

# ROUTING AND PROTECTION SOLUTIONS

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## Pro-Duct Wiring Duct

HellermannTyton's Pro-Duct wiring duct efficiently routes and protects wire and cable. Manufactured from high impact, rigid PVC, Pro-Duct includes solid, slotted and high density slotted styles. Pro-Duct comes in standard colors of white, gray and black in 6 foot lengths. Blue wiring duct is also available in a variety of standard sizes. Other colors are available. Contact HellermannTyton for minimum volume requirements.

### Pro-Duct Features

All styles of Pro-Duct wiring duct (solid, slotted and high density slotted) are designed with many installer preferred features:

- Cover is supplied with a film which protects against scratches and is writable for temporary identification during installation.
- Smooth edges protect installer and wires from abrasion.
- Cover is flush with the side of the duct for increased wire capacity. It also allows for tight, side-by-side placement.
- No cover slippage. The covers are provided with a non-slip lining. This ensures that the covers remain in place during vibration, yet they easily snap on and off, offering ready access to the wire run.
- Mounting holes are designed for installation versatility. Elongated mounting holes allow for changes in panel designs and installation flexibility.
- Mounting holes are standard. Contact HellermannTyton for duct without mounting holes.
- Enhanced wire capacity helps maximize space within panels.
- Interchangeable covers between solid, slotted, and high density slotted styles reduce inventory and increase versatility.
- Professional appearance increases panel's overall neatness.

*Pro-Duct is U.L. Recognized, CSA Certified, CE Compliant and carries a U.L. flame rating of 94V0.*

*Pro-Duct is lead-free and is made with flame retardant PVC.*



Lead Free



File # E64139



File # 49249



### Solid Wall Duct

Solid wall duct is designed for straight wire runs where break-outs are not required.

- Smooth edges
- Non-slip cover
- Professional appearance



### Slotted Wall Duct

Slotted wall duct features break-away fingers which provide additional access for wire leads.

Slotted wall duct is manufactured with two continuous score lines.

The first score line is at the base of the finger, allowing the finger to be bent and broken away when a greater opening is required. The second score line is lower allowing a section of the sidewall to be easily removed by cutting the sidewall down to the lower score line. Use HellermannTyton's TDNT notching tool and snap out the desired section. Both score lines provide smooth edges to ensure worker safety.

Strong fingers prevent unwanted breaking.

The fingers are easily deflected outward, allowing ready positioning of the wires within the slotted wall duct.

Restricted opening design in the finger of the duct helps keep wires in place.

Restriction also prevents unintended removal of wires and permits any individual wire to be traced without disconnection.



## High Density Slotted Duct

High density slotted wall duct comes with narrow fingers, equaling a 2-to-1 finger ratio compared to standard slotted wiring duct.

Narrow fingers reduce fanning of the wires to the terminal blocks.

Compact designs and components are more easily accommodated with the high density duct's 2-to-1 finger ratio.

High density duct also incorporates the double scored design, similar to the standard slotted wall duct.

With sizes 2" high and above, high density duct features a double restriction on each finger of the duct.

The double restriction helps retain wires in the bottom portion of the duct for easier installation.

Mounting holes are uniform in size to the solid and slotted wall duct but are offered every 2 inches to accommodate compact designs and installations.



## Adhesive Backing

Most sizes of Pro-Duct wiring duct are available with a pressure sensitive, rubber based adhesive backing. The adhesive backing can be utilized for temporary positioning. This is an optional feature and must be specified when ordering. For part number information, contact HellermannTyton or see notation at the end of each duct dimensional chart.

Please note: Adhesive duct orders are non-cancellable and non-returnable.

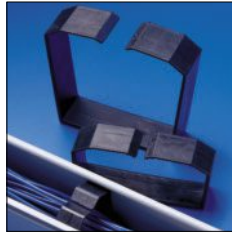
Duct Width	Rows of Tape	Tape Width
.50"	1	3/8"
.75"	1	1/2"
1.0"	1	3/4"
1.5"	1	1-1/8"
2.0"	2	3/4"
3.0"	2	3/4"
4.0"	2	3/4"

## Modular Packaging

Pro-Duct wiring duct is available in modular, easy to stock packaging. Each master carton contains 120 feet of duct divided into four inner cartons of 30 feet each. This better serves the inventory needs of users who require smaller quantities of several sizes. Due to weight restrictions, 3" x 5" and 4" x 5" sizes are only available in bulk packaging.

### Solid Style Wire Retainers

The solid wall wire retainer is inserted in the duct and snaps into place. The retainer can be used on any smooth, straight run of duct and can work with vertical and overhead applications. Solid wall wire retainers are manufactured from black PVC.



### Slotted Style Wire Retainers

The slotted wall wire retainer snaps in from the outside of the duct, allowing for fast and easy installation and removal. The retainer spans approximately 90% over the duct opening for effective wire management. Slotted wall wire retainers are manufactured from black nylon 6/6.

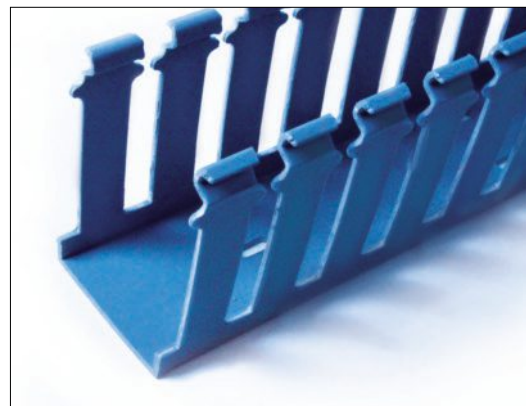


Product Selection					
Article No.	Part No.	Type	Description	Color	Pkg. Qty.
<b>Solid Style Wire Retainers</b>					
181-20201	SDWR2X20K2	SDWR2X20	Wire Retainer for 2" X 2" Solid Duct	Black	50
181-00158	SDWR4X20K2	SDWR4X20	Wire Retainer for 4" X 2" Solid Duct	Black	50
181-00441	SDWR4X40P2	SDWR4X40	Wire Retainer for 4" X 4" Solid Duct	Black	10
<b>Slotted Style Wire Retainers</b>					
181-20021	SLWR20C2	SLWR20	Wire Retainer for 2" Wide Slotted Duct	Black	100
181-30031	SLWR30C2	SLWR30	Wire Retainer for 3" Wide Slotted Duct	Black	100
181-40041	SLWR40C2	SLWR40	Wire Retainer for 4" Wide Slotted Duct	Black	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

### Intrinsic Blue Wiring Duct

Designed for identification purposes, HellermannTyton offers intrinsic blue Pro-Duct wiring duct. Manufactured from the same PVC material as HellermannTyton's standard duct, the blue color indicates that the wiring contained in the duct runs to intrinsically safe components in the control panel. Control panels used in chemical plants, grain elevators or other environments where explosive gases may exist are examples of where intrinsic blue duct might be needed. For more information contact HellermannTyton.





## Panel Mounting Rivets and Tool

HellermannTyton panel rivets are one piece drive rivets that provide a fast, economical means of affixing wiring duct. The rivet is inserted into a 3/16" pre-punched hole and the pin is driven into the base, thereby expanding the rivet legs and locking the duct and sub-panel in place. The panel thickness (including the duct thickness) should be a maximum of 3/16". A panel rivet tool is also available for quick and easy installation of the drive rivets.



### Product Selection

Article No.	Part No.	Type	Description	Color	Pkg. Qty.
181-00139	PR1	PR1	Panel Rivet	Natural	1000
182-00001	PRT1	PRT1	Panel Rivet Tool	Yellow	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

## Corner Strips

HellermannTyton corner strips are supplied in six foot lengths which can be cut to provide a rounded corner for two duct sections meeting at right angles. They are made from PVC material and can be used with any size HellermannTyton wiring duct.



## Straight Connectors

HellermannTyton's PVC straight connectors join straight duct runs to cover and protect wires. The connectors can be used with all sizes of duct. Supplied in six foot lengths, they can be cut to fit duct sidewall heights.



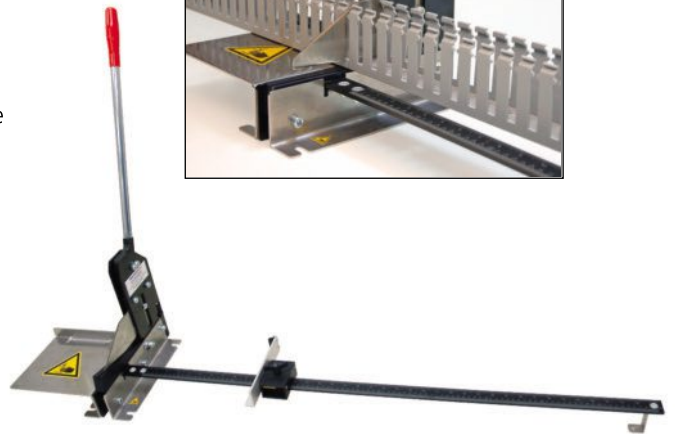
### Product Selection

Article No.	Part No.	Type	Description	Color	Pkg. Qty.
181-00001	CSG	CSG	Corner Strip - Gray	Gray	6
181-00002	CSW	CSW	Corner Strip - White	White	6
181-00003	SCG	SCG	Straight Connector - Gray	Gray	6
181-00004	SCW	SCW	Straight Connector - White	White	6

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

### Bench Mounted Wiring Duct Cutting Tool

The HellermannTyton Bench Mounted Wiring Duct Cutting Tool is used to accurately measure and cut all of HellermannTyton’s slotted and high density slotted wiring duct, solid dividers and covers. The hand lever is ergonomically designed to reduce user fatigue. The measuring guide incorporates both imperial and metric values which eliminates the need for secondary measurement devices. The stop bar slides up and down the measuring guide, improving productivity on repetitive cuts. The long lasting, hardened blade produces burr free edges and improves productivity by eliminating the need for filing the edges after cutting. The integrated safety guide protects the operator from the blade during operation which preserves workplace safety.



Product Selection			
Article No.	Part No.	Description	Pkg. Qty.
904-00295	904-00295	Duct Cutter	1
904-00296	904-00296	Replacement Blade	1
904-00297	904-00297	Safety Guide	1

### Duct Notching Tool

HellermannTyton's Duct Notching Tool is designed for use with HellermannTyton's slotted wall and slotted high density Pro-Duct wiring duct. This hand held tool features plastic grips for easy handling and allows users to notch a duct sidewall section down to the very base for finger and sidewall removal.

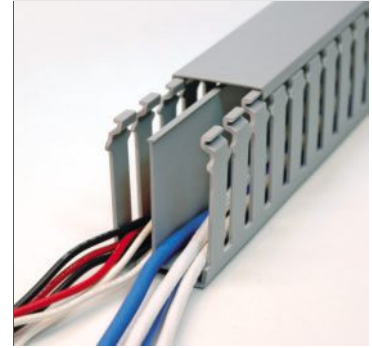


Product Selection				
Article No.	Part No.	Type	Description	Pkg. Qty.
182-00002	TDNT	TDNT	Notching Tool	1

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

## Wiring Duct Solid Wall Dividers

HellermannTyton's Solid Wall Dividers can be securely mounted into all types of HellermannTyton wiring duct to separate high and low voltage reducing interference. The dividers simply snap or slide into the HellermannTyton specially designed mount, instantly creating multiple channels within a single duct size. The dividers have continuous score lines for smooth breakouts where needed. The top of the dividers has a double-sided lip which reduces the likelihood of wires falling out during installation. Dividers are available in gray and white colors. Contact HellermannTyton for additional colors.



### Product Selection

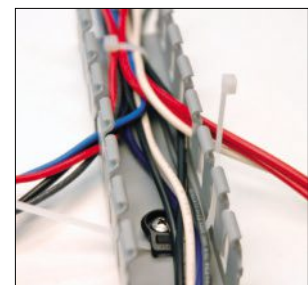
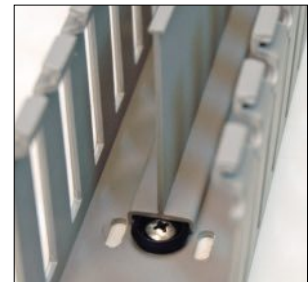
Article No.	Part No.	Type	Width	Height	Description	Color	Pkg. Qty
			in. (mm)	in. (mm)			ft. (6ft lengths)
181-00300	181-00300	DV1G4	.75 (19.1)	.9 (22.9)	Duct Divider for 1" High Duct	Gray	120
181-00301	181-00301	DV1.5G4	.75 (19.1)	1.4 (35.6)	Duct Divider for 1.5" High Duct	Gray	120
181-00302	181-00302	DV2G4	.75 (19.1)	1.85 (47.0)	Duct Divider for 2" High Duct	Gray	120
181-00303	181-00303	DV3G4	.77 (19.6)	2.85 (72.4)	Duct Divider for 3" High Duct	Gray	120
181-00304	181-00304	DV4G4	.77 (19.6)	3.85 (97.8)	Duct Divider for 4" High Duct	Gray	120
181-00305	181-00305	DV1W4	.75 (19.1)	.9 (22.9)	Duct Divider for 1" High Duct	White	120
181-00306	181-00306	DV1.5W4	.75 (19.1)	1.4 (35.6)	Duct Divider for 1.5" High Duct	White	120
181-00307	181-00307	DV2W4	.75 (19.1)	1.85 (47.0)	Duct Divider for 2" High Duct	White	120
181-00308	181-00308	DV3W4	.77 (19.6)	2.85 (72.4)	Duct Divider for 3" High Duct	White	120
181-00309	181-00309	DV4W4	.77 (19.6)	3.85 (97.8)	Duct Divider for 4" High Duct	White	120

## Universal Duct Mount

The HellermannTyton Universal Duct Mount is a multipurpose mount which secures duct dividers or secures wire bundles inside the duct with a cable tie. The mount can be installed with duct panel rivets or mechanical fasteners. The bottom of the mount has locator tabs that fit into the duct mounting holes preventing the mount from spinning during installation. The tabs also align the mount for easy divider installation. The top of the mount creates separation between wires and the fastener head which protects the wires from abrasion.

When used as a duct divider mount, the divider snaps or slides over the mount resulting in a quick, secure installation.

When used as a wire bundle mount, simply slide the cable tie through the four-way tie slot to secure the bundle. This method prevents the cables from falling outside the duct during installation and cover removal.

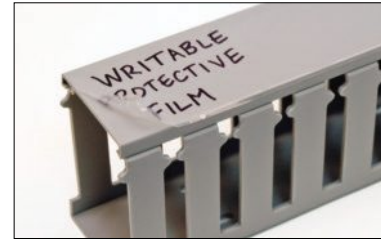


### Product Selection

Article No.	Part No.	Type	Color	Material	Pkg. Qty.
181-00684	181-00684	DVM	Black	PA66VO	100

### Covers

Covers for Pro-Duct wiring duct are sold separately and are interchangeable among the 3 styles of duct (solid, slotted and high density). The covers include a film which protects against scratches and is writable for temporary identification during installation. The film is easily removed when installation is complete. The inner sides of the covers have a non-slip lining, ensuring the cover will not slide down the duct.



Product Selection						
Article No.	Part No.	Type	Width		Color	Pkg. Qty
			in.	mm		ft. (6 ft. lengths)
<b>.5" wide covers</b>						
181-00443	181-00443	TC.5	.76	19.3	White	120
181-00442	181-00442	TC.5			Gray	120
181-90050	181-90050	TC.5			Black	120
<b>.75" wide covers</b>						
181-00447	181-00447	TC.75	1.01	25.65	White	120
181-00446	181-00446	TC.75			Gray	120
181-00445	181-00445	TC.75			Black	120
<b>1" wide covers</b>						
181-91008	181-91008	TC1	1.0	25.4	White	120
181-91004	181-91004	TC1			Gray	120
181-91000	181-91000	TC1			Black	120
<b>1.5" wide covers</b>						
181-91510	181-91510	TC1.5	1.5	38.1	White	120
181-91507	181-91507	TC1.5			Gray	120
181-91503	181-91503	TC1.5			Black	120
<b>2" wide covers</b>						
181-92011	181-92011	TC2	2.0	50.8	White	120
181-92005	181-92005	TC2			Gray	120
181-92001	181-92001	TC2			Black	120
<b>2.5" wide covers</b>						
181-00262	181-00262	TC2.5	2.5	63.5	White	120
181-00260	181-00260	TC2.5			Gray	120
181-00311	181-00311	TC2.5			Black	120
<b>3" wide covers</b>						
181-93011	181-93011	TC3	3.0	76.2	White	120
181-93008	181-93008	TC3			Gray	120
181-93003	181-93003	TC3			Black	120
<b>4" wide covers</b>						
181-94014	181-94014	TC4	4.0	101.6	White	120
181-94009	181-94009	TC4			Gray	120
181-94003	181-94003	TC4			Black	120
<b>6" wide covers</b>						
181-96002	181-96002	TC6	6.0	152.4	White	60
181-96000	181-96000	TC6			Gray	60
181-00448	181-00448	TC6			Black	60
<b>8" wide covers</b>						
181-00451	181-00451	TC8	8.0	203.2	White	60
181-00450	181-00450	TC8			Gray	60
181-00449	181-00449	TC8			Black	60

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.



