M12	3.0 - 6.5mm	8 mm	15mm	PG 11	5.0 - 10.0mm	10mm 21mm
M16	5.0 - 8.0mm	12mm	19mm	PG 13.5	6.0 - 12.0mm	10mm 23mm
M20	6.0 - 12.0mm	12mm	24mm	PG 16	10.0 - 14.0mm	10mm 26mm
M25	10.0 - 14.0mm	12mm	30mm	PG 21	13.0 - 18.0mm	12mm 32mm
M32	13.0 - 18.0mm	15mm	36mm	PG 29	18.0 - 25.0mm	12mm 41mm
M40	18.0 - 25.0mm	15mm	46mm	PG 36	22.0 - 32.0mm	14mm 51mm
M50	22.0 - 32.0mm	15mm	60mm	PG 42	30.0 - 38.0mm	16mm 60mm
M63	34.0 - 44.0mm	18mm	70mm	PG 48	34.0 - 44.0mm	18mm 64mm

338553

Order Code	Size	1+	3+
117-4573	M12	11.76	11.04
117-4574	M16	12.78	12.48
117-4576	M20	15.03	14.34
117-4577	M25	20.04	19.14
117-4578	M32	25.56	24.81
117-4579	M40	39.96	39.18
117-4580	M50	78.90	77.34
117-4581	M63	110.67	108.42
117-4582	PG 7	10.62	10.23
117-4583	PG 9	11.25	10.50
117-4584	PG 11	12.96	12.48
117-4585	PG 13.5	15.00	14.49
117-4586	PG 16	15.93	15.57
117-4588	PG 21	23.19	22.71
117-4590	PG 29	34.92	34.23
117-4591	PG 36	60.93	56.61
507-5099	PG 42	91.29	89.04
507-5105	PG 48	111.18	108.12



**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 approved
- Available in: Black, Grey, Red & White

Thread Cable Glands	Cable Diameter	Length of Thread	Width Across Flats
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
M40	22.0 – 32.0mm	18mm	53mm
M50	30.0 – 38.0mm	18mm	60mm
M63	34.0 – 44.0mm	18mm	65mm

338556

Order Code	Size	1+	Price Each	3+
<b>Grey</b>				
117-4592	M12	1.05		0.99
117-4593	M16	1.05		0.99
117-4594	M20	1.20		1.14
117-4595	M20 +	1.44		1.38
117-4596	M25	2.01		1.95
117-4597	M32	3.66		3.51
117-4598	M40	7.08		6.78
117-4600	M50	12.39		11.91
507-5191	M63	14.91		14.31
<b>Black</b>				
117-4601	M12	1.05		0.99
117-4602	M16	1.05		0.99
117-4603	M20	1.20		1.14
117-4604	M20 +	1.44		1.38
117-4606	M25	2.01		1.95
117-4607	M32	3.66		3.51
117-4608	M40	7.08		6.78
507-5270	M50	12.39		11.91
507-5282	M63	14.91		14.31
<b>Red</b>				
117-4609	M12	1.05		0.99
117-4610	M16	1.05		0.99
117-4611	M20	1.20		1.14
507-5324	M20 +	1.44		1.38
117-4612	M25	2.01		1.95
507-5348	M32	3.66		3.51
507-5350	M40	7.08		6.78
507-5361	M50	12.39		11.91
507-5373	M63	14.91		14.31
<b>White</b>				
117-4613	M12	1.11		1.05
117-4614	M16	1.17		1.11
117-4615	M20	1.32		1.23
507-5415	M20 +	1.53		1.47
117-4616	M25	2.16		2.10
507-5439	M32	3.84		3.69
507-5440	M40	7.38		7.08
507-5452	M50	12.39		11.91
507-5464	M63	14.91		14.31

**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

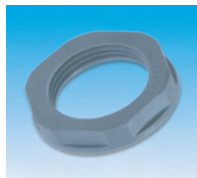
Mounting Thread Size	Cable Dia.	Mounting Thread Length	A/F Size Body	Mftrs. List No.	Order Code
PG7	2.5-6.5	8	15	53015000	117-8859
PG9	3.5-8	8	19	53015010	117-8860
PG11	4-10	8	22	53015020	117-8861
PG13.5	6-12	9	24	53015030	117-8862
PG16	9-14	10	27	53015040	117-8863
PG21	13-18	11	33	53015050	117-8864