Lead Free



File # E64139



File # 49249



### Cover Hinge

The hinge easily snaps onto the cover and the wiring duct (slotted wall duct only.) Once assembled, the hinge permits the cover to open like a door, providing easy access to the wires.

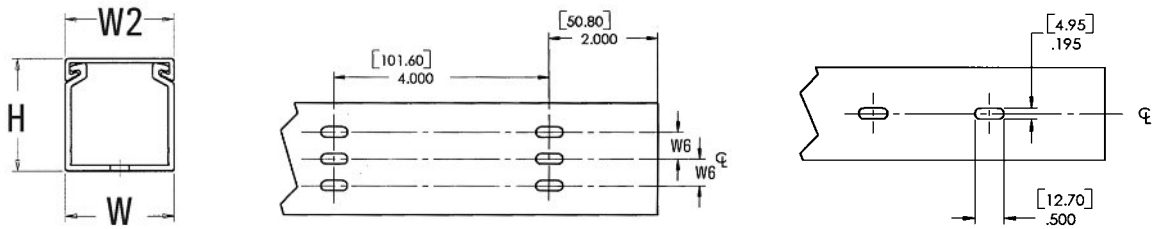


Product Selection				
Article No.	Part No.	Type	Description	Pkg. Qty.
854-09272	WMBH	WMBH	Wire Management Hinges	25

Use **Part No.** for ordering and **Type** for specification purposes.



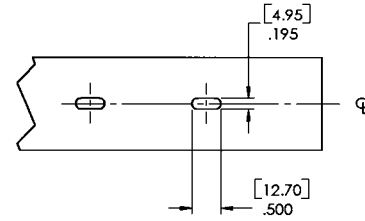
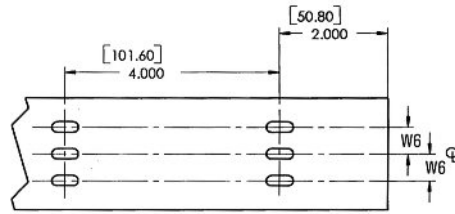
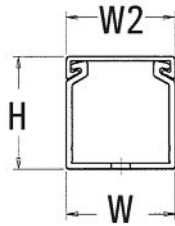
Solid Wall Duct



Product Selection									
Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W6)	Description	Color	Pkg. Qty
			in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>.5" x .5" (12.7 x 12.7) Nominal Duct Size</b>									
181-00453	181-00453	SD.5X.5	.5 (12.7)	.55 (14.0)	.76 (19.3)	One rows of holes ☒	Non-Adhesive	White	120
181-00525	181-00525	SDA.5X.5					Adhesive	White	120
181-00452	181-00452	SD.5X.5					Non-Adhesive	Gray	120
181-00524	181-00524	SDA.5X.5					Adhesive	Gray	120
181-05500	181-05500	SD.5X.5					Non-Adhesive	Black	120
181-00481	181-00481	SDA.5X.5					Adhesive	Black	120
<b>.5" x 1" (12.7 x 25.4) Nominal Duct Size</b>									
181-00143	181-00143	SD.5X1	.5 (12.7)	1.05 (26.7)	.76 (19.3)	One rows of holes ☒	Non-Adhesive	White	120
181-00528	181-00528	SDA.5X1					Adhesive	White	120
181-00145	181-00145	SD.5X1					Non-Adhesive	Gray	120
181-00526	181-00526	SDA.5X1					Adhesive	Gray	120
181-00144	181-00144	SD.5X1					Non-Adhesive	Black	120
181-00527	181-00527	SDA.5X1					Adhesive	Black	120
<b>.75" x .75" (19.1 x 19.1) Nominal Duct Size</b>									
181-00456	181-00456	SD.75X.75	.75 (19.1)	.8 (20.3)	1.01 (25.7)	One rows of holes ☒	Non-Adhesive	White	120
181-00142	181-00142	SDA.75X.75					Adhesive	White	120
181-00455	181-00455	SD.75X.75					Non-Adhesive	Gray	120
181-00140	181-00140	SDA.75X.75					Adhesive	Gray	120
181-00454	181-00454	SD.75X.75					Non-Adhesive	Black	120
181-00141	181-00141	SDA.75X.75					Adhesive	Black	120
<b>1" x 1" (25.4 x 25.4) Nominal Duct Size</b>									
181-11005	181-11005	SD1X1	1.0 (25.4)	1.05 (26.7)	1.0 (25.4)	One rows of holes ☒	Non-Adhesive	White	120
181-11008	181-11008	SDA1X1					Adhesive	White	120
181-11002	181-11002	SD1X1					Non-Adhesive	Gray	120
181-00493	181-00493	SDA1X1					Adhesive	Gray	120
181-11000	181-11000	SD1X1					Non-Adhesive	Black	120
181-00492	181-00492	SDA1X1					Adhesive	Black	120
<b>1" x 1.5" (25.4 x 38.1) Nominal Duct Size</b>									
181-11502	181-11502	SD1X1.5	1.02 (25.9)	1.56 (39.6)	1.0 (25.4)	One rows of holes ☒	Non-Adhesive	White	120
181-00491	181-00491	SDA1X1.5					Adhesive	White	120
181-11501	181-11501	SD1X1.5					Non-Adhesive	Gray	120
181-00490	181-00490	SDA1X1.5					Adhesive	Gray	120
181-00457	181-00457	SD1X1.5					Non-Adhesive	Black	120
181-00529	181-00529	SDA1X1.5					Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Solid wall duct in larger sizes continued on the next page. Covers are listed on page 115.

Solid Wall Duct

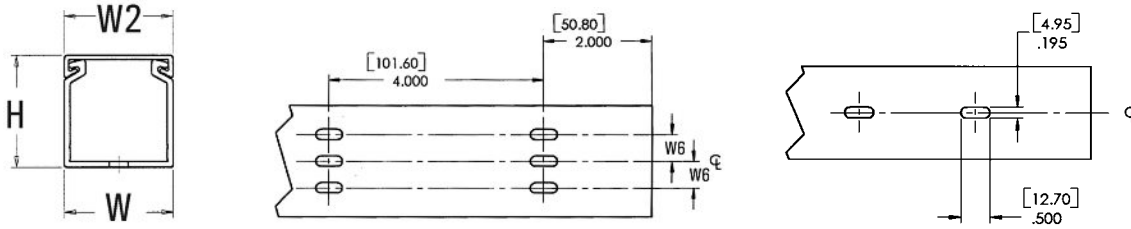


Product Selection

Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W6)	Description	Color	Pkg. Qty
			in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>1" x 2" (25.4 x 50.8) Nominal Duct Size</b>									
181-12002	181-12002	SD1X2	1.03 (26.2)	2.06 (52.3)	1.0 (25.4)	One rows of holes ☑	Non-Adhesive	White	120
181-00495	181-00495	SDA1X2					Adhesive	White	120
181-12001	181-12001	SD1X2					Non-Adhesive	Gray	120
181-00494	181-00494	SDA1X2					Adhesive	Gray	120
181-00458	181-00458	SD1X2					Non-Adhesive	Black	120
181-00530	181-00530	SDA1X2					Adhesive	Black	120
<b>1" x 3" (25.4 x 76.2) Nominal Duct Size</b>									
181-13001	181-13001	SD1X3	1.02 (25.9)	3.06 (77.7)	1.0 (25.4)	One rows of holes ☑	Non-Adhesive	White	120
181-00496	181-00496	SDA1X3					Adhesive	White	120
181-00136	181-00136	SD1X3					Non-Adhesive	Gray	120
181-00671	181-00671	SDA1X3					Adhesive	Gray	120
181-00459	181-00459	SD1X3					Non-Adhesive	Black	120
181-00531	181-00531	SDA1X3					Adhesive	Black	120
<b>1" x 4" (25.4 x 101.6) Nominal Duct Size</b>									
181-14000	181-14000	SD1X4	1.0 (25.4)	4.06 (103.1)	1.0 (25.4)	One rows of holes ☑	Non-Adhesive	White	120
181-00497	181-00497	SDA1X4					Adhesive	White	120
181-00461	181-00461	SD1X4					Non-Adhesive	Gray	120
181-00533	181-00533	SDA1X4					Adhesive	Gray	120
181-00460	181-00460	SD1X4					Non-Adhesive	Black	120
181-00532	181-00532	SDA1X4					Adhesive	Black	120
<b>1.5" x 1" (38.1 x 25.4) Nominal Duct Size</b>									
181-15102	181-15102	SD1.5X1	1.5 (38.1)	1.05 (26.7)	1.5 (38.1)	One rows of holes ☑	Non-Adhesive	White	120
181-00486	181-00486	SDA1.5X1					Adhesive	White	120
181-15101	181-15101	SD1.5X1					Non-Adhesive	Gray	120
181-00025	181-00025	SDA1.5X1					Adhesive	Gray	120
181-15100	181-15100	SD1.5X1					Non-Adhesive	Black	120
181-00485	181-00485	SDA1.5X1					Adhesive	Black	120
<b>1.5" x 1.5" (38.1 x 38.1) Nominal Duct Size</b>									
181-15503	181-15503	SD1.5X1.5	1.52 (38.6)	1.56 (39.6)	1.5 (38.1)	One rows of holes ☑	Non-Adhesive	White	120
181-15504	181-15504	SDA1.5X1.5					Adhesive	White	120
181-15502	181-15502	SD1.5X1.5					Non-Adhesive	Gray	120
181-00483	181-00483	SDA1.5X1.5					Adhesive	Gray	120
181-15500	181-15500	SD1.5X1.5					Non-Adhesive	Black	120
181-00482	181-00482	SDA1.5X1.5					Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Solid wall duct in larger sizes continued on the next page. Covers are listed on page 115.

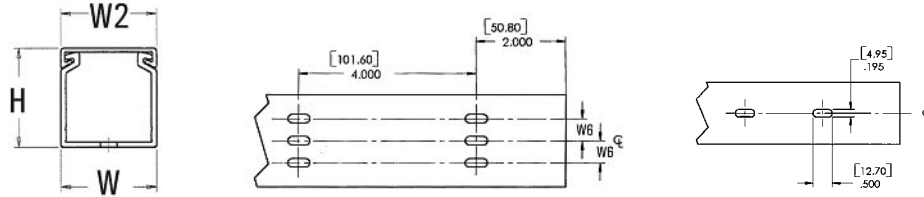
Solid Wall Duct



Product Selection			Width (W)	Height (H)	Width (W2)	Width (W6)	Description	Color	Pkg. Qty
Article No.	Part No.	Type	in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>1.5" x 2" (38.1 x 50.8) Nominal Duct Size</b>									
181-15202	181-15202	SD1.5X2	1.53 (38.9)	2.06 (52.3)	1.5 (38.1)	One rows of holes φ	Non-Adhesive	White	120
181-00488	181-00488	SDA1.5X2					Adhesive	White	120
181-15201	181-15201	SD1.5X2					Non-Adhesive	Gray	120
181-00487	181-00487	SDA1.5X2					Adhesive	Gray	120
181-00462	181-00462	SD1.5X2					Non-Adhesive	Black	120
181-00534	181-00534	SDA1.5X2					Adhesive	Black	120
<b>1.5" x 3" (38.1 x 76.2) Nominal Duct Size</b>									
181-00464	181-00464	SD1.5X3	1.52 (38.6)	3.06 (77.7)	1.5 (38.1)	One rows of holes φ	Non-Adhesive	White	120
181-00536	181-00536	SDA1.5X3					Adhesive	White	120
181-15300	181-15300	SD1.5X3					Non-Adhesive	Gray	120
181-00489	181-00489	SDA1.5X3					Adhesive	Gray	120
181-00463	181-00463	SD1.5X3					Non-Adhesive	Black	120
181-00535	181-00535	SDA1.5X3					Adhesive	Black	120
<b>1.5" x 4" (38.1 x 101.6) Nominal Duct Size</b>									
181-00467	181-00467	SD1.5X4	1.5 (38.1)	4.06 (103.1)	1.5 (38.1)	One rows of holes φ	Non-Adhesive	White	120
181-00539	181-00539	SDA1.5X4					Adhesive	White	120
181-00574	181-00574	SD1.5X4					Non-Adhesive	Gray	120
181-00538	181-00538	SDA1.5X4					Adhesive	Gray	120
181-00465	181-00465	SD1.5X4					Non-Adhesive	Black	120
181-00537	181-00537	SDA1.5X4					Adhesive	Black	120
<b>2" x 1" (50.8 x 25.4) Nominal Duct Size</b>									
181-21003	181-21003	SD2X1	2.01 (51.1)	1.05 (26.7)	2.0 (50.8)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-00500	181-00500	SDA2X1					Adhesive	White	120
181-21001	181-21001	SD2X1					Non-Adhesive	Gray	120
181-00499	181-00499	SDA2X1					Adhesive	Gray	120
181-21000	181-21000	SD2X1					Non-Adhesive	Black	120
181-00498	181-00498	SDA2X1					Adhesive	Black	120
<b>2" x 2" (50.8 x 50.8) Nominal Duct Size</b>									
181-22013	181-22013	SD2X2	2.03 (51.6)	2.06 (52.3)	2.0 (50.8)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-22018	181-22018	SDA2X2					Adhesive	White	120
181-22008	181-22008	SD2X2					Non-Adhesive	Gray	120
181-22016	181-22016	SDA2X2					Adhesive	Gray	120
181-22005	181-22005	SD2X2					Non-Adhesive	Black	120
181-00501	181-00501	SDA2X2					Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Solid wall duct in larger sizes continued on the next page. Covers are listed on page 115.

**Solid Wall Duct**

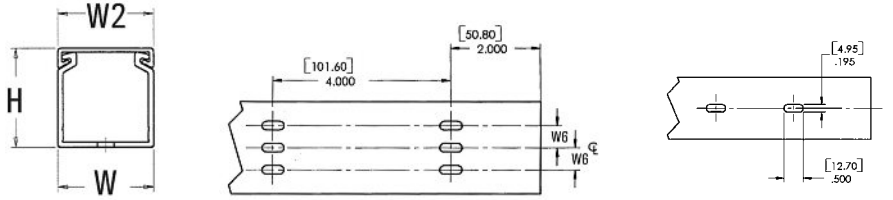


Product Selection		Type	Width (W)	Height (H)	Width (W2)	Width (W6)	Description	Color	Pkg. Qty
Article No.	Part No.		in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>2" x 3" (50.8 x 76.2) Nominal Duct Size</b>									
181-23002	181-23002	SD2X3	2.02 (51.3)	3.06 (77.7)	2.0 (50.8)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-00504	181-00504	SDA2X3					Adhesive	White	120
181-23001	181-23001	SD2X3					Non-Adhesive	Gray	120
181-00503	181-00503	SDA2X3					Adhesive	Gray	120
181-00468	181-00468	SD2X3					Non-Adhesive	Black	120
181-00540	181-00540	SDA2X3					Adhesive	Black	120
<b>2" x 4" (50.8 x 101.6) Nominal Duct Size</b>									
181-24002	181-24002	SD2X4	2.0 (50.8)	4.06 (103.1)	2.0 (50.8)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-00506	181-00506	SDA2X4					Adhesive	White	120
181-24000	181-24000	SD2X4					Non-Adhesive	Gray	120
181-00505	181-00505	SDA2X4					Adhesive	Gray	120
181-00469	181-00469	SD2X4					Non-Adhesive	Black	120
181-00541	181-00541	SDA2X4					Adhesive	Black	120
<b>2" x 5" (50.8 x 127) Nominal Duct Size</b>									
181-00248	181-00248	SD2X5	2.0 (50.8)	5.0 (127)	2.0 (50.8)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-00250	181-00250	SDA2X5					Adhesive	White	120
181-00244	181-00244	SD2X5					Non-Adhesive	Gray	120
181-00246	181-00246	SDA2X5					Adhesive	Gray	120
181-00312	181-00312	SD2X5					Non-Adhesive	Black	120
181-00313	181-00313	SDA2X5					Adhesive	Black	120
<b>2.5" x 3" (63.5 x 76.2) Nominal Duct Size</b>									
181-00224	181-00224	SD2.5X3	2.50 (63.5)	3.0 (76.2)	2.5 (63.5)	Three rows of holes .75 (19.05)	Non-Adhesive	White	120
181-00226	181-00226	SDA2.5X3					Adhesive	White	120
181-00220	181-00220	SD2.5X3					Non-Adhesive	Gray	120
181-00222	181-00222	SDA2.5X3					Adhesive	Gray	120
181-00314	181-00314	SD2.5X3					Non-Adhesive	Black	120
181-00315	181-00315	SDA2.5X3					Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Solid wall duct in larger sizes continued on the next page. Covers are listed on page 115.



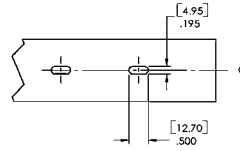
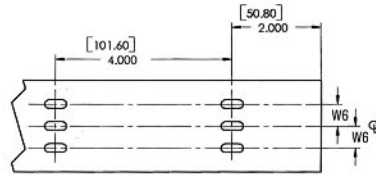
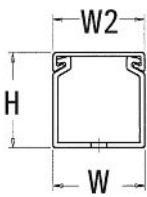
Solid Wall Duct



Product Selection			Width (W)	Height (H)	Width (W2)	Width (W6)			Pkg. Qty
Article No.	Part No.	Type	in. (mm)	in. (mm)	in. (mm)	in. (mm)	Description	Color	ft. (6 ft. lengths)
<b>3" x 1" (76.2 x 25.4) Nominal Duct Size</b>									
181-31002	181-31002	SD3X1	3.04 (77.2)	1.05 (26.7)	3.0 (76.2)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-00508	181-00508	SDA3X1					Adhesive	White	120
181-31001	181-31001	SD3X1					Non-Adhesive	Gray	120
181-00507	181-00507	SDA3X1					Adhesive	Gray	120
181-00470	181-00470	SD3X1					Non-Adhesive	Black	120
181-00672	181-00672	SDA3X1					Adhesive	Black	120
<b>3" x 2" (76.2 x 50.8) Nominal Duct Size</b>									
181-32003	181-32003	SD3X2	3.03 (77.0)	2.06 (52.5)	3.0 (76.2)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-00510	181-00510	SDA3X2					Adhesive	White	120
181-32002	181-32002	SD3X2					Non-Adhesive	Gray	120
181-00509	181-00509	SDA3X2					Adhesive	Gray	120
181-00471	181-00471	SD3X2					Non-Adhesive	Black	120
181-00542	181-00542	SDA3X2					Adhesive	Black	120
<b>3" x 3" (76.2 x 76.2) Nominal Duct Size</b>									
181-33006	181-33006	SD3X3	3.02 (76.7)	3.06 (77.7)	3.0 (76.2)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-00513	181-00513	SDA3X3					Adhesive	White	120
181-33004	181-33004	SD3X3					Non-Adhesive	Gray	120
181-00512	181-00512	SDA3X3					Adhesive	Gray	120
181-33000	181-33000	SD3X3					Non-Adhesive	Black	120
181-00511	181-00511	SDA3X3					Adhesive	Black	120
<b>3" x 4" (76.2 x 101.6) Nominal Duct Size</b>									
181-34001	181-34001	SD3X4	3.0 (76.2)	4.06 (103.1)	3.0 (76.2)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-00515	181-00515	SDA3X4					Adhesive	White	120
181-34000	181-34000	SD3X4					Non-Adhesive	Gray	120
181-00514	181-00514	SDA3X4					Adhesive	Gray	120
181-00472	181-00472	SD3X4					Non-Adhesive	Black	120
181-00147	181-00147	SDA3X4					Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Solid wall duct in larger sizes continued on the next page. Covers are listed on page 115.

Solid Wall Duct



Lead Free File # E64139 File # 49249

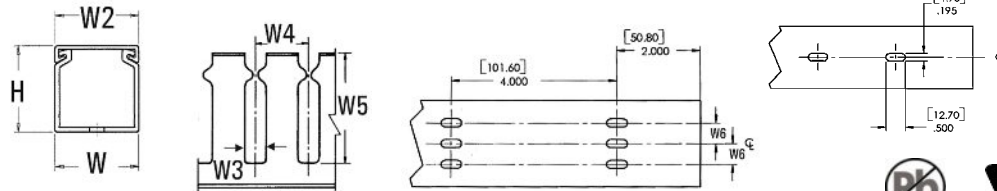
Product Selection

Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W6)	Description	Color	Pkg. Qty
			in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>3" x 5" (76.2 x 127.0) Nominal Duct Size</b>									
181-00475	181-00475	SD3X5	3.0 (76.2)	5.06 (128.5)	3.0 (76.2)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	60
181-00544	181-00544	SDA3X5					Adhesive	White	60
181-00474	181-00474	SD3X5					Non-Adhesive	Gray	60
181-00148	181-00148	SDA3X5					Adhesive	Gray	60
181-00473	181-00473	SD3X5					Non-Adhesive	Black	60
181-00543	181-00543	SDA3X5					Adhesive	Black	60
<b>4" x 2" (101.6 x 50.8) Nominal Duct Size</b>									
181-42004	181-42004	SD4X2	4.03 (102.4)	2.06 (52.3)	4.0 (101.6)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	120
181-00517	181-00517	SDA4X2					Adhesive	White	120
181-42002	181-42002	SD4X2					Non-Adhesive	Gray	120
181-00516	181-00516	SDA4X2					Adhesive	Gray	120
181-00476	181-00476	SD4X2					Non-Adhesive	Black	120
181-00545	181-00545	SDA4X2					Adhesive	Black	120
<b>4" x 3" (101.6 x 76.2) Nominal Duct Size</b>									
181-43002	181-43002	SD4X3	4.03 (102.4)	3.06 (77.7)	4.0 (101.6)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	120
181-00519	181-00519	SDA4X3					Adhesive	White	120
181-43001	181-43001	SD4X3					Non-Adhesive	Gray	120
181-00518	181-00518	SDA4X3					Adhesive	Gray	120
181-00477	181-00477	SD4X3					Non-Adhesive	Black	120
181-00546	181-00546	SDA4X3					Adhesive	Black	120
<b>4" x 4" (101.6 x 101.6) Nominal Duct Size</b>									
181-44015	181-44015	SD4X4	4.00 (101.6)	4.06 (103.1)	4.0 (101.6)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	120
181-00521	181-00521	SDA4X4					Adhesive	White	120
181-44009	181-44009	SD4X4					Non-Adhesive	Gray	120
181-44018	181-44018	SDA4X4					Adhesive	Gray	120
181-44006	181-44006	SD4X4					Non-Adhesive	Black	120
181-00520	181-00520	SDA4X4					Adhesive	Black	120
<b>4" x 5" (101.6 x 127) Nominal Duct Size</b>									
181-45001	181-45001	SD4X5	4.0 (101.6)	5.06 (128.5)	4.0 (101.6)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	60
181-00523	181-00523	SDA4X5					Adhesive	White	60
181-45000	181-45000	SD4X5					Non-Adhesive	Gray	60
181-00522	181-00522	SDA4X5					Adhesive	Gray	60
181-00137	181-00137	SD4X5					Non-Adhesive	Black	60
181-00547	181-00547	SDA4X5					Adhesive	Black	60
<b>6" x 4" (152.4 x 101.6) Nominal Duct Size</b>									
181-64001	181-64001	SD6X4	6.0 (152.4)	4.07 (103.4)	6.0 (152.4)	No mounting holes	Non-Adhesive	White	60
181-64000	181-64000	SD6X4					Non-Adhesive	Gray	60
181-00479	181-00479	SD6X4					Non-Adhesive	Black	60
<b>8" x 4" (203.2x 101.6) Nominal Duct Size</b>									
181-84007	181-84007	SD8X4	8.0 (203.2)	4.09 (103.9)	8.0 (203.2)	No mounting holes	Non-Adhesive	White	30
181-84004	181-84004	SD8X4					Non-Adhesive	Gray	30
181-00480	181-00480	SD8X4					Non-Adhesive	Black	30

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For product information visit or [www.hellermann.tyton.com](http://www.hellermann.tyton.com) or call 800-537-1512

Slotted Wall Duct

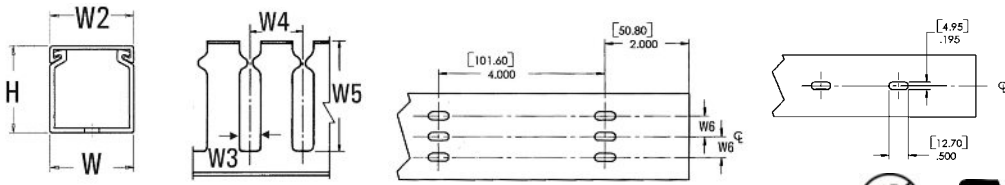


Product Selection

Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W3)	Width (W4)	Width (W5)	Width (W6)	Description	Color	Pkg. Qty
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>1" x 1" (25.4 x 25.4) Nominal Duct Size</b>												
181-11015	181-11015	SL1x1	1.0 (25.4)	1.05 (26.7)	1.0 (25.4)	.4 (10.2)	1.0 (25.4)	.75 (19.05)	One row of holes on $\varnothing$	Non-Adhesive	White	120
181-11021	181-11021	SLA1X1								Adhesive	White	120
181-11013	181-11013	SL1x1								Non-Adhesive	Gray	120
181-11019	181-11019	SLA1X1								Adhesive	Gray	120
181-11009	181-11009	SL1x1								Non-Adhesive	Black	120
181-11016	181-11016	SLA1X1								Adhesive	Black	120
<b>1" x 1.5" (25.4 x 38.1) Nominal Duct Size</b>												
181-11507	181-11507	SL1X1.5	1.02 (25.91)	1.56 (26.1)	1.0 (25.4)	.4 (10.2)	1.0 (25.4)	1.19 (30.2)	One row of holes on $\varnothing$	Non-Adhesive	White	120
181-11511	181-11511	SLA1X1.5								Adhesive	White	120
181-11505	181-11505	SL1X1.5								Non-Adhesive	Gray	120
181-11509	181-11509	SLA1X1.5								Adhesive	Gray	120
181-00552	181-00552	SL1X1.5								Non-Adhesive	Black	120
181-00564	181-00564	SLA1X1.5								Adhesive	Black	120
<b>1" x 2" (25.4 x 50.8) Nominal Duct Size</b>												
181-12008	181-12008	SL1X2	1.03 (26.16)	2.06 (52.32)	1.0 (25.4)	.4 (10.2)	1.0 (25.4)	1.62 (41.1)	One row of holes on $\varnothing$	Non-Adhesive	White	120
181-12013	181-12013	SLA1X2								Adhesive	White	120
181-12005	181-12005	SL1X2								Non-Adhesive	Gray	120
181-12011	181-12011	SLA1X2								Adhesive	Gray	120
181-00024	181-00024	SL1X2								Non-Adhesive	Black	120
181-00565	181-00565	SLA1X2								Adhesive	Black	120
<b>1" x 3" (25.4 x 76.2) Nominal Duct Size</b>												
181-13008	181-13008	SL1X3	1.02 (25.91)	3.06 (77.72)	1.0 (25.4)	.4 (10.2)	1.0 (25.4)	2.6 (66.0)	One row of holes on $\varnothing$	Non-Adhesive	White	120
181-13012	181-13012	SLA1X3								Adhesive	White	120
181-13006	181-13006	SL1X3								Non-Adhesive	Gray	120
181-13010	181-13010	SLA1X3								Adhesive	Gray	120
181-13003	181-13003	SL1X3								Non-Adhesive	Black	120
181-00566	181-00566	SLA1X3								Adhesive	Black	120
<b>1" x 4" (25.4 x 101.6) Nominal Duct Size</b>												
181-14006	181-14006	SL1X4	1.0 (25.4)	4.06 (103.12)	1.0 (25.4)	.4 (10.2)	1.0 (25.4)	3.6 (91.4)	One row of holes on $\varnothing$	Non-Adhesive	White	120
181-00569	181-00569	SLA1X4								Adhesive	White	120
181-14003	181-14003	SL1X4								Non-Adhesive	Gray	120
181-00568	181-00568	SLA1X4								Adhesive	Gray	120
181-14001	181-14001	SL1X4								Non-Adhesive	Black	120
181-00567	181-00567	SLA1X4								Adhesive	Black	120
<b>1.5" x 1" (38.1 x 25.4) Nominal Duct Size</b>												
181-15107	181-15107	SL1.5X1	1.5 (38.1)	1.05 (26.67)	1.5 (38.1)	.4 (10.2)	1.0 (25.4)	.75 (19.1)	One row of holes on $\varnothing$	Non-Adhesive	White	120
181-00572	181-00572	SLA1.5X1								Adhesive	White	120
181-15105	181-15105	SL1.5X1								Non-Adhesive	Gray	120
181-00571	181-00571	SLA1.5X1								Adhesive	Gray	120
181-00548	181-00548	SL1.5X1								Non-Adhesive	Black	120
181-00570	181-00570	SLA1.5X1								Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Slotted wall duct in larger sizes continued on the next page. Covers are listed on page 115.

Slotted Wall Duct



Lead Free File # E64139 File # 49249

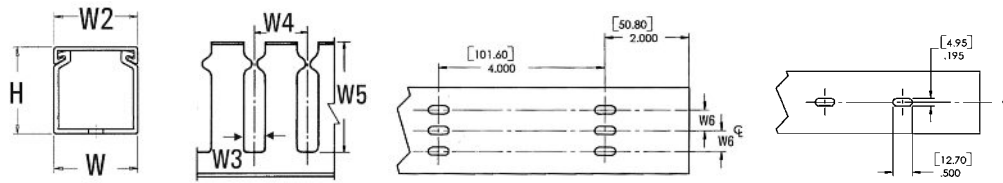
Product Selection

Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W3)	Width (W4)	Width (W5)	Width (W6)	Description	Color	Pkg. Qty. ft. (6 ft. lengths)
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			
<b>1.5" x 1.5" (38.1 x 38.1) Nominal Duct Size</b>												
181-15511	181-15511	SL1.5X1.5	1.52 (38.61)	1.56 (34.6)	1.5 (38.1)	.4 (10.16)	1.0 (25.4)	1.19 (30.2)	One row of holes on ☒	Non-Adhesive	White	120
181-15515	181-15515	SLA1.5X1.5								Adhesive	White	120
181-15509	181-15509	SL1.5X1.5								Non-Adhesive	Gray	120
181-15513	181-15513	SLA1.5X1.5								Adhesive	Gray	120
181-15505	181-15505	SL1.5X1.5								Non-Adhesive	Black	120
181-00027	181-00027	SLA1.5X1.5								Adhesive	Black	120
<b>1.5" x 2" (38.1 x 50.8) Nominal Duct Size</b>												
181-15209	181-15209	SL1.5X2	1.53 (38.86)	2.06 (52.32)	1.5 (38.1)	.4 (10.16)	1.0 (25.4)	1.62 (41.1)	One row of holes on ☒	Non-Adhesive	White	120
181-15213	181-15213	SLA1.5X2								Adhesive	White	120
181-15207	181-15207	SL1.5X2								Non-Adhesive	Gray	120
181-15211	181-15211	SLA1.5X2								Adhesive	Gray	120
181-15203	181-15203	SL1.5X2								Non-Adhesive	Black	120
181-00573	181-00573	SLA1.5X2								Adhesive	Black	120
<b>1.5" x 3" (38.1 x 76.2) Nominal Duct Size</b>												
181-15306	181-15306	SL1.5X3	1.52 (38.61)	3.06 (77.72)	1.5 (38.1)	.4 (10.16)	1.0 (25.4)	2.6 (66.0)	One row of holes on ☒	Non-Adhesive	White	120
181-15308	181-15308	SLA1.5X3								Adhesive	White	120
181-15304	181-15304	SL1.5X3								Non-Adhesive	Gray	120
181-15307	181-15307	SLA1.5X3								Adhesive	Gray	120
181-00550	181-00550	SL1.5X3								Non-Adhesive	Black	120
181-00575	181-00575	SLA1.5X3								Adhesive	Black	120
<b>1.5" x 4" (38.1 x 101.6) Nominal Duct Size</b>												
181-15406	181-15406	SL1.5X4	1.5 (38.1)	4.06 (103.12)	1.5 (38.1)	.4 (10.16)	1.0 (25.4)	3.6 (91.4)	One row of holes on ☒	Non-Adhesive	White	120
181-00578	181-00578	SLA1.5X4								Adhesive	White	120
181-15404	181-15404	SL1.5X4								Non-Adhesive	Gray	120
181-00577	181-00577	SLA1.5X4								Adhesive	Gray	120
181-15400	181-15400	SL1.5X4								Non-Adhesive	Black	120
181-00576	181-00576	SLA1.5X4								Adhesive	Black	120
<b>2" x 1" (50.8 x 25.4) Nominal Duct Size</b>												
181-21007	181-21007	SL2X1	2.01 (51.05)	1.05 (26.7)	2.0 (50.8)	.4 (10.16)	1.0 (25.4)	.75 (19.1)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-00580	181-00580	SLA2X1								Adhesive	White	120
181-21005	181-21005	SL2X1								Non-Adhesive	Gray	120
181-21009	181-21009	SLA2X1								Adhesive	Gray	120
181-00554	181-00554	SL2X1								Non-Adhesive	Black	120
181-00579	181-00579	SLA2X1								Adhesive	Black	120
<b>2" x 2" (50.8 x 50.8) Nominal Duct Size</b>												
181-22028	181-22028	SL2X2	2.03 (51.56)	2.0 (50.8)	2.0 (50.8)	.4 (10.16)	1.0 (25.4)	1.62 (41.1)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-22034	181-22034	SLA2X2								Adhesive	White	120
181-22024	181-22024	SL2x2								Non-Adhesive	Gray	120
181-22032	181-22032	SLA2X2								Adhesive	Gray	120
181-22020	181-22020	SL2x2								Non-Adhesive	Black	120
181-22030	181-22030	SLA2X2								Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Slotted wall duct in larger sizes continued on the next page. Covers are listed on page 115.