Mounting Thread Size	A/F Size Body	Mftrs. List No.	Order Code	Mounting Thread Size	A/F Size Body	Mftrs. List No.	Order Code
PG29	14-25	11	42	53015060	117-8865		
PG36	24-32	13	53	53015070	117-8867		
M12x1.5	3.5-7	8	15	53111000	117-8868		
M16x1.5	4.5-10	8	19	53111010	117-8869		
M20x1.5	7-13	9	25	53111020	117-8870		
M25x1.5	9-17	10	30	53111030	117-8871		
M32x1.5	11-21	10	36	53111040	117-8872		
M40x1.5	19-28	10	46	53111050	117-8873		
M50x1.5	27-35	12	55	53111060	117-8874		
M63x1.5	34-45	12	56	53111070	117-8875		

231139

Thread Size	Order Code	1+	Price Each	10+	50+	100+
PG7	117-8859	1.32		1.10	0.94	0.79
PG9	117-8860	1.39		1.13	0.98	0.82
PG11	117-8861	1.61		1.32	1.07	0.95
PG13.5	117-8862	1.93		1.67	1.39	1.10
PG16	117-8863	2.06		1.70	1.45	1.26
PG21	117-8864	3.02		2.36	1.80	1.66
PG29	117-8865	5.91		4.76	3.97	3.28
PG36	117-8867	23.13		18.81	13.45	12.51
M12x1.5	117-8868	1.51		1.32	1.07	0.94
M16x1.5	117-8869	1.67		1.45	1.35	1.26
M20x1.5	117-8870	1.73		1.64	1.48	1.42
M25x1.5	117-8871	2.42		2.14	1.95	1.76
M32x1.5	117-8872	5.14		4.50	3.75	3.37
M40x1.5	117-8873	11.28		9.70	8.79	8.16
M50x1.5	117-8874	25.77		22.62	19.25	15.99
M63x1.5	117-8875	34.74		27.00	25.85	--

**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	M16x1.5	22	53119010	117-8911
PG9	22	53019010	117-8901	M20x1.5	26	53119020	117-8912
PG11	24	53019020	117-8902	M25x1.5	32	53119030	117-8913
PG13.5	27	53019030	117-8903	M32x1.5	41	53119040	117-8914
PG16	30	53019040	117-8904	M40x1.5	50	53119050	117-8915
PG21	36	53019050	117-8905	M50x1.5	60	53119060	117-8916
PG29	46	53019060	117-8906	M63x1.5	75	53119070	117-8917
M12x1.5	17	53119000	117-8909				

231147

Thread Size	Order Code	1+	Price Each	10+	50+	100+
PG7	117-8900	0.32		0.28	0.25	0.22
PG9	117-8901	0.38		0.35	0.28	0.25
PG11	117-8902	0.41		0.35	0.32	0.28
PG13.5	117-8903	0.44		0.38	0.35	0.32
PG16	117-8904	0.47		0.44	0.38	0.35
PG21	117-8905	0.79		0.72	0.57	0.47
PG29	117-8906	1.32		1.10	0.79	0.63
M12x1.5	117-8909	0.72		0.69	0.54	0.44
M16x1.5	117-8911	0.88		0.76	0.60	0.50
M20x1.5	117-8912	1.01		0.82	0.66	0.54
M25x1.5	117-8913	1.07		0.85	0.69	0.57
M32x1.5	117-8914	2.96		2.39	1.83	1.58
M40x1.5	117-8915	5.51		4.72	3.78	2.99
M50x1.5	117-8916	8.19		6.71	5.07	3.94
M63x1.5	117-8917	8.98		7.09	5.67	4.63

**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	Polystyrene Mftrs. List No.	Order Code	Nickel plated Brass Mftrs. 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	52003440	303-6832
PG36	10	52006010	117-9024	52003450	303-6844

231149

Thread Size	Order Code	1+	10+	50+	100+
<b>Polystyrene</b>					
PG7	117-9015	0.55	0.49	0.44	0.36
PG9	117-9016	0.62	0.52	0.47	0.36
PG11	117-9017	0.62	0.52	0.47	0.36
PG13.5	117-9018	0.74	0.63	0.51	0.40
PG16	117-9021	0.74	0.63	0.51	0.40
PG21	117-9022	0.87	0.70	0.63	0.47
PG29	117-9023	1.81	1.44	1.17	0.74
PG36	117-9024	3.95	2.81	2.21	1.49
<b>Nickel Plated Brass</b>					
PG7	117-9025	1.21	0.97	0.77	0.55
PG9	117-9026	1.37	1.10	0.77	0.58
PG11	117-9027	1.61	1.31	1.00	0.63
PG13.5	117-9028	1.81	1.77	1.10	0.74
PG16	117-9029	2.11	1.57	1.14	0.80
PG21	117-9030	3.62	2.78	2.18	1.47