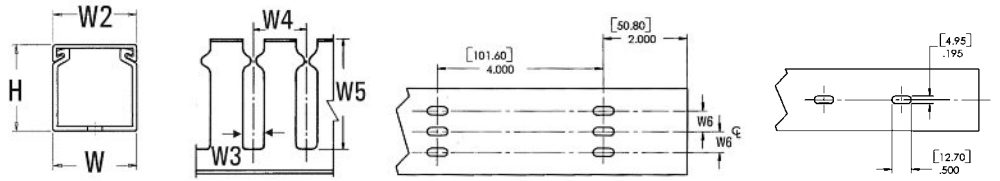
### Slotted Wall Duct



Product Selection			Width (W)	Height (H)	Width (W2)	Width (W3)	Width (W4)	Width (W5)	Width (W6)	Description	Color	Pkg. Qty
Article No.	Part No.	Type	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>2" x 3" (50.8 x 76.2) Nominal Duct Size</b>												
181-23009	181-23009	SL2X3	2.02 (51.3)	3.06 (77.7)	2.0 (50.8)	.4 (10.16)	1.0 (25.4)	2.6 (66.0)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-23012	181-23012	SLA2X3								Adhesive	White	120
181-23007	181-23007	SL2X3								Non-Adhesive	Gray	120
181-00582	181-00582	SLA2X3								Adhesive	Gray	120
181-23003	181-23003	SL2X3								Non-Adhesive	Black	120
181-00581	181-00581	SLA2X3								Adhesive	Black	120
<b>2" x 4" (50.8 x 101.6) Nominal Duct Size</b>												
181-24011	181-24011	SL2X4	2.0 (50.8)	4.06 (103.1)	2.0 (50.8)	.4 (10.16)	1.0 (25.4)	3.6 (91.4)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-24014	181-24014	SLA2X4								Adhesive	White	120
181-24008	181-24008	SL2X4								Non-Adhesive	Gray	120
181-24013	181-24013	SLA2X4								Adhesive	Gray	120
181-24003	181-24003	SL2X4								Non-Adhesive	Black	120
181-00583	181-00583	SLA2X4								Adhesive	Black	120
<b>2" x 5" (50.8 x 127) Nominal Duct Size</b>												
181-00240	181-00240	SL2X5	2.0 (50.8)	5.0 (127)	2.0 (50.8)	.40 (10.2)	1.0 (25.1)	4.6 (116.8)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-00242	181-00242	SLA2X5								Adhesive	White	120
181-00236	181-00236	SL2X5								Non-Adhesive	Gray	120
181-00238	181-00238	SLA2X5								Adhesive	Gray	120
181-00316	181-00316	SL2X5								Non-Adhesive	Black	120
181-00317	181-00317	SLA2X5								Adhesive	Black	120
<b>2.5" x 3" (63.5 x 76.2) Nominal Duct Size</b>												
181-00216	181-00216	SL2.5X3	2.5 (63.5)	3.0 (76.2)	2.5 (63.5)	.4 (10.2)	1.0 (25.1)	2.6 (66.0)	Three rows of holes .75 (19.05)	Non-Adhesive	White	120
181-00218	181-00218	SLA2.5X3								Adhesive	White	120
181-00212	181-00212	SL2.5X3								Non-Adhesive	Gray	120
181-00214	181-00214	SLA2.5X3								Adhesive	Gray	120
181-00318	181-00318	SL2.5X3								Non-Adhesive	Black	120
181-00319	181-00319	SLA2.5X3								Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Slotted wall duct in larger sizes continued on the next page. Covers are listed on page 115.

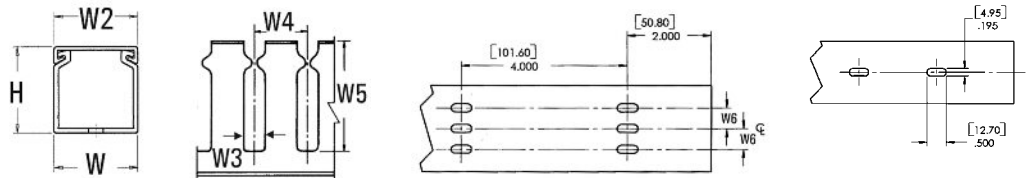
### Slotted Wall Duct



Article No.	Part No.	Type	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Width (W6) in. (mm)	Description	Color	Pkg. Qty ft. (6 ft. lengths)
<b>3" x 1" (76.2 X 25.4) Nominal Duct Size</b>												
181-31007	181-31007	SL3X1	3.04 (77.22)	1.0 (25.4)	3.0 (76.2)	.4 (10.16)	1.0 (25.4)	.75 (19.1)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-00586	181-00586	SLA3X1								Adhesive	White	120
181-00558	181-00558	SL3X1								Non-Adhesive	Gray	120
181-00585	181-00585	SLA3X1								Adhesive	Gray	120
181-00557	181-00557	SL3X1								Non-Adhesive	Black	120
181-00584	181-00584	SLA3X1								Adhesive	Black	120
<b>3" x 2" (76.2 x 50.8) Nominal Duct Size</b>												
181-32009	181-32009	SL3X2	3.03 (76.96)	2.0 (50.8)	3.0 (76.2)	.4 (10.16)	1.0 (25.40)	1.62 (41.1)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-32015	181-32015	SLA3X2								Adhesive	White	120
181-32005	181-32005	SL3X2								Non-Adhesive	Gray	120
181-32012	181-32012	SLA3X2								Adhesive	Gray	120
181-32004	181-32004	SL3X2								Non-Adhesive	Black	120
181-00587	181-00587	SLA3X2								Adhesive	Black	120
<b>3" x 3" (76.2 x 76.2) Nominal Duct Size</b>												
181-33018	181-33018	SL3X3	3.02 (76.71)	3.0 (76.2)	3.0 (76.2)	.4 (10.2)	1.0 (25.1)	2.6 (66.0)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-33022	181-33022	SL3X3								Adhesive	White	120
181-33015	181-33015	SLA3X3								Non-Adhesive	Gray	120
181-33021	181-33021	SLA3X3								Adhesive	Gray	120
181-33009	181-33009	SL3X3								Non-Adhesive	Black	120
181-00159	181-00159	SL3X3								Adhesive	Black	120
<b>3" x 4" (76.2 x 101.6) Nominal Duct Size</b>												
181-34007	181-34007	SL3X4	3.0 (76.2)	4.0 (101.6)	3.0 (76.2)	0.4 (10.2)	1.0 (25.1)	3.6 (91.4)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-00590	181-00590	SL3X4								Adhesive	White	120
181-34004	181-34004	SLA3X4								Non-Adhesive	Gray	120
181-00589	181-00589	SLA3X4								Adhesive	Gray	120
181-34002	181-34002	SL3X4								Non-Adhesive	Black	120
181-00588	181-00588	SL3X4								Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Slotted wall duct in larger sizes continued on the next page. Covers are listed on page 115.

Slotted Wall Duct

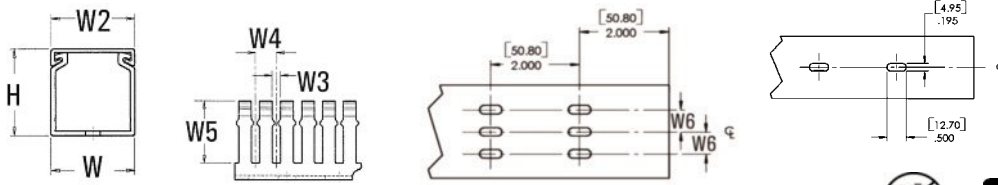


Product Selection

Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W3)	Width (W4)	Width (W5)	Width (W6)	Description	Color	Pkg. Qty.
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>3" x 5" (76.2 x 127.0) Nominal Duct Size</b>												
181-00560	181-00560	SL3X5	3.0 (76.2)	5.0 (127.0)	3.0 (76.2)	.4 (10.16)	1.0 (25.4)	4.6 (116.8)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	60
181-00156	181-00156	SLA3X5								Adhesive	White	60
181-35005	181-35005	SL3X5								Non-Adhesive	Gray	60
181-00155	181-00155	SLA3X5								Adhesive	Gray	60
181-35002	181-35002	SL3X5								Non-Adhesive	Black	60
181-00157	181-00157	SLA3X5								Adhesive	Black	60
<b>4" x 2" (101.6 x 50.8) Nominal Duct Size</b>												
181-42010	181-42010	SL4X2	4.03 (102.36)	2.06 (52.3)	4.0 (101.6)	.4 (10.16)	1.0 (25.4)	1.62 (41.1)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	120
181-42014	181-42014	SLA4X2								Adhesive	White	120
181-42008	181-42008	SL4X2								Non-Adhesive	Gray	120
181-00592	181-00592	SLA4X2								Adhesive	Gray	120
181-42005	181-42005	SL4X2								Non-Adhesive	Black	120
181-00591	181-00591	SLA4X2								Adhesive	Black	120
<b>4" x 3" (101.6 x 76.2) Nominal Duct Size</b>												
181-43006	181-43006	SL4X3	4.03 (102.36)	3.0 (76.2)	4.0 (101.6)	.4 (10.16)	1.0 (25.4)	2.6 (66.0)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	120
181-00594	181-00594	SLA4X3								Adhesive	White	120
181-43004	181-43004	SL4X3								Non-Adhesive	Gray	120
181-43008	181-43008	SLA4X3								Adhesive	Gray	120
181-00562	181-00562	SL4X3								Non-Adhesive	Black	120
181-00593	181-00593	SLA4X3								Adhesive	Black	120
<b>4" x 4" (101.6 x 101.6) Nominal Duct Size</b>												
181-44031	181-44031	SL4X4	4.0 (101.6)	4.0 (101.6)	4.0 (101.6)	.4 (10.16)	1.0 (25.4)	3.6 (91.4)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	120
181-44035	181-44035	SLA4X4								Adhesive	White	120
181-44027	181-44027	SL4X4								Non-Adhesive	Gray	120
181-44033	181-44033	SLA4X4								Adhesive	Gray	120
181-44020	181-44020	SL4X4								Non-Adhesive	Black	120
181-00595	181-00595	SLA4X4								Adhesive	Black	120
<b>4" x 5" (101.6 x 127) Nominal Duct Size</b>												
181-45011	181-45011	SL4X5	4.0 (101.6)	5.06 (128.52)	4.0 (101.6)	.4 (10.16)	1.0 (25.4)	4.6 (116.8)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	60
181-45013	181-45013	SLA4X5								Adhesive	White	60
181-45010	181-45010	SL4X5								Non-Adhesive	Gray	60
181-00596	181-00596	SLA4X5								Adhesive	Gray	60
181-45002	181-45002	SL4X5								Non-Adhesive	Black	60
181-45012	181-45012	SLA4X5								Adhesive	Black	60

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Covers are listed on page 115.

### High Density Slotted Duct



Lead Free File # E64139 File # 49249

Product Selection

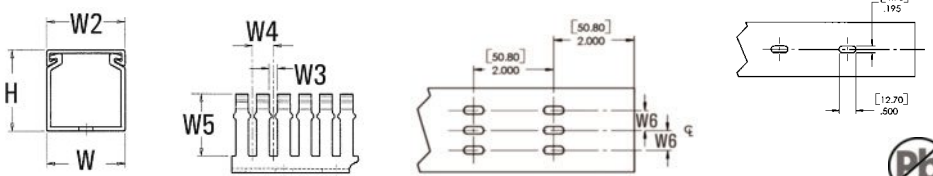
Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W3)	Width (W4)	Width (W5)	Width (W6)	Description	Color	Pkg. Qty.
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>1" x 1" (25.4 x 25.4) Nominal Duct Size</b>												
184-11006	184-11006	SLHD1X1	1.0 (25.4)	1.05 (26.7)	1.0 (25.4)	.16 (4.1)	.4 (10.2)	.75 (19.1)	One row of holes on $\Phi$	Non-Adhesive	White	120
181-00622	181-00622	SLHDA1X1								Adhesive	White	120
184-11004	184-11004	SLHD1X1								Non-Adhesive	Gray	120
181-00621	181-00621	SLHDA1X1								Adhesive	Gray	120
181-00597	181-00597	SLHD1X1								Non-Adhesive	Black	120
181-00637	181-00637	SLHDA1X1								Adhesive	Black	120
<b>1" x 1.5" (25.4 x 38.1) Nominal Duct Size</b>												
184-11012	184-11012	SLHD1X1.5	1.02 (25.9)	1.56 (39.6)	1.0 (25.4)	.16 (4.1)	.4 (10.2)	1.19 (30.2)	One row of holes on $\Phi$	Non-Adhesive	White	120
184-11009	184-11009	SLHDA1X1.5								Adhesive	White	120
184-11010	184-11010	SLHD1X1.5								Non-Adhesive	Gray	120
184-11008	184-11008	SLHDA1X1.5								Adhesive	Gray	120
181-00598	181-00598	SLHD1X1.5								Non-Adhesive	Black	120
181-00623	181-00623	SLHDA1X1.5								Adhesive	Black	120
<b>1" x 2" (25.4 x 50.8) Nominal Duct Size</b>												
184-12007	184-12007	SLHD1X2	1.03 (26.2)	2.06 (52.3)	1.0 (25.4)	.16 (4.1)	.4 (10.2)	1.62 (41.1)	One row of holes on $\Phi$	Non-Adhesive	White	120
184-12004	184-12004	SLHDA1X2								Adhesive	White	120
184-12005	184-12005	SLHD1X2								Non-Adhesive	Gray	120
184-12002	184-12002	SLHDA1X2								Adhesive	Gray	120
181-00599	181-00599	SLHD1X2								Non-Adhesive	Black	120
181-00624	181-00624	SLHDA1X2								Adhesive	Black	120
<b>1" x 3" (25.4 x 76.2) Nominal Duct Size</b>												
184-13007	184-13007	SLHD1X3	1.02 (25.9)	3.06 (77.7)	1.0 (25.4)	.16 (4.1)	.4 (10.2)	2.6 (66.0)	One row of holes on $\Phi$	Non-Adhesive	White	120
184-13003	184-13003	SLHDA1X3								Adhesive	White	120
184-13005	184-13005	SLHD1X3								Non-Adhesive	Gray	120
181-00626	181-00626	SLHDA1X3								Adhesive	Gray	120
181-00600	181-00600	SLHD1X3								Non-Adhesive	Black	120
181-00625	181-00625	SLHDA1X3								Adhesive	Black	120
<b>1" x 4" (25.4 x 101.6) Nominal Duct Size</b>												
184-14004	184-14004	SLHD1X4	1.0 (25.4)	4.06 (103.1)	1.0 (25.4)	.16 (4.1)	.4 (10.2)	3.6 (91.4)	One row of holes on $\Phi$	Non-Adhesive	White	120
181-00629	181-00629	SLHDA1X4								Adhesive	White	120
184-14002	184-14002	SLHD1X4								Non-Adhesive	Gray	120
181-00628	181-00628	SLHDA1X4								Adhesive	Gray	120
181-00601	181-00601	SLHD1X4								Non-Adhesive	Black	120
181-00627	181-00627	SLHDA1X4								Adhesive	Black	120
<b>1.5" x 1" (38.1 x 25.4) Nominal Duct Size</b>												
184-15102	184-15102	SLHD1.5X1	1.5 (38.1)	1.05 (26.7)	1.5 (38.1)	.16 (4.1)	.4 (10.2)	.75 (19.1)	One row of holes on $\Phi$	Non-Adhesive	White	120
181-00632	181-00632	SLHDA1.5X1								Adhesive	White	120
184-15101	184-15101	SLHD1.5X1								Non-Adhesive	Gray	120
181-00631	181-00631	SLHDA1.5X1								Adhesive	Gray	120
181-00602	181-00602	SLHD1.5X1								Non-Adhesive	Black	120
181-00630	181-00630	SLHDA1.5X1								Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. High density slotted wall duct in larger sizes continued on the next page. Covers are listed on page 115.

For product information visit or [www.hellermann.tyton.com](http://www.hellermann.tyton.com) or call 800-537-1512



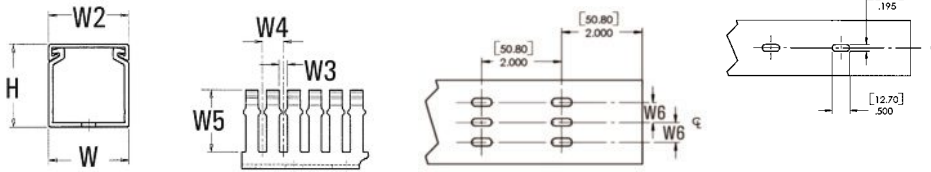
### High Density Slotted Duct



Product Selection												
Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W3)	Width (W4)	Width (W5)	Width (W6)	Description	Color	Pkg. Qty. ft. (6 ft. lengths)
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			
<b>1.5" x 1.5" (38.1 x 38.1) Nominal Duct Size</b>												
184-15155	184-15155	SLHD1.5X1.5	1.52 (38.6)	1.56 (39.6)	1.5 (38.1)	.16 (4.1)	.4 (10.2)	1.19 (30.2)	One row of holes on $\text{€}$	Non-Adhesive	White	120
184-15153	184-15153	SLHDA1.5X1.5								Adhesive	White	120
184-15152	184-15152	SLHD1.5X1.5								Non-Adhesive	Gray	120
184-15151	184-15151	SLHDA1.5X1.5								Adhesive	Gray	120
181-00603	181-00603	SLHD1.5X1.5								Non-Adhesive	Black	120
181-00633	181-00633	SLHD1.5X1.5								Adhesive	Black	120
<b>1.5" x 2" (38.1 x 50.8) Nominal Duct Size</b>												
184-15206	184-15206	SLHD1.5X2	1.53 (38.9)	2.06 (52.3)	1.5 (38.1)	.16 (4.1)	.4 (10.2)	1.62 (41.1)	One row of holes on $\text{€}$	Non-Adhesive	White	120
184-15205	184-15205	SLHDA1.5X2								Adhesive	White	120
184-15202	184-15202	SLHD1.5X2								Non-Adhesive	Gray	120
184-15201	184-15201	SLHDA1.5X2								Adhesive	Gray	120
181-00604	181-00604	SLHD1.5X2								Non-Adhesive	Black	120
181-00634	181-00634	SLHDA1.5X2								Adhesive	Black	120
<b>1.5" x 3" (38.1 x 76.2) Nominal Duct Size</b>												
184-15304	184-15304	SLHD1.5X3	1.52 (38.6)	3.06 (77.7)	1.5 (38.1)	.16 (4.1)	.4 (10.2)	2.6 (66.0)	One row of holes on $\text{€}$	Non-Adhesive	White	120
184-15301	184-15301	SLHDA1.5X3								Adhesive	White	120
184-15302	184-15302	SLHD1.5X3								Non-Adhesive	Gray	120
181-00636	181-00636	SLHDA1.5X3								Adhesive	Gray	120
181-00605	181-00605	SLHD1.5X3								Non-Adhesive	Black	120
181-00635	181-00635	SLHDA1.5X3								Adhesive	Black	120
<b>1.5" x 4" (38.1 x 101.6) Nominal Duct Size</b>												
184-15403	184-15403	SLHD1.5X4	1.5 (38.1)	4.06 (103.1)	1.5 (38.1)	.16 (4.1)	.4 (10.2)	3.6 (91.4)	One row of holes on $\text{€}$	Non-Adhesive	White	120
181-00639	181-00639	SLHDA1.5X4								Adhesive	White	120
184-15401	184-15401	SLHD1.5X4								Non-Adhesive	Gray	120
181-00638	181-00638	SLHDA1.5X4								Adhesive	Gray	120
181-00606	181-00606	SLHD1.5X4								Non-Adhesive	Black	120
181-00620	181-00620	SLHDA1.5X4								Adhesive	Black	120
<b>2" x 1" (50.8 x 25.4) Nominal Duct Size</b>												
184-21003	184-21003	SLHD2X1	2.01 (51.1)	1.05 (26.7)	2.0 (50.8)	.16 (4.1)	.4 (10.2)	.75 (19.1)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-00642	181-00642	SLHDA2X1								Adhesive	White	120
184-21002	184-21002	SLHD2X1								Non-Adhesive	Gray	120
181-00641	181-00641	SLHDA2X1								Adhesive	Gray	120
181-00607	181-00607	SLHD2X1								Non-Adhesive	Black	120
181-00640	181-00640	SLHDA2X1								Adhesive	Black	120
<b>2" x 2" (50.8 x 50.8) Nominal Duct Size</b>												
184-22008	184-22008	SLHD2X2	2.03 (51.6)	2.06 (52.3)	2.0 (50.8)	.16 (4.1)	.4 (10.2)	1.62 (41.1)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
184-22003	184-22003	SLHDA2X2								Adhesive	White	120
184-22005	184-22005	SLHD2X2								Non-Adhesive	Gray	120
181-00644	181-00644	SLHDA2X2								Adhesive	Gray	120
181-00608	181-00608	SLHD2X2								Non-Adhesive	Black	120
181-00643	181-00643	SLHDA2X2								Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. High density slotted wall duct in larger sizes continued on the next page. Covers are listed on page 115.

### High Density Slotted Duct

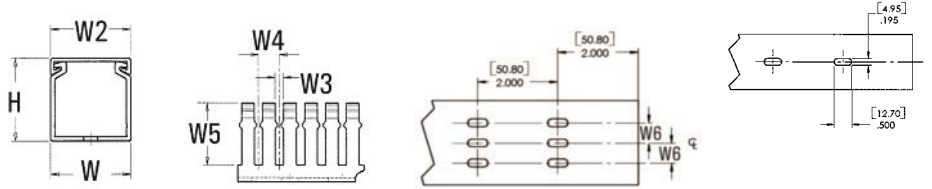


Product Selection

Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W3)	Width (W4)	Width (W5)	Width (W6)	Description	Color	Pkg. Qty
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>2" x 3" (50.8 x 76.2) Nominal Duct Size</b>												
184-23006	184-23006	SLHD2X3	2.02 (51.3)	3.06 (77.7)	2.0 (50.8)	.16 (4.1)	.4 (10.2)	2.6 (66.0)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
184-23003	184-23003	SLHDA2X3								Adhesive	White	120
184-23004	184-23004	SLHD2X3								Non-Adhesive	Gray	120
181-00646	181-00646	SLHDA2X3								Adhesive	Gray	120
181-00609	181-00609	SLHD2X3								Non-Adhesive	Black	120
181-00645	181-00645	SLHDA2X3								Adhesive	Black	120
<b>2" x 4" (50.8 x 101.6) Nominal Duct Size</b>												
184-24007	184-24007	SLHD2X4	2.0 (50.8)	4.06 (103.1)	2.0 (50.8)	.16 (4.1)	.4 (10.2)	3.6 (91.4)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
184-24003	184-24003	SLHDA2X4								Adhesive	White	120
184-24004	184-24004	SLHD2X4								Non-Adhesive	Gray	120
181-00648	181-00648	SLHDA2X4								Adhesive	Gray	120
181-00610	181-00610	SLHD2X4								Non-Adhesive	Black	120
181-00647	181-00647	SLHDA2X4								Adhesive	Black	120
<b>2" x 5" (50.8 x 127) Nominal Duct Size</b>												
181-00265	181-00265	SLHD2X5	2.0 (50.8)	5.0 (127.0)	2.0 (50.8)	.16 (4.1)	.4 (10.2)	4.6 (116.8)	Three rows of holes .5 (12.7)	Non-Adhesive	White	120
181-00259	181-00259	SLHDA2X5								Adhesive	White	120
181-00252	181-00252	SLHD2X5								Non-Adhesive	Gray	120
181-00254	181-00254	SLHDA2X5								Adhesive	Gray	120
181-00320	181-00320	SLHD2X5								Non-Adhesive	Black	120
181-00321	181-00321	SLHDA2X5								Adhesive	Black	120
<b>2.5" x 3" (63.5 x 76.2) Nominal Duct Size</b>												
181-00232	181-00232	SLHD2.5X3	2.5 (63.5)	3.0 (76.2)	2.5 (63.5)	.16 (4.1)	.4 (10.2)	2.6 (66.0)	Three rows of holes .75 (19.05)	Non-Adhesive	White	120
181-00234	181-00234	SLHDA2.5X3								Adhesive	White	120
181-00228	181-00228	SLHD2.5X3								Non-Adhesive	Gray	120
181-00230	181-00230	SLHDA2.5X3								Adhesive	Gray	120
181-00322	181-00322	SLHD2.5X3								Non-Adhesive	Black	120
181-00323	181-00323	SLHDA2.5X3								Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. High density slotted wall duct in larger sizes continued on the next page. Covers are listed on page 115.

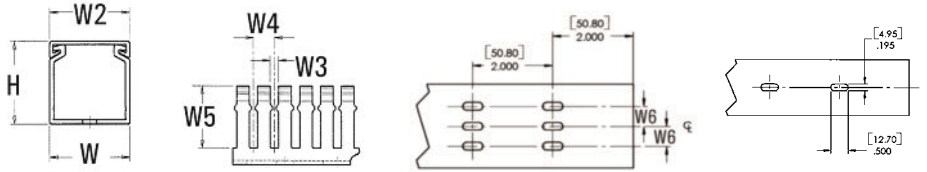
### High Density Slotted Duct



Article No.	Part No.	Type	Width (W) in. (mm)	Height (H) in. (mm)	Width (W2) in. (mm)	Width (W3) in. (mm)	Width (W4) in. (mm)	Width (W5) in. (mm)	Width (W6) in. (mm)	Description	Color	Pkg. Qty ft. (6 ft. lengths)
<b>3" x 1" (76.2 x 25.4) Nominal Duct Size</b>												
181-00613	181-00613	SLHD3X1	3.02 (76.7)	1.0 (25.4)	3.0 (76.2)	.16 (4.1)	.4 (10.2)	.75 (19.1)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-00652	181-00652	SLHDA3X1								Adhesive	White	120
181-00612	181-00612	SLHD3X1								Non-Adhesive	Gray	120
181-00651	181-00651	SLHDA3X1								Adhesive	Gray	120
181-00611	181-00611	SLHD3X1								Non-Adhesive	Black	120
181-00649	181-00649	SLHDA3X1								Adhesive	Black	120
<b>3" x 2" (76.2 x 50.8) Nominal Duct Size</b>												
184-32004	184-32004	SLHD3X2	3.03 (76.96)	2.06 (52.3)	3.0 (76.2)	.16 (4.1)	.4 (10.2)	1.62 (41.1)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
181-00655	181-00655	SLHDA3X2								Adhesive	White	120
184-32001	184-32001	SLHD3X2								Non-Adhesive	Gray	120
181-00654	181-00654	SLHDA3X2								Adhesive	Gray	120
181-00614	181-00614	SLHD3X2								Non-Adhesive	Black	120
181-00653	181-00653	SLHDA3X2								Adhesive	Black	120
<b>3" x 3" (76.2 x 76.2) Nominal Duct Size</b>												
184-33004	184-33004	SLHD3X3	3.02 (76.71)	3.06 (77.7)	3.0 (76.2)	.16 (4.1)	.4 (10.2)	2.6 (66.0)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
184-33001	184-33001	SLHD3X3								Adhesive	White	120
184-33002	184-33002	SLHDA3X3								Non-Adhesive	Gray	120
181-00657	181-00657	SLHDA3X3								Adhesive	Gray	120
181-00615	181-00615	SLHD3X3								Non-Adhesive	Black	120
181-00656	181-00656	SLHD3X3								Adhesive	Black	120
<b>3" x 4" (76.2 x 101.6) Nominal Duct Size</b>												
184-34005	184-34005	SLHD3X4	3.0 (76.2)	4.06 (103.1)	3.0 (76.2)	.16 (4.1)	.4 (10.2)	3.6 (91.4)	Three rows of holes 1.0 (25.4)	Non-Adhesive	White	120
184-34001	184-34001	SLHD3X4								Adhesive	White	120
184-34003	184-34003	SLHDA3X4								Non-Adhesive	Gray	120
181-00659	181-00659	SLHDA3X4								Adhesive	Gray	120
181-00616	181-00616	SLHD3X4								Non-Adhesive	Black	120
181-00658	181-00658	SLHD3X4								Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. High density slotted wall duct in larger sizes continued on the next page. Covers are listed on page 115.

### High Density Slotted Duct



Lead Free File # E64139 File # 49249

Product Selection

Article No.	Part No.	Type	Width (W)	Height (H)	Width (W2)	Width (W3)	Width (W4)	Width (W5)	Width (W6)	Description	Color	Pkg. Qty.
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)			ft. (6 ft. lengths)
<b>4" x 2" (101.6 x 50.8) Nominal Duct Size</b>												
184-42003	184-42003	SLHD4X2	4.03 (102.4)	2.06 (52.3)	4.0 (101.6)	.16 (4.1)	.40 (10.2)	1.62 (41.1)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	120
181-00665	181-00665	SLHDA4X2								Adhesive	White	120
184-42001	184-42001	SLHD4X2								Non-Adhesive	Gray	120
181-00664	181-00664	SLHDA4X2								Adhesive	Gray	120
181-00617	181-00617	SLHD4X2								Non-Adhesive	Black	120
181-00663	181-00663	SLHDA4X2								Adhesive	Black	120
<b>4" x 3" (101.6 x 76.2) Nominal Duct Size</b>												
184-43003	184-43003	SLHD4X3	4.03 (102.4)	3.06 (77.7)	4.0 (101.6)	.16 (4.1)	.4 (10.2)	2.6 (66.0)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	120
181-00152	181-00152	SLHDA4X3								Adhesive	White	120
184-43001	184-43001	SLHD4X3								Non-Adhesive	Gray	120
181-00153	181-00153	SLHDA4X3								Adhesive	Gray	120
181-00618	181-00618	SLHD4X2								Non-Adhesive	Black	120
181-00154	181-00154	SLHDA4X3								Adhesive	Black	120
<b>4" x 4" (101.6 x 101.6) Nominal Duct Size</b>												
184-44004	184-44004	SLHD4X4	4.0 (101.6)	4.06 (103.1)	4.0 (101.6)	.16 (4.1)	.4 (10.2)	3.6 (91.4)	Three rows of holes 1.5 (38.1)	Non-Adhesive	White	120
184-44001	184-44001	SLHDA4X4								Adhesive	White	120
184-44002	184-44002	SLHD4X4								Non-Adhesive	Gray	120
181-00667	181-00667	SLHDA4X4								Adhesive	Gray	120
181-00619	181-00619	SLHD4X4								Non-Adhesive	Black	120
181-00666	181-00666	SLHDA4X4								Adhesive	Black	120

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes. Covers are listed on page 115.