Skindicht MA-M, MA-PG and ZS-M



- 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
- Skindicht ZSE-M**
- To convert a metric outer thread to a PG inner thread
  - With hexagonal flange and long PG inner thread

Mftrs. List No.	Outer Thread	Inner Thread	A/F Size	Order Code
<b>MA-M/PG</b>				
52104200	M16 x 1.5	PG7	—	348-6928
52104210	M20x1.5	PG9	—	348-6930
52104220	M25x1.5	PG11	—	348-6941
52104230	M25x1.5	PG13.5	—	348-6953
52104240	M25x1.5	PG16	—	348-6965
52104250	M32x1.5	PG16	—	348-6977
52104260	M32x1.5	PG21	—	348-6989
52104270	M40x1.5	PG21	—	348-6990
<b>MA-PG/M</b>				
52104490	PG7	M12x1.5	—	348-7039
52104491	PG9	M16x1.5	—	348-7040
52104493	PG11	M20x1.5	—	348-7064
52104494	PG13.5	M20x1.5	—	348-7076
52104495	PG16	M20x1.5	—	348-7088
52104496	PG16	M25x1.5	—	348-7090
52104497	PG21	M20x1.5	—	348-7106
52104498	PG21	M25x1.5	—	348-7118
52104499	PG21	M32x1.5	—	348-7120
52104500	PG29	M25x1.5	—	348-7131
52104502	PG29	M40x1.5	—	348-7155
<b>ZS-M</b>				
52104330	M12x1.5	PG7	14	348-8070
52104340	M16x1.5	PG9	18	348-8081
52104360	M20x1.5	PG11	22	348-8093
52104370	M20x1.5	PG13.5	22	348-8100
<b>ZSE-M</b>				
52106000	M12x1.5	PG7	14	348-7908
52106010	M16 x 1.5	PG9	18	348-7910
52106020	M20x1.5	PG11	22	348-7921
52106030	M20x1.5	PG13.5	22	348-7933
52106040	M20x1.5	PG16	24	348-7945
52106050	M25x1.5	PG21	30	348-7957

227253

Mftrs. List No.	Order Code	1+	10+	50+	100+
<b>MA-M/PG</b>					
52104200	348-6928	2.89	2.58	2.46	2.23
52104210	117-8980	2.89	2.58	2.46	—
52104220	117-8981	3.06	2.71	2.56	—
52104230	348-6953	2.86	2.60	2.56	—
52104240	348-6965	2.64	2.36	2.24	—
52104250	348-6977	5.21	4.63	4.43	—
52104260	348-6989	4.47	4.03	3.91	—
52104270	117-8983	8.97	8.00	7.58	—
<b>MA-PG/M</b>					
52104491	348-7040	1.67	1.48	1.39	1.35
52104493	117-8984	2.15	1.92	1.83	1.83
52104494	117-8985	2.15	1.92	1.85	—
52104495	117-8986	1.39	1.23	1.19	—
52104496	348-7090	2.64	2.36	2.20	2.19

Mftrs. List No.	Order Code	1+	10+	50+	100+
<b>MA-PG/M</b>					
52104497	117-8987	2.15	1.92	1.84	—
52104498	117-8988	1.96	1.76	1.67	1.65
52104499	117-8989	4.34	3.84	3.63	—
52104500	117-8991	4.82	4.28	4.07	—
52104502	117-8992	7.10	6.33	6.05	—
<b>ZS-M</b>					
52104330	348-8070	0.85	0.76	0.69	0.63
52104360	124-2474	1.39	1.23	1.13	1.12
52104370	124-2475	1.45	1.29	1.20	1.09
52104380	124-2476	1.45	1.29	1.21	—
52104400	348-8123	2.60	2.33	2.17	2.05