## Material Properties and Capacity Chart

Wiring Duct Material Properties

Physical Properties	Material	ASTM Method	Test Units	Test Results
Specific Gravity (Gray)	PVC	D-792	—	1.4
Durometer Hardness	PVC	D-2240	Shore Hardness	77D
Flexural Strength	PVC	D-790	psi	9,900
Modulus of Elasticity (Tension)	PVC	D-638	psi	351,000
Continuous Operating Temperature	PVC	UL746B	°F (°C)	122 (50)
Heat Deflection Temperature (264 psi)	PVC	D-648	°F (°C)	161 (72)
Tensile Strength (+73°F)	PVC	D-638	psi	6,500
Izod Impact Strength (+73°F)	PVC	D-256	ft. lbs./in. notch	15
Flame Resistance	PVC	D-635	—	Self-extinguishing
UL Standard 94	PVC		.029 and .062	94V-O



Wiring Capacity

Duct Size (W"xH")	Duct Area (Sq. In.)	ELECTRICAL							DATA		
		10 AWG	12 AWG	14AWG	14AWG	16 AWG	18 AWG	22 AWG	CAT 5E	CAT 6	CAT 6A
		WIRE O.D.									
		0.176	0.158	0.165	0.139	0.125	0.113	0.065	0.217	0.240	0.354
.5x.5	0.18	4	5	4	6	7	9	27	2	2	1
.5x1	0.38	8	10	9	13	15	19	57	5	4	2
.75x.75	0.28	6	7	7	9	11	14	42	4	3	1
1x1	0.735	15	19	17	24	30	37	111	10	8	4
1x1.5	1.135	23	29	27	37	46	57	171	15	13	6
1x2	1.515	31	39	35	50	62	76	228	20	17	8
1x3	2.22	46	57	52	73	90	111	335	30	25	11
1x4	2.936	60	75	69	97	120	146	443	40	32	15
1.5x1	1.205	25	31	28	40	49	60	182	16	13	6
1.5x1.5	1.85	38	47	43	61	75	92	279	25	20	9
1.5x2	2.475	51	63	58	82	101	123	373	33	27	13
1.5x3	3.669	75	94	86	121	150	183	553	50	41	19
1.5x4	4.881	100	125	114	161	199	243	736	66	54	25
2x1	1.678	35	43	39	55	68	84	253	23	19	9
2x2	3.438	71	88	80	113	140	171	518	47	38	17
2x3	5.122	105	131	120	169	209	255	772	69	57	26
2x4	6.829	140	174	160	225	278	341	1030	92	76	35
2x5	8.488	175	217	199	280	346	423	1280	115	94	43
2.5x3	6.564	135	167	154	216	268	327	990	89	73	33
3x1	2.57	53	66	60	85	105	128	388	35	28	13
3x2	5.36	110	137	125	177	219	268	809	73	59	27
3x3	8.03	165	205	188	265	327	400	1210	109	89	41
3x4	10.72	221	274	251	354	437	535	1617	145	119	55
3x5	13.38	275	341	313	441	546	668	2017	181	148	68
4x2	7.288	150	186	171	240	297	364	1099	99	81	37
4x3	10.932	225	279	256	360	446	545	1648	148	121	56
4x4	14.62	301	373	342	482	596	729	2204	198	162	74
4x5	18.27	375	466	427	602	745	911	2754	247	202	93
6x4	22.4	461	572	524	739	913	1117	3377	303	248	114
8x4	30.16	620	770	706	994	1230	1505	4548	408	334	153

Formula used to calculate fill capacity: Number of wires = duct area / (1.57 x (wire o.d.)<sup>2</sup>) or duct area x (0.637/(wire o.d.)<sup>2</sup>) \* 50% Fill Capacity

### Helawrap Cable Management System

Helawrap is the flexible and complete solution for bundling, protecting and securing cables and wires in industrial, datacom and electrical applications. Material options include both rugged Polypropylene (PP) and flame retardant Polyamide 6 V0 (PA6V0). Helawrap bases and clips are specifically designed to organize Helawrap sleeving, which can be affixed effectively anywhere. An installation tool is available for quick and effortless assembly over long cable lengths.

#### Application

Helawrap is designed to bundle and protect cable assemblies in the electrical industry, in panel building, on machines, transportation, electronics, and in industrial automation applications—especially within environments where movement and vibration are experienced. The easy branch-out feature and flexible sleeving also protect against unintentional bending of critical data transmission cables, making it ideal for sensitive data networking applications. Helawrap Polyamide 6 V0 is available for applications that require flame retardant properties.

#### Benefits

- Unique open design allows for easy branch-offs at any point along the harness.
- Overwrap formation provides abrasion protection and accommodates multiple bundle configurations.
- Flexible construction and design is well suited for applications that involve movement and vibration.
- Innovative split shape allows for future access without disassembly.
- Eliminates pinch points and minimizes bending fatigue to wires and cables.
- Easy to use installation tool makes assembly fast and easy.
- Specially-designed swivel clips and bases help hold Helawrap sleeving in place.



The protection and affixing of cables in a wiring cabinet with Helawrap sleeving.



Cables can be branched off at any point for better, more flexible protection.

Material Data	
Series	HWPP
Material	Polypropylene (PP)
Operating Temperature	-76° F to +230° F, Intermittent -60° C to +110° C, Intermittent
Melt Point	284° F / +140° C
Flammability	UL 94 HB



Material Data	
Series	HWP6-V0 Flame Retardant
Material	Polyamide 6 V0 (PA6V0)
Operating Temperature	-40° F to +194° F, Intermittent -40° C to +90° C, Intermittent
Melt Point	248° F / +120° C
Flammability	UL 94 V0





## HWPP Series - Polypropylene (PP)

Flexible cable protection for applications that require movement or vibration.

Product Selection		Nominal Size		Type	Minimum Bundle Diameter		Maximum Bundle Diameter		Color	Package Quantity per Carton		Wall Thickness		Weight (est)	
Part No.	In.	mm.	in.		mm.	in.	mm.	ft.		m.	in.	mm.	lbs.	kg.	
161-64112	.25	8	HWPP8	0.28	7	0.36	9	Black	100	30.5	0.029	0.75	1.61	0.73	
161-64213	.5	16	HWPP16	0.51	13	0.63	16	Black	100	30.5	0.031	0.80	2.55	1.16	
161-64310	.75	20	HWPP20	0.71	18	0.83	21	Black	100	30.5	0.037	0.95	2.56	1.18	
161-64414	1	25	HWPP25	0.91	23	1.06	27	Black	100	30.5	0.041	1.05	6.45	2.93	
161-64507	1.25	30	HWPP30	1.14	29	1.26	32	Black	100	30.5	0.051	1.30	9.68	4.39	

Each package will include one corresponding application tool (HAT). Use Part No. for ordering and Type for specification purposes.

## HWP6-V0 Series - Polyamide 6 V0 (PA6V0)

Flexible cable protection in dynamic conditions where flame retardant properties are required.

Product Selection		Nominal Size		Type	Minimum Bundle Diameter		Maximum Bundle Diameter		Color	Package Quantity per Carton		Wall Thickness		Weight (est)	
Part No.	In.	mm.	in.		mm.	in.	mm.	ft.		m.	in.	mm.	lbs.	kg.	
161-63103	.25	8	HWP6V08	0.28	7	0.36	9	Black	100	30.5	0.033	0.85	2.66	1.21	
161-63203	.5	16	HWP6V016	0.51	13	0.63	16	Black	100	30.5	0.033	0.85	3.95	1.79	
161-63303	.75	20	HWP6V020	0.71	18	0.83	21	Black	100	30.5	0.037	0.95	5.73	2.6	
161-63403	1	25	HWP6V025	0.91	23	1.06	27	Black	100	30.5	0.041	1.05	8.06	3.66	
161-63503	1.25	30	HWP6V030	1.14	29	1.26	32	Black	100	30.5	0.041	1.05	9.83	4.46	

Use Part No. for ordering and Type for specification purposes.



## Helawrap Accessories HWClips and HWBases

Helawrap accessories consist of retaining clips and mounting plates designed specifically for the Helawrap cable sleeving. Each size clip is designed to fit with its corresponding Helawrap sleeving diameter (i.e. use HWCLIP16 with HWPP16).



Material Data	
Series	HWCLIP
Material	Polyamide 6.6 High Impact Modified Heat Stabilized (PA66HIRHS)
Operating Temperature	-40° F to +221° F, Intermittent -40° C to +105° C, Intermittent
Melt Point	284° F / +140° C
Flammability	UL 94 HB



### Clips

Helawrap accessory clips and mounting plates can be linked together to bundle, protect and secure any number of cables on industrial machines, as well as in the door area of an automation wiring cabinet where repeated movement occurs.

Each clip size sits snugly around the corresponding Helawrap sleeving and holds it firmly in place. With an innovative coupling system, each clip is to be joined to a mounting plate or another clip of any size. Many clips can be linked together and each can turn freely. As a result, any number of differing cable sizes can be bundled together.



Multiple clips can be joined. Clips swivel freely.



For secure hold, R1 loop can be used (for HWClip25 and HWClip30 only).

Product Selection		Nominal size		Type	Color	Pack Count	Weight	
Part No.		in.	mm.				lbs.	kg.
161-64002		.5	8	HWCLIP08	Black	50	0.19	0.09
161-64004		.75	16	HWCLIP16	Black	50	0.3	0.14
161-64006		1.25	20	HWCLIP20	Black	50	0.35	0.16
161-64008		2	25	HWCLIP25	Black	50	0.42	0.19
161-64010		2.5	30	HWCLIP30	Black	50	0.5	0.23
201-20010		----	----	R1	Black	500	0.67	0.3

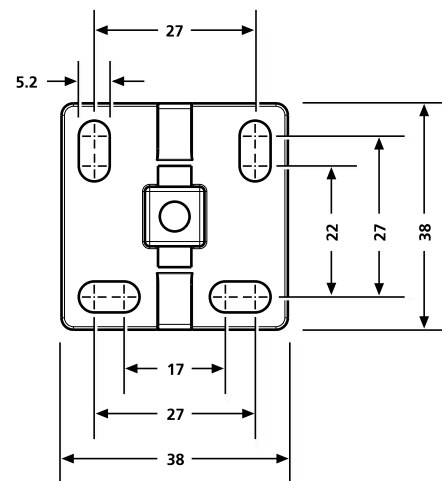
Use Part No. for ordering and Type for specification purposes.

### Bases

With the highly adaptable mounting plate, cables can be protected alongside most existing structures and installations. The plate can be affixed with screws, with a cable tie threaded through or around the base of the plate, or with an adhesive to provide a long-lasting hold.

#### Benefits

- An innovative coupling system allows for an unlimited number of bundling combinations.
- Clips can be easily released and re-used.
- Clips swivel freely which reduces mechanical stress and eliminates pinch points.
- High Impact Polyamide 6.6 material provides firm fit even in rugged conditions.
- An R1 strap can be stretched over larger clips to provide a tight hold in rugged industrial applications.
- Consists of acrylate adhesive with base of polyurethane foam allowing it to adhere firmly and easily to nearly any surface.



Product Selection		Adhesive	Type	Color	Pack Count	Weight	
Part No.						lbs.	kg.
161-64012		Acrylate with base of Polyurethane foam	HWBASEA	Black	50	0.35	0.16
161-64014		----	HWBASE	Black	50	0.31	0.14

Use Part No. for ordering and Type for specification purposes.

## Application Tool (HAT)

The Helawrap applicator tool enables the end user to bundle cable rapidly and effortlessly. The applicator tool has been optimized to glide smoothly through the sleeving and allows easy insertion of cable into the Helawrap sleeving. The unique design also allows individual cables to be removed from the applicator tool and branched off through the sleeve opening. A tool is included with every Helawrap package.

Product Selection	Use with Nominal Size		Type	Color	Pack Count	Weight	
	in.	mm.				lbs.	kg.
161-60001	.25	8	HAT8	Blue	10	0.078	0.035
161-60002	.5	16	HAT16	Blue	10	0.27	0.122
161-60003	.75	20	HAT20	Blue	10	0.45	0.204
161-60004	1.0	25	HAT25	Blue	10	0.71	0.321
161-60005	1.25	30	HAT30	Blue	10	0.77	0.348

Use Part No. for ordering and Type for specification purposes.



Applicator tools HAT are available for every Helawrap sleeving size.



Insert one or more cables into the insertion slot of the applicator tool.



Place the applicator tool in one end of the Helawrap cable sleeving.



Simply slide the applicator tool through the Helawrap sleeving.

## Split Wrap Installation Tool

This installation tool is designed especially for post installation or retrofit applications. The Split Wrap tool has a twist barrel design that allows the tool to be inserted over a wire bundle that is currently in place. There is no need to disassemble the harness to add the Helawrap sleeving. Simply twist the white barrel to its open position, insert the bundle, twist the barrel to its closed position and pull the tool through the Helawrap sleeving. Wires can be branched off at any point by twisting the white barrel open at the desired location and removing the wires.

Product Selection	Use With Nominal Size		Type	Color	Pack Count	Weight	
	in.	mm.				lbs.	kg.
170-03067	.25	8	BSWTOOL14	Orange	1	0.03	0.014
170-03032	.5	16	BSWTOOL12	Orange	1	0.03	0.014
170-03068	.75	20	BSWTOOL34	Orange	1	0.04	0.018
170-03033	1.0	25	BSWTOOL1	Orange	1	0.05	0.023
170-03034	1.25	30	BSWTOOL114	Orange	1	0.06	0.028

Purchased separately. Use Part No. for ordering and Type for specification purposes.



## Spiralwrap

Spiralwrap protective sheathing allows flexible routing and lead-out of cables. The inner edges are beveled to prevent damage to cables. U.L. Recognized Spiralwrap is reusable and resistant to most chemicals. Natural and black are standard colors (see material descriptions). Colors may be available dependent upon volume requirements. Contact HellermannTyton for more information.

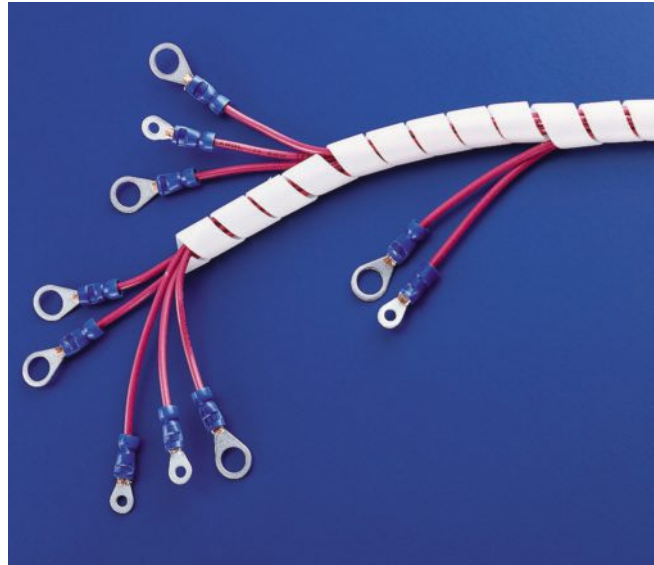
### Application

**Control Cabinet Doors:** Protects cable from friction when one end of the cable is fastened within the panel and the other is fastened to the panel door. Allows flexibility and prevents wire chafing when door is opened and closed.

**Robotics:** Protects hoses and wires during movement.

**Pneumatic Hoses:** Protects hoses from abrasion while on semi-trucks and other vehicles.

**Spark Plug Wires:** Lengthens the life of spark plug wires by reducing abrasion to wire insulation.



### Installation

Spiralwrap can be installed in two basic ways:

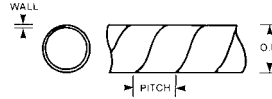
In a gapped installation, Spiralwrap is wrapped with space between the sheathing. This accommodates wire breakouts and also keeps the wire bundle flexible.

In a butted installation, Spiralwrap is wrapped so the sheathing completely insulates the wire bundle. This provides superior abrasion resistance and additional rigidity.

Polyethylene (PE)	Size					
	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Color						
Brown (1)	X	X		X		
Red (2)	X		X	X	X	X
Orange (3)	X		X			
Yellow (4)	X	X	X	X	X	X
Green (5)	X	X	X			
Blue (6)	X	X	X	X	X	X
Purple (7)	X		X			
Gray (8)						
White (10)	X	X	X	X	X	X
Pink (15)			X			
DG Orange (DG3)	X	X	X	X	X	X
DG Yellow (DG4)			X			
DG Green (DG5)						
Glow in the Dark (DG9)			X			
DG Pink (DG15)		X	X			

All size/color combinations denoted with an "X" in the table above are available upon request. Contact HellermannTyton for pricing, part numbers, minimum order quantities and lead times. Additional size/color combinations may be available upon request. Contact your local HellermannTyton representative for pricing and minimums.