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.	A/F Size	Order Code	Mftrs. List No.	Thread	Cable Dia.	A/F Size	Order Code
53015110	PG9	1.5-5	15	117-8942	53111100	M12	1-5	15	117-8951
53015120	PG11	2-6	19	117-8943	53111110	M16	2-7	19	117-8952
53015130	PG13.5	2-7	22	117-8944	53111120	M20	5-10	25	117-8953
53015140	PG16	4-9	24	117-8946	53111130	M25	6-13	30	117-8954
53015150	PG21	6-12	27	117-8947	53111140	M32	7-15	36	117-8955
53015160	PG29	9-16	33	117-8948	53111150	M40	15-23	46	117-8956
53015170	PG36	11-20	42	117-8949	53111160	M50	22-29	55	117-8958
53015180	PG42	17-26	53	117-8950	53111170	M63	28-39	66	117-8959
53015190	PG48	22-31	60	348-5572					

227254

Mftrs. List No.	Order Code	1+	10+	50+	100+
53015110	117-8942	1.10	0.94	0.83	—
53015120	117-8943	1.20	1.07	1.02	—
53015130	117-8944	1.32	1.20	1.14	—
53015140	117-8946	1.32	1.20	1.13	1.12
53015150	117-8947	1.90	1.70	1.64	1.59
53015160	117-8948	3.66	3.24	3.12	3.05
53015170	117-8949	13.79	12.28	11.81	11.58
53015180	117-8950	23.77	20.03	19.25	—
53015190	348-5572	25.45	22.68	21.80	21.30
53111100	117-8951	1.01	0.91	0.85	0.76
53111110	117-8952	1.04	0.94	0.88	0.86
53111120	117-8953	1.45	1.29	1.26	1.16
53111130	117-8954	2.22	2.02	1.92	1.75
53111140	117-8955	4.21	3.72	3.53	3.21
53111150	117-8956	9.22	8.22	7.88	7.16
53111160	117-8958	21.59	19.22	18.14	16.03
53111170	117-8959	30.88	27.53	25.96	23.95

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

Mftrs. List No.	Thread	Cable Dia.	A/F Size	Order Code	Mftrs. List No.	Thread	Cable Dia.	A/F Size	Order Code
52015770	PG7	2-5	14	117-8960	52015833	PG48	28-35	64	348-5894
52015780	PG9	2-6	17	117-8961	53112100	M12x1.5	1-5	16	117-8971
52015790	PG11	3-7	20	117-8962	53112110	M16x1.5	2-7	20	117-8972
52015800	PG13.5	4-9	22	117-8963	53112120	M20x1.5	5-10	24	117-8974
52015810	PG16	6-13	24	117-8964	53112130	M25x1.5	6-13	29	117-8975
52015820	PG21	8-16	30	117-8965	53112140	M32x1.5	7-15	36	117-8976
52015830	PG29	10.5-20	40	117-8966	53112150	M40x1.5	15-23	45	117-8977
52015831	PG36	19-26	50	117-8967	53112160	M50x1.5	22-29	54	117-8978
52015832	PG42	24-31	57	117-8968	53112170	M63x1.5	28-39	67	117-8979

227255

Mftrs. List No.	Order Code	1+	10+	50+	100+
52015770	117-8960	2.45	2.17	2.06	—
52015780	117-8961	2.89	2.58	2.47	—
52015790	117-8962	3.66	3.24	3.08	—
52015800	117-8963	3.85	3.43	3.25	—
52015810	117-8964	3.85	3.43	3.24	3.22

3

Cable Accessories

Compliant  
Non-compliant  
RoHS  
Limited stock - RoHS replacement available



Mftrs. List No.	Order Code	1+	10+	50+	100+
52015820	117-8965	4.56	--	--	--
52015830	117-8966	8.23	--	--	--
52015831	117-8967	15.86	--	--	--
52015832	117-8968	25.86	23.03	22.69	--
52015833	348-5894	40.47	--	--	--
53112100	117-8971	3.65	3.31	3.12	--
53112110	117-8972	3.65	--	--	--
53112120	117-8974	4.28	3.84	3.83	--
53112130	117-8975	7.67	--	--	--
53112140	117-8976	22.33	19.88	18.77	16.57
53112150	117-8977	18.65	--	--	--
53112160	117-8978	46.27	42.08	--	--
53112170	117-8979	50.32	49.62	--	--

Skindicht® SM

Locknuts



- Nickel plated brass locknut to suit all brass glands



Mftrs. List No.	Thread (mm)	A/F Size (mm)	Thickness (mm)	Order Code	Mftrs. List No.	Thread (mm)	A/F Size (mm)	Thickness (mm)	Order Code
52003490	PG7	15	2.8	117-8918	52003580	PG48	64	5.5	421-0761
52003500	PG9	18	2.8	117-8919	52103000	M12 x 1.5	15	3	117-8934
52003510	PG11	21	3	117-8920	52103010	M16 x 1.5	19	3	117-8935
52003520	PG13.5	23	3	117-8922	52103020	M20 x 1.5	24	3.5	117-8936
52003530	PG16	26	3	117-8923	52103030	M25 x 1.5	30	4	117-8937
52003540	PG21	32	3.5	117-8924	52103040	M32 x 1.5	36	4	117-8938
52003550	PG29	41	4	117-8925	52103050	M40 x 1.5	46	5	117-8939
52003560	PG36	51	5	117-8926	52103060	M50 x 1.5	60	5	117-8940
52003570	PG42	60	5	421-0750	52103070	M63 x 1.5	70	5	117-8941

227256

Thread	Order Code	1+	10+	50+	100+
PG7	117-8918	0.41	0.35	0.25	0.19
PG9	117-8919	0.44	0.38	0.25	0.19
PG11	117-8920	0.47	0.38	0.28	0.19
PG13.5	117-8922	0.54	0.44	0.32	0.22
PG16	117-8923	0.60	0.47	0.35	0.25
PG21	117-8924	0.98	0.79	0.57	0.41
PG29	117-8925	1.61	1.29	0.91	0.66
PG36	117-8926	2.55	2.02	1.45	1.01
PG42	421-0750	3.28	3.02	2.84	2.77
PG48	421-0761	3.94	3.31	2.99	2.90
M12 x 1.5	117-8934	0.91	0.76	0.47	0.43
M16 x 1.5	117-8935	0.98	0.82	0.47	0.41
M20 x 1.5	117-8936	1.07	0.91	0.54	0.50
M25 x 1.5	117-8937	1.83	1.54	0.91	0.86
M32 x 1.5	117-8938	2.68	2.24	1.35	1.15
M40 x 1.5	117-8939	4.66	3.87	2.33	1.97
M50 x 1.5	117-8940	12.57	10.49	6.30	5.26
M63 x 1.5	117-8941	13.55	11.28	6.77	5.91

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 -30°C to +100°C

Mounting Thread Size	Cable Diameter	Mounting Thread Length	Body	A/F Size	Locknut	Order Code
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	
M12x1.5	3-6	10	14	15	116-8801	
M16x1.5	5-9	10	17	19	116-8802	
M20x1.5	8-13	10	22	24	116-8803	
M25x1.5	11-17	11	27	30	116-8804	

207014

Thread Size	Order Code	1+	10+	50+	100+	+
PG7	116-8795	3.49	3.30	3.15	2.82	--
PG9	116-8796	4.47	4.20	3.99	3.66	--
PG11	116-8797	5.20	4.92	4.65	4.26	--
PG13.5	116-8798	5.60	5.28	5.01	4.59	--
PG16	116-8799	6.70	6.30	5.97	5.46	--
M12x1.5	116-8801	5.39	5.01	4.44	3.72	--
M16x1.5	116-8802	6.52	6.03	5.40	4.47	--
M20x1.5	116-8803	7.68	7.02	6.36	5.25	--
M25x1.5	116-8804	11.72	10.80	9.69	8.16	--

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	Mounting Thread Length	A/F Size	Order Code	
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
M12x1.5	3-6	10	14	15	116-8758
M16x1.5	5-9	10	17	19	116-8759
M20x1.5	8-13	10	22	24	116-8760
M25x1.5	11-17	11	27	30	116-8761
M32x1.5	15-21	13	34	36	116-8762

208285

Thread Size	Order Code	1+	10+	50+	100+	+
PG7	116-8751	7.28	6.48	5.85	5.28	--
PG9	116-8752	7.80	6.96	6.27	5.67	--
PG11	116-8753	8.87	7.92	7.11	6.42	--
PG13.5	116-8754	9.42	8.40	7.53	6.81	--
PG16	116-8755	10.71	9.54	8.61	7.80	--
PG21	116-8756	14.78	13.17	11.88	10.71	--
M12x1.5	116-8758	7.28	6.48	5.85	5.28	--
M16x1.5	116-8759	7.80	6.96	6.27	5.67	--
M20x1.5	116-8760	8.87	7.92	7.11	6.42	--
M25x1.5	116-8761	12.76	11.19	9.66	8.64	--
M32x1.5	116-8762	20.90	18.63	16.80	15.15	--