## Spiralwrap continued



File # E147924

Product Selection									
Article No.	Part No.	Type	Ø D	Wall Thickness	Pitch	Min. Ø Bundle	Max. Ø Bundle	Color	Pkg. Qty.
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)		
<b>Natural Polyethylene (PE)</b>									
161-05013	1NFP9C	1NFP	.125" (3.18)	.032" (.81)	.187" (4.75)	.0625" (1.60)	.50" (12.7)	Natural	100
161-05043	2NFP9C	2NFP	.250" (6.35)	.045" (1.14)	.375" (9.53)	.1875" (4.75)	2" (50.8)	Natural	100
161-05027	2.5NFP9C	2.5NFP	.375" (9.53)	.052" (1.32)	.438" (11.13)	.3125" (7.92)	3" (76.2)	Natural	100
161-05055	3NFP9C	3NFP	.5" (12.7)	.062" (1.57)	.563" (14.3)	.375" (9.52)	4" (102)	Natural	100
161-05075	4NFP9C	4NFP	.750" (19.05)	.065" (1.65)	.750" (19.05)	.750" (19.10)	5" (127)	Natural	100
161-05080	5NFP9C	5NFP	1" (25.4)	.095" (2.41)	1" (25.4)	1" (25.4)	7" (178)	Natural	100
<b>Black Polyethylene (PE)</b>									
161-05004	1NFP0C	1NFP	.125" (3.18)	.032" (.81)	.187" (4.75)	.0625" (1.60)	.50" (12.7)	Black	100
161-05036	2NFP0C	2NFP	.250" (6.35)	.045" (1.14)	.375" (9.53)	.1875" (4.75)	2" (50.8)	Black	100
161-05024	2.5NFP0C	2.5NFP	.375" (9.53)	.052" (1.32)	.438" (11.13)	.3125" (7.92)	3" (76.2)	Black	100
161-05052	3NFP0C	3NFP	.5" (12.7)	.062" (1.57)	.5" (12.7)	.375" (9.52)	4" (102)	Black	100
161-05074	4NFP0C	4NFP	.750" (19.05)	.065" (1.65)	.750" (19.05)	.750" (19.10)	5" (127)	Black	100
161-05079	5NFP0C	5NFP	1" (25.4)	.095" (2.41)	1" (25.4)	1" (25.4)	7" (178)	Black	100
<b>Natural Polyethylene (PE), flame-retardant</b>									
161-05001	1FRP9C	1FRP	.125" (3.18)	.032" (.81)	.187" (4.75)	.0625" (1.60)	.50" (12.7)	Natural	100
161-05030	2FRP9C	2FRP	.250" (6.35)	.045" (1.14)	.375" (9.53)	.1875" (4.75)	2" (50.8)	Natural	100
161-05017	2.5FRP9C	2.5FRP	.375" (9.53)	.052" (1.32)	.438" (11.13)	.3125" (7.92)	3" (76.2)	Natural	100
161-05049	3FRP9C	3FRP	.5" (12.7)	.062" (1.57)	.563" (14.3)	.375" (9.52)	4" (102)	Natural	100
161-05058	4FRP9C	4FRP	.750" (19.05)	.065" (1.65)	.750" (19.05)	.750" (19.10)	5" (127)	Natural	100
161-05077	5FRP9C	5FRP	1" (25.4)	.095" (2.41)	1" (25.4)	1" (25.4)	7" (178)	Natural	100
<b>Black Polyethylene (PE), flame-retardant</b>									
161-05000	1FRP0C	1FRP	.125" (3.18)	.032" (.81)	.187" (4.75)	.0625" (1.60)	.50" (12.7)	Black	100
161-05029	2FRP0C	2FRP	.250" (6.35)	.045" (1.14)	.375" (9.53)	.1875" (4.75)	2" (50.8)	Black	100
161-05016	2.5FRP0C	2.5FRP	.375" (9.53)	.052" (1.32)	.438" (11.13)	.3125" (7.92)	3" (76.2)	Black	100
161-05048	3FRP0C	3FRP	.5" (12.7)	.062" (1.57)	.563" (14.3)	.375" (9.52)	4" (102)	Black	100
161-05057	4FRP0C	4FRP	.750" (19.05)	.065" (1.65)	.750" (19.05)	.750" (19.10)	5" (127)	Black	100
161-05084	5FRP0C	5FRP	1" (25.4)	.095" (2.41)	1" (25.4)	1" (25.4)	7" (178)	Black	100
<b>Natural Polyamide 6 (PA6)</b>									
161-05003	1N9C	1N	.125" (3.18)	.015" (.38)	.187" (4.75)	.0625" (1.60)	.50" (12.7)	Natural	100
161-05034	2N9C	2N	.250" (6.35)	.0250" (.64)	.375" (9.53)	.1875" (4.75)	2" (50.8)	Natural	100
161-05019	2.5N9C	2.5N	.375" (9.53)	.035" (.89)	.438" (11.13)	.3125" (7.92)	3" (76.2)	Natural	100
161-05051	3N9C	3N	.5" (12.7)	.035" (.89)	.500" (12.7)	.375" (9.52)	4" (102)	Natural	100
161-05072	4N9C	4N	.750" (19.05)	.032" (.81)	.750" (19.05)	.5" (12.7)	5" (127)	Natural	100
161-05085	5N9C	5N	1" (25.4)	.032" (.81)	1" (25.4)	1" (25.4)	7" (178)	Natural	100
<b>Black Polyamide 6 (PA6)</b>									
161-05002	1N0C	1N	.125" (3.18)	.015" (.38)	.187" (4.75)	.0625" (1.60)	.50" (12.7)	Black	100
161-05032	2N0C	2N	.250" (6.35)	.025" (.64)	.375" (9.53)	.1875" (4.75)	2" (50.8)	Black	100
161-05018	2.5N0C	2.5N	.375" (9.53)	.035" (.89)	.438" (11.13)	.3125" (7.92)	3" (76.2)	Black	100
161-05050	3N0C	3N	.5" (12.7)	.035" (.89)	.50" (12.7)	.375" (9.52)	4" (102)	Black	100
161-05071	4N0C	4N	.750" (19.05)	.032" (.81)	.750" (19.05)	.50" (12.7)	5" (127)	Black	100
161-05078	5N0C	5N	1" (25.4)	.032" (.81)	1" (25.4)	1" (25.4)	7" (178)	Black	100
<b>Natural Polytetrafluoroethylene -Teflon (PTFE)</b>									
161-05015	1P9C	1P	.125" (3.18)	.020" (.76)	.187" (4.75)	.0625" (1.60)	.50" (12.7)	Natural	100
161-05047	2P9C	2P	.250" (6.35)	.030" (.76)	.375" (9.53)	.1875" (4.75)	2" (50.8)	Natural	100
161-05028	2.5P9C	2.5P	.375" (9.53)	.030" (.76)	.438" (11.13)	.3125" (7.92)	2.5" (63.5)	Natural	100
161-05056	3P9C	3P	.5" (12.7)	.030" (.76)	.5" (12.7)	.375" (9.52)	3" (76.2)	Natural	100
161-05076	4P9C	4P	.750" (19.05)	.032" (.81)	.750" (19.05)	.5" (12.7)	4" (102)	Natural	100
161-05081	5P9C	5P	1" (25.4)	.040" (1.02)	1" (25.4)	.750" (19.10)	5" (127)	Natural	100

Teflon is a registered trademark of the DuPont Corporation. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

**Spiralwrap continued**

Material Data									
Material	Operating Temperature	Abrasion Resistance	Specific Gravity D792-66	Effect of Solvents	Effect of Acids	Effect of Alkalies	Water Absorption	Flammability	Mil. Spec & Approvals
<b>RoHS</b> Polyethylene (PE)	Polyethylene is ideal for general applications that are not affected by ordinary solvents. Available in colors. Ultraviolet resistant black polyethylene is for outdoor use. It has the same qualities as clear polyethylene, but also contains an ultraviolet absorber which permits it to be used in direct sunlight for long periods of time. Available by special order in gray.								
Natural Polyethylene (PE)	-76°F to +190°F (-60°C to +88°C)	22	0.92	None below 122°F (50°C)	None	None	0.014	Flammable	MIL I-631D MIL P-21922B Fed. Spec. LP390C A-A-59602 Typel
Black Polyethylene (PE)	-76°F to +190°F (-60°C to +88°C)	20	0.93	None below 122°F (50°C)	None	None	0.03	Flammable	MIL I-631D MIL P-21922B Fed. Spec. LP390C A-A-59602 Typel
<b>RoHS</b> Polyethylene (PE), flame-retardant	Suitable for applications requiring a self-extinguishing material. Lower cost than polyamide 6 or teflon materials. Note: Natural color is milky white.								
Natural Polyethylene (PE), flame-retardant	-4°F to +176°F (-20°C to + 80°C)	27	1.29	None below 122°F (50°C)	None	None	0.02	94-V2	
Black Polyethylene (PE), flame-retardant	-4°F to +176°F (-20°C to + 80°C)	27	1.29	None below 122°F (50°C)	None	None	0.02	94-V2	
<b>RoHS</b> Polyamide 6 (PA6)	Natural polyamide 6 is recommended for use in enclosed environments where the possibility of fire exists. Self-extinguishing. Does not produce any toxic or irritation, even when exposed to open flame or excessive temperatures. Polyamide 6 is six times as strong as polyethylene. Black polyamide 6 features the same properties as natural polyamide 6 with the added benefit of an ultraviolet absorber so that it can be used in direct sunlight for long periods of time.								
Natural Polyamide 6 (PA6)	-40°F to +250°F (-40°C to +121°C)	6-8	1.14	None	Satisfactory except for strong acids	None	1.5	Self Extinguishing	AS 1294 A-A 59602 Type II
Black Polyamide 6 (PA6)	-40°F to +250°F (-40°C to +121°C)	6-8	1.14	None	Satisfactory except for strong acids	None	1.5	Self Extinguishing	AS 1294 A-A 59602 Type II
<b>RoHS</b> Polytetrafluorethylene -Teflon (PTFE)	Polytetrafluoroethylene -Teflon (PTFE) offers the widest operating temperature range of any material. It's chemically inert and non-flammable. Natural color is milky white, available with special order in black and colors.								
Natural Polytetrafluoroethylene -Teflon (PTFE)	-450°F to +500°F (-268°C to +260°C)	7	2.1	None	None	None	0.05	Non-flammable	AMS 3653C AMS 3654 AMS 3655 ASTM D3295 MIL I-22129C AS 1294 ASTMD1710 A-A 59602 Type III

Teflon is a registered trademark of the DuPont Corporation.



## Convoluted Tubing

Convoluted tubing provides an efficient method of routing and protecting wire harness assemblies, while reducing the chance of installation damage. It also can serve to protect valuable wiring circuits. HellermannTyton's convoluted tubing offers excellent protection against automotive fluids, vibration wear, water, snow, ice, and the effects of heat, cold, and sunlight on cables and wires. Available in standard, bulk, and dispenser box packaging.

### Applications

- Wire Harnesses
- Auto, Truck, and Bus Industry Applications
- Trailer & R.V. Manufacturing
- Snowmobiles and Watercraft
- Agricultural and Construction Machinery
- Electronic Equipment Wire Management



Material Data		RoHS
Material	<b>Polyethylene (PE)</b>	
Operating Temperature	<b>-40 °F to +200 °F (-40 °C to +93 °C)</b>	
Flammability	<b>UL94 V2</b>	

Material Data		RoHS
Material	<b>Polyamide 6 (PA6)</b>	
Operating Temperature	<b>-40 °F to +300 °F (-40 °C to +149 °C)</b>	
Flammability	<b>UL94 V2</b>	

The following materials are available as a special order. Minimums and custom terms apply. Contact HellermannTyton for more information.

Material	Color	Operating Temperature
<b>Polypropylene</b>	Black w/ Blue Stripe	-40 °F (-40 °C) to 275 °F (135 °C)
<b>Flame Retardant Polyethylene</b>	Gray	-40 °F (-40 °C) to 200 °F (93 °C)

## Convoluted Tubing Dispenser Box

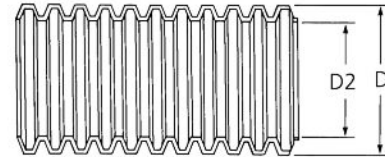
The convoluted tubing dispenser boxes offer an efficient packaging option. The sturdy and compact dispenser boxes allow for easy storage and moving around in the work area. The reel inside the box allows for tangle free dispensing, making it much easier to work with the product. Convoluted tubing in dispenser boxes is available in polyamide 6 material –1/4", 3/8", 1/2", 3/4" and 1" sizes.

Product Selection				
Article No.	Part No.	Type	Description	Pkg. Qty. ft.
169-60022	<b>169-60022</b>	CTN140	1/4" Convoluted Tubing, Slit - Polyamide 6, Black	100 ft
169-60018	<b>169-60018</b>	CTN380	3/8" Convoluted Tubing, Slit - Polyamide 6, Black	100 ft
169-60019	<b>169-60019</b>	CTN120	1/2" Convoluted Tubing, Slit - Polyamide 6, Black	100 ft
169-60020	<b>169-60020</b>	CTN340	3/4" Convoluted Tubing, Slit - Polyamide 6, Black	100 ft
169-60021	<b>169-60021</b>	CTN10	1" Convoluted Tubing, Slit - Polyamide 6, Black	50 ft

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



Convuluted Tubing *continued*



Product Selection			Nominal Ø	Ø D	Ø D2	Wall Thickness	Pkg. Qty.
Article No.	Part No.	Type	in. (mm)	in. (mm)	in. (mm)	in. (mm)	ft.
<b>Polyethylene (PE), Black</b>							
169-60509	<b>CTP140STD</b>	CTP140	.250" (6.35)	.40" (10.16)	.27" (6.858)	.004" (.1016)	3200 ft
169-60508	<b>CTP140</b>	CTP140	.250" (6.35)	.40" (10.16)	.27" (6.858)	.004" (.1016)	25000 ft
169-60515	<b>CTP380STD</b>	CTP380	.380" (9.652)	.526" (13.36)	.380" (9.652)	.005" (.127)	1900 ft
169-60514	<b>CTP380</b>	CTP380	.380" (9.652)	.526" (13.36)	.380" (9.652)	.005" (.127)	15000 ft
169-60507	<b>CTP120STD</b>	CTP120	.50" (12.7)	.70" (17.78)	.516" (13.11)	.005" (.127)	1100 ft
169-60506	<b>CTP120</b>	CTP120	.50" (12.7)	.70" (17.78)	.516" (13.11)	.005" (.127)	8500 ft
169-60517	<b>CTP580STD</b>	CTP580	.625" (15.87)	.837" (21.26)	.639" (16.23)	.005" (.127)	800 ft
169-60516	<b>CTP580</b>	CTP580	.625" (15.87)	.837" (21.26)	.639" (16.23)	.005" (.127)	5500 ft
169-60513	<b>CTP340STD</b>	CTP340	.750" (19.05)	.989" (25.12)	.759" (19.28)	.005" (.127)	550 ft
169-60512	<b>CTP340</b>	CTP340	.750" (19.05)	.989" (25.12)	.759" (19.28)	.005" (.127)	4200 ft
169-60501	<b>CTP10STD</b>	CTP10	1" (25.4)	1.32" (33.53)	1.06" (26.92)	.005" (.127)	300 ft
169-60500	<b>CTP10</b>	CTP10	1" (25.4)	1.32" (33.53)	1.06" (26.92)	.005" (.127)	2250 ft
169-60505	<b>CTP1140STD</b>	CTP1140	1.250" (31.75)	1.50" (38.1)	1.257" (31.93)	.006" (.1524)	250 ft
169-60504	<b>CTP1140</b>	CTP1140	1.250" (31.75)	1.50" (38.1)	1.257" (31.93)	.006" (.1524)	1800 ft
169-60503	<b>CTP1120STD</b>	CTP1120	1.5" (38.1)	1.947" (49.45)	1.65" (41.91)	.006" (.1524)	150 ft
169-60502	<b>CTP1120</b>	CTP1120	1.5" (38.1)	1.947" (49.45)	1.65" (41.91)	.006" (.1524)	1000 ft
169-60511	<b>CTP20STD</b>	CTP20	2" (50.8)	2.42" (61.47)	2.05" (52.07)	.011" (.28)	100 ft
<b>Polyamide 6 (PA6), Black with Gray Stripe</b>							
169-60009	<b>CTN140STD</b>	CTN140	.250" (6.35)	.40" (10.16)	.27" (6.858)	.004" (.1016)	3200 ft
169-60008	<b>CTN140</b>	CTN140	.250" (6.35)	.40" (10.16)	.27" (6.858)	.004" (.1016)	28000 ft
169-60015	<b>CTN380STD</b>	CTN380	.380" (9.652)	.526" (13.36)	.380" (9.652)	.005" (.127)	1900 ft
169-60014	<b>CTN380</b>	CTN380	.380" (9.652)	.526" (13.36)	.380" (9.652)	.005" (.127)	15000 ft
169-60007	<b>CTN120STD</b>	CTN120	.50" (12.7)	.70" (17.78)	.516" (13.11)	.005" (.127)	1200 ft
169-60006	<b>CTN120</b>	CTN120	.50" (12.7)	.70" (17.78)	.516" (13.11)	.005" (.127)	8500 ft
169-60017	<b>CTN580STD</b>	CTN580	.625" (15.87)	.837" (21.26)	.639" (16.23)	.005" (.127)	800 ft
169-60016	<b>CTN580</b>	CTN580	.625" (15.87)	.837" (21.26)	.639" (16.23)	.005" (.127)	5500 ft
169-60013	<b>CTN340STD</b>	CTN340	.750" (19.05)	.989" (25.12)	.759" (19.28)	.005" (.127)	550 ft
169-60012	<b>CTN340</b>	CTN340	.750" (19.05)	.989" (25.12)	.759" (19.28)	.005" (.127)	4200 ft
169-60001	<b>CTN10STD</b>	CTN10	1" (25.4)	1.32" (33.53)	1.06" (26.92)	.005" (.127)	300 ft
169-60000	<b>CTN10</b>	CTN10	1" (25.4)	1.32" (33.53)	1.06" (26.92)	.005" (.127)	2250 ft
169-60005	<b>CTN1140STD</b>	CTN1140	1.250" (31.75)	1.50" (38.1)	1.257" (31.93)	.006" (.1524)	250 ft
169-60004	<b>CTN1140</b>	CTN1140	1.250" (31.75)	1.50" (38.1)	1.257" (31.93)	.006" (.1524)	1800 ft
169-60003	<b>CTN1120STD</b>	CTN1120	1.5" (38.1)	1.947" (49.45)	1.65" (41.91)	.006" (.1524)	150 ft
169-60002	<b>CTN1120</b>	CTN1120	1.5" (38.1)	1.947" (49.45)	1.65" (41.91)	.006" (.1524)	1000 ft
169-60011	<b>CTN20STD</b>	CTN20	2" (50.8)	2.42" (61.47)	2.05" (52.07)	.011" (.28)	100 ft