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)
Indoor BWK Gland Packs				
725-7405	DAVBW20S	2	12.9	15.8
725-7417	DAVBW20	2	15.5	20.8
725-7429	DAVBW25	2	20.3	27.2
725-7430	DAVBW32	2	27.2	33.5
725-7442	DAVBW40	1	33.5	40.5
725-7454	50BWK	1	45.2	53.5
Outdoor CWK Gland Packs				
725-7466	DAVCW20S	2	12.9	15.8
725-7478	DAVCW20	2	15.5	20.8
725-7480	DAVCW25	2	20.3	27.2

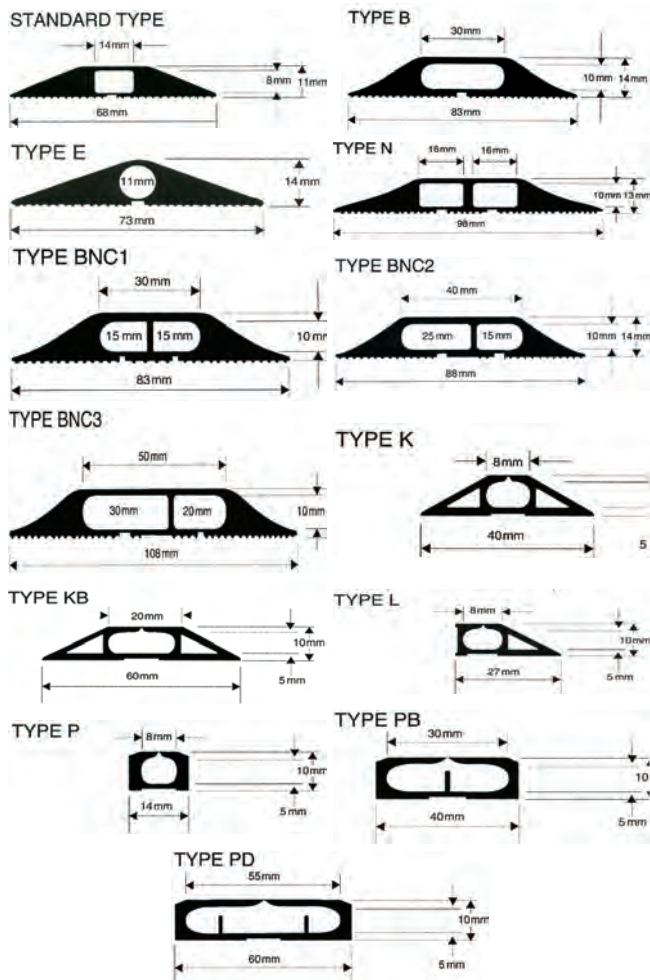
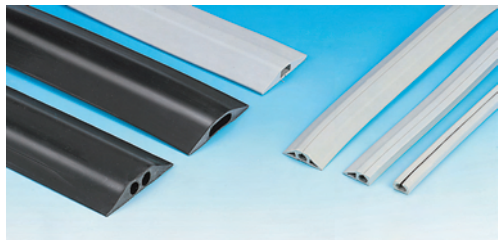
227226

Mftrs. List No.	Order Code	1+	5+	10+	25+	+
DAVBW20S	725-7405	7.81	7.09	6.68	5.86	--
DAVBW20	725-7417	10.54	9.58	9.01	7.91	--
DAVBW25	725-7429	17.61	16.00	15.09	13.20	--
DAVBW32	725-7430	34.38	31.25	29.52	25.80	--
DAVBW40	725-7442	28.70	26.05	24.63	21.48	--
50BWK	725-7454	56.01	50.37	47.60	41.58	--
DAVCW20S	725-7466	20.40	18.55	17.51	15.31	--
DAVCW20	725-7478	24.42	22.21	20.95	18.30	--
DAVCW25	725-7480	42.35	38.49	36.35	31.75	--



**Cable Protectors**

**Snap Fit® and Snap Top®**  
Rubber Cable Protectors



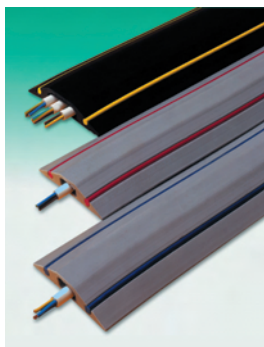
- Prevents accidents caused by loose leads and cables
- No need to thread cables through profile or use knife to slit moulding
- **Snap Fit** - membrane in base easily opened to allow cable insertion then snaps back into place. Moulding can then be positioned on floor area. Adhesive tape not supplied but can be used if required. Designed for most general purpose cables and leads in offices or houses.
- **Snap Top** - membrane in top for cable insertion. Moulding then fixes in position using double-sided adhesive foam tape supplied. Designed primarily for telecommunication applications.
- 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**

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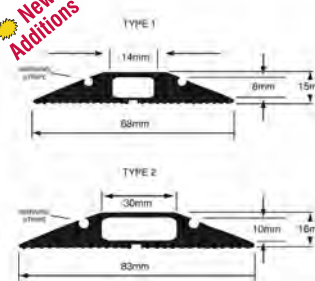
Profile/Image	Colour	Length	Order Code	Price Per Length	
				1+	5+
<b>Snap Fit</b> Standard	Black	1m	<b>303-0246</b>	20.50	18.72
	Grey	1m	<b>303-0258</b>	20.50	18.72
	Black	3m	<b>303-0260</b>	51.60	47.97
	Grey	3m	<b>303-0271</b>	51.60	47.97
	Black	9m	<b>871-6773</b>	169.33	160.99
Type B	Grey	9m	<b>871-6790</b>	167.96	159.98
	Black	1m	<b>303-0283</b>	29.01	27.03
	Grey	1m	<b>303-0295</b>	29.01	27.03
	Black	3m	<b>303-0301</b>	73.54	69.24
	Grey	3m	<b>303-0313</b>	73.54	69.24
	Black	9m	<b>871-6633</b>	205.49	195.20
	Grey	9m	<b>871-6641</b>	205.49	195.20
Type E	Black	3m	<b>871-6650</b>	68.39	64.87
	Grey	3m	<b>871-6668</b>	68.39	64.87

Profile/Image	Colour	Length	Order Code	Price Per Length		
				1+	5+	
<b>Snap Fit</b>	Black	9m	<b>871-6676</b>	203.86	195.43	
	Grey	9m	<b>871-6684</b>	203.86	195.43	
Type N	Black	3m	<b>871-6692</b>	128.18	124.86	
	Grey	3m	<b>871-6706</b>	128.18	124.86	
	Black	9m	<b>871-6714</b>	368.47	356.62	
	Grey	9m	<b>871-6722</b>	368.47	356.62	
Type BNC1	Black	3m	<b>871-6838</b>	89.28	86.78	
	Grey	3m	<b>871-6889</b>	85.87	82.61	
	Black	9m	<b>871-6846</b>	260.69	251.74	
Type BNC2	Grey	9m	<b>871-6897</b>	267.11	256.10	
	Black	3m	<b>871-6854</b>	92.87	88.31	
	Grey	3m	<b>871-6900</b>	96.15	93.68	
Type BNC3	Black	9m	<b>871-6862</b>	285.46	278.60	
	Grey	9m	<b>871-6919</b>	293.63	279.73	
	Black	3m	<b>871-6870</b>	168.74	160.63	
Grey	3m	<b>871-6927</b>	167.67	158.45		
<b>Snap Top</b>	Type K	Grey	9m	<b>871-6803</b>	154.38	146.48
	Type KB	Grey	9m	<b>871-6730</b>	223.46	217.76
	Type L	Grey	9m	<b>871-6811</b>	153.67	146.80
	Type P	Grey	9m	<b>871-6820</b>	137.78	130.10
	Type PB	Grey	9m	<b>871-6749</b>	208.45	199.95
	Type PD	Grey	9m	<b>871-6757</b>	360.72	339.01

**Cable Protectors**



New Additions



- 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

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Image	Colour	Length	Order Code	Price Per Length	
				1+	3+
Type 1	Black/Yellow	3	<b>431-8249</b>	59.97	56.73
Type 1	Black/Yellow	9	<b>431-8250</b>	169.71	161.91
Type 2	Black/Yellow	3	<b>431-8262</b>	84.45	76.95
Type 2	Black/Yellow	9	<b>431-8274</b>	217.26	213.21
Type 1	Grey/Red	3	<b>431-8286</b>	54.78	53.55
Type 1	Grey/Red	9	<b>431-8298</b>	186.66	172.08
Type 2	Grey/Red	3	<b>431-8286</b>	54.78	53.55
Type 2	Grey/Red	9	<b>431-8316</b>	263.16	251.40
Type 1	Grey/Blue	3	<b>431-8328</b>	61.95	55.35
Type 1	Grey/Blue	9	<b>431-8330</b>	200.43	183.81
Type 1	Grey/Yellow	3	<b>866-7284</b>	68.45	62.85
Type 1	Grey/Yellow	9	<b>866-7292</b>	196.02	187.23
Type 2	Grey/Yellow	3	<b>866-7306</b>	90.39	81.77
Type 2	Grey/Yellow	9	<b>866-7314</b>	266.68	248.26
Type 1	Black/Red	3	<b>866-7322</b>	62.20	60.80
Type 2	Black/Red	3	<b>866-7330</b>	195.53	187.13
Type 1	Black/Blue	3	<b>866-7349</b>	90.39	81.77
Type 2	Black/Blue	3	<b>866-7357</b>	268.83	246.18

**Cable Guard**



L=1.83m

- 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

3

Cable Accessories



208227

Width	Colour	Mftrs. List No.	Order Code	Price Per Roll		
				1+	5+	10+
31.8mm	Ivory	FG1EI6-A	117-9894	40.82	38.02	34.99
31.8mm	Black	FG1BL6-A	117-9896	40.82	38.02	34.99
31.8mm	Safety Yellow	FG1YL6-A	117-9897	40.82	38.02	34.99
62mm	Ivory	FG3EI6S-A	117-9898	47.13	43.78	40.30
62mm	Black	FG3BL6S-A	117-9899	48.79	45.31	41.73
62mm	Safety Yellow	FG3YL6S-A	117-9900	48.79	45.31	41.73

**Crystal/Hazard Cable Protectors**



- Designed to protect cables and prevents accidents where cables cross open floor
- The base can be slit to easily insert cables
- Achieves **BS476 part 7 class 3** (fire retardant)
- Tested to **BS6458 Section 2.1** and **BS2782 part 1**
- Black hazard cable covers have 3 highly visible yellow stripes along the top which will alert people to the potential hazard of trailing cable
- Crystal cable covers allow easy identification of cables being protected but also assumes the colour of the floor
- Crystal protectors will accept rope lights for use in the dark, gangways and walkways



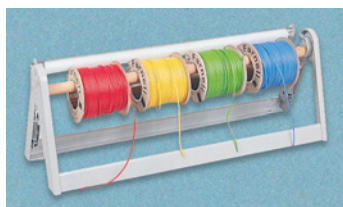
Hole Size 30 x 10 Overall Size 80 x 14

248705

Length (m)	Order Code	Price Per Length		
		1+	3+	5+
<b>Crystal</b>				
3	431-8407	75.27	72.99	70.68
9	431-8419	186.27	182.31	174.30
<b>Black/Yellow Hazard</b>				
3	431-8432	75.27	72.99	70.44
9	431-8444	186.27	182.31	178.11

**Cable Reel Holders**

**Bench/Wall Mounting**



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 hardboard reel separators.

H=198, W=555, D=175

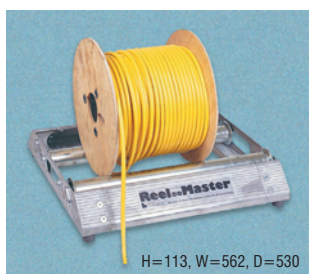
Maximum reel diameter	254	Colour	Grey
Maximum combined reel width	520		

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Order Code	1+	Price Each		
		+	+	+
145-461	138.91	--	--	--

**'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	Maximum reel width	520mm
Minimum reel diameter	120mm	Maximum reel weight	140kg
Maximum reel diameter	1.2m		

227259

Order Code	Price Each		
	1+	5+	+
218-042	728.07	726.56	--



**MULTICOMP CABLE ACCESSORIES ARE NOW REBRANDED PROPOWER CABLE ACCESSORIES**

Farnell-Newark InOne has rebranded our popular Multicomp range of cable accessories to "Propower". There will be a transition phase to change over completely to the new brand but specifications for each product remains the same.

This is to enable us to continue to offer these products at competitive prices and pass on the benefits of our global purchasing power.

If you have purchased Multicomp cable accessories in the past, these will now be branded ProPower. If you require technical clarifications please contact our technical support teams.

Prices are in Singapore Dollars and exclusive of GST. Due to the volatile nature of certain products, prices are subject to change without notice.