Standard tubing is slit. Unslit is available upon request. Please contact HellermannTyton for pre-cut length requirements. Colors are available dependent upon volume requirements. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Convoluted Tubing Mounts

Designed especially for mounting convoluted tubing, these mounts are available in stud mount and fir tree mount versions and accommodate a range of tube diameters.

### Material Data

Material	<b>Polyamide 6.6 high impact modified, Heat Stabilized, UV Resistant (PA66HIRHS)</b>
Operating Temperature	<b>-40 °F to +230 °F (-40 °C to +110 °C) continuous</b>
Flammability	<b>UL94 HB</b>



## Stud Mount

Product Selection										
Article No.	Part No.	Type	Tube Ø		Recommended Weld Stud	Minimum Weld Stud Height		Color	Pkg. Qty.	Drawing
			in.	(mm)		in.	(mm)			
151-00700	<b>151-00700</b>	CTC4.5SBS6	.175"	(4.5)	M6	.39"	(10)	Black	500	
151-00701	<b>151-00701</b>	CTC7.5SBS6	.29"	(7.5)	M6	.39"	(10)	Black	500	
151-00702	<b>151-00702</b>	CTC10SBS6	.39"	(10)	M6	.39"	(10)	Black	500	
151-00703	<b>151-00703</b>	CTC13SBS6	.50"	(13)	M6	.39"	(10)	Black	500	
151-00010	<b>151-00010</b>	CTC17SBS6	.66"	(17)	M6	.39"	(10)	Black	500	

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Fir Tree Mount

Product Selection											
Article No.	Part No.	Type	Tube Ø		Panel Thickness		Mounting Hole Ø		Color	Pkg. Qty.	Drawing
			in.	(mm)	in.	(mm)	in.	(mm)			
151-14314	<b>151-14314</b>	CTC4.5FT6LG	.17"	(4.5)	.029" - .234"	(.75 - 6)	.25" - .27"	(6.5 - 7)	Black	500	
151-14313	<b>151-14313</b>	CTC7.5FT6LG	.29"	(7.5)	.029" - .234"	(.75 - 6)	.25" - .27"	(6.5 - 7)	Black	500	
151-00018	<b>151-00018</b>	CTC10FT6LG	.39"	(10)	.029" - .234"	(.75 - 6)	.25" - .27"	(6.5 - 7)	Black	500	
151-00019	<b>151-00019</b>	CTC13FT6LG	.507"	(13)	.029" - .234"	(.75 - 6)	.25" - .27"	(6.5 - 7)	Black	500	

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Braided Sleeving

HellermannTyton's line of expandable braided sleeving provides protection for hoses, cable assemblies, and wire bundles against abrasion and damage caused by excessive wear and motion. Lightweight and flexible, the construction of braided sleeving allows it to expand beyond its nominal size to fit several bundle sizes and shapes. The relatively easy expansion and quick slip-over accommodates a variety of market applications. Securing the ends of braided sleeving is fast and easy with cable ties, electrical tape or heat shrink materials.

The braided sleeving lineup from HellermannTyton covers a range of materials, sizes and styles-including standard Polyester (PET), PA66 Nylon, Flame Retardant, Split Wrap and High Temperature products. The sleeving is also resistant to harsh environments such as chemicals, salts, solvents, de-icing fluids and petroleum products as well as being resilient against UV light. The unique physical weave of braided sleeving makes it extremely flexible yet it will not trap moisture or humidity. Most of the items can be cut with a hot knife, which shears the edges and reduces the amount of fraying that occurs during the lifetime of the product. For applications that do not allow access to a hot knife, a fray resistant version is available that can be cut with any ordinary scissors with minimal unravel.

### Market Applications

Automotive, Transportation, Industrial Equipment, Electronics, Automation/Robotics, Control Panels, Marine, Machine Tools, General Manufacturing

### Product Applications

Hose Assemblies, Cable Bundles, Wire Harnesses, Electrical Cables.

#### SELECTION GUIDE

Materials Comparison	General Purpose			Flame Retardant				
	General Purpose Expandable Braided Sleeving	General Purpose Expandable Braided Sleeving Helagaine Dispenser Packs	Fray Resistant Expandable Braided Sleeving	Flame Retardant Expandable Braided Sleeving	Flame Retardant + Fray Resistant Expandable Braided Sleeving	Hook & Loop Flame Retardant Expandable Braided Sleeving	Split Wrap Flame Retardant Braided Sleeving	Electromagnetic Flame Retardant Helagaine
Color	Black or Orange	Black	Black	Black or Gray	Black	Black	Black	Tin Colored & Black
Temperature Range	-94°F to 257°F	-58°F to 230°F	-94°F to 257°F	-94°F to 257°F	-94°F to 257°F	-94°F to 257°F	-94°F to 257°F	-40°F to 347°F
	-70°C to 125°C	-50°C to 150°C	-70°C to 125°C	-70°C to 125°C	-70°C to 125°C	-70°C to 125°C	-70°C to 125°C	-40°C to 175°C
Melt Point	482°F / 250°C	482°F / 250°C	482°F / 250°C	482°F / 250°C	482°F / 250°C	482°F / 250°C	446°F / 230°C	392°F / 200°C
Flammability Rating	UL 94-V0		UL 94-V0	UL VW-1	UL VW-1	UL VW-1	UL VW-1	UL94-V0
ROHS	•	•	•	•	•	•	•	•
UL / CSA	•		•	•	•	•	•	
Other Certifications	FMVSS 302, FAR-25			FMVSS 302, Mil-202 FAR-25	Mil-202	Mil-202	FAR-25	FMVSS 302
Recommended Cutting	Hot Knife	Hot Knife	Scissors	Hot Knife	Scissors	Hot Knife	Hot Knife	Shears
Abrasion Protection	M	M	M	M	M	M	H	H
Outgassing	M	M	M	M	M	M	M	M
Cut Resistance	M	M	H	M	H	M	H	H
Chemical Resistance	M	M	M	M	M	M	H	H
UV Resistance	•	•	•	•	•	•	•	•
Halogen Free	•	•	•	•	•	•	•	
Expandable	•	•	•	•	•	•		•

VH = Very High H = High M=Medium L=Low

## Braided Sleeving *continued*

### Key Benefits

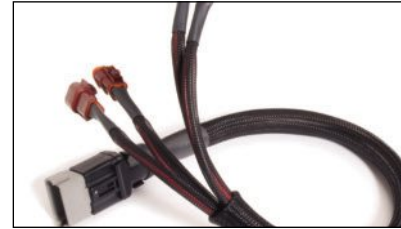
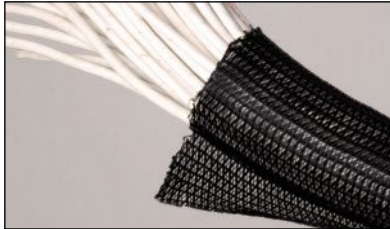
**Flexible Installation** Goes over cable bundles quickly and easily. Adjusts to fluctuations in bundle size or shape. Enables routing around obstructions, corners and edges.

**Less Bulk** Provides abrasion and corrosion protection without adding volume in tight spaces.

**Lightweight** Adds protection without increasing weight unlike convoluted tubing and spiral wrap materials.

**Aesthetics** Delivers a clean, crisp appearance.

**Moisture Dissipation** Results in no trapping of water, moisture or chemicals.



Specialty						Extreme Temperature		
Electromagnetic Helagain	Polyamide 6.6 Expandable Braided Sleeving	Polyamide 6.6 Helagain Expandable Braided Sleeving	Split Wrap Braided Sleeving	Hook & Loop Expandable Braided Sleeving	Plenum Rated Halar® Expandable Braided Sleeving	Extreme High Temperature Resin Saturated Fiberglass Expandable Braided Sleeving	High Temperature Nomex® Expandable Braided Sleeving	High Temperature Aluminum Laminated Fiberglass Sleeving
Tin Colored & Black	Black	Gray	Black or Orange	Black	Black or White	Black	Green	Silver
-40°F to 347°F	-49°F to 302°F	-76°F to 302°F	-94°F to 257°F	-94°F to 257°F	-103°F to 302°F	-94°F to 1,202°F	-320°F to 662°F	-76°F to 491°F
-40°C to 175°C	-45°C to 150°C	-60°C to 150°C	-70°C to 125°C	-70°C to 125°C	-75°C to 150°C	-70°C to 650°C	-196°C to 350°C	-60°C to 255°C
392°F / 200°C	491°F / 255°C	491°F / 255°C	482°F / 250°C	482°F / 250°C	482°F / 250°C	2,048°F / 1,120°C	NA	2,048°F / 1,120°C
UL94-V2	Non Flammable	UL 94-V2	UL 94-V0	UL 94-V0	UL VW-1	UL VW-1	Non Flammable	Non Flammable
•	•	•	•	•	•	•	•	•
		•	•	•	•	•		
FMVSS 302		FMVSS 302		FAR-25	UL 2024, NFPA 262, FAR-25, FMVSS 302			
Shears	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Scissors	Scissors	Scissors
H	H	H	M	M	M	VH	L	NA
M	H	H	M	M	L	L	NA	NA
H	H	H	M	M	M	VH	L	H
H	H	H	M	M	M	H	M	H
•	•	•	•	•	•	•	•	•
•	•	•	•			•	•	•
•	•	•		•	•	•	•	

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### General Purpose Expandable Braided Sleeving

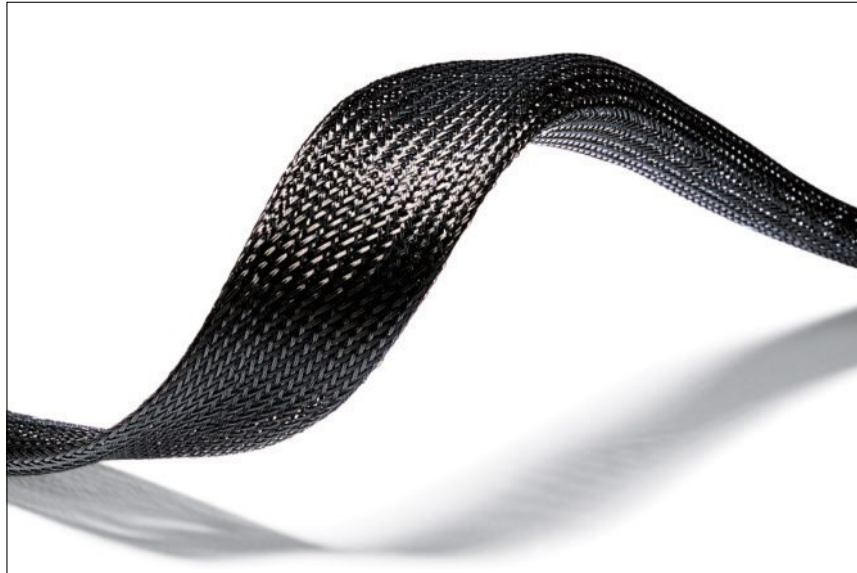
Designed to adjust and expand to irregular shapes, this general purpose sleeving is lightweight and offers a high tensile strength while still maintaining flexibility. This sleeving is an excellent choice for protecting wire and cable bundles from abrasion, chafing, and heat degradation.

#### Application

Commonly used in electrical and industrial wire harnessing applications where economy and durability are required for the protection of wires, cables, tubing, bundles and pneumatic hoses.

#### Benefits

- Adjusts to twisting and flexing without creating wrinkles, bends or bulges.
- Provides tough, durable protection through a wide range of temperatures.
- Expands up to 150% of flat diameter for easy installation.
- Offers excellent abrasion and cut-through resistance as well as inertness to most chemicals and fungus.



Material Data	
Material	PET (Polyester)
Flammability	UL 94-V0
Operating Temperature	-94°F to 257°F -70°C to 125°C
Melt Point	482°F / 250°C
Abrasion Protection	Medium
Recommended Cutting	Hot Knife



#### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length*		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-03177	1/8	3.2	BSP180	.094	.25	2.4	6.4	Black	225	68.6	.41	.19
170-03000	1/4	6.4	BSP140	.125	.437	3.2	11.1	Black	200	61.0	.52	.24
170-03001	1/2	12.7	BSP120	.25	.75	6.4	19.1	Black	100	30.5	.77	.35
170-03002	3/4	19.1	BSP340	.50	1.25	12.7	31.8	Black	75	22.9	.90	.41
170-03003	1	25.4	BSP100	.625	1.625	15.9	41.3	Black	65	19.8	.87	.40
170-03004	1-1/4	31.8	BSP1140	.75	1.75	19.1	44.5	Black	50	15.2	.80	.363
170-03005	1-1/2	38.1	BSP1120	1.00	2.125	25.4	54.0	Black	40	12.2	.79	.358

#### Bulk Sized Reels

170-03174	1/8	3.2	BSP180B	.094	.25	2.4	6.4	Black	1000	304.8	1.8	.82
170-03041	1/4	6.4	BSP140B	.125	.437	3.2	11.1	Black	1000	304.8	2.60	1.18
170-03042	1/2	12.7	BSP120B	.25	.75	6.4	19.1	Black	500	152.4	3.85	1.75
170-03043	3/4	19.1	BSP340B	.50	1.25	12.7	31.8	Black	250	76.2	3.00	1.36
170-03044	1	25.4	BSP100B	.625	1.625	15.9	41.3	Black	250	76.2	3.35	1.52
170-03045	1-1/4	31.8	BSP1140B	.75	1.75	19.1	44.5	Black	250	76.2	4.00	1.81

Use Part No. for ordering and Type for specification. \*Pre-cut lengths available upon request.





### General Purpose Expandable Braided Sleeving Helagain Dispenser Packs

This convenient package holds mini spools of expandable braided sleeving. Designed to save space and provide easy access when dispensing, this unit allows for the efficient handling and management of sleeving.

#### Application

The perfect solution for use in field-service applications where a large spool of braided sleeving is not feasible or when only a small amount of sleeving is required for a quick-fix project.

#### Benefits

- Expands (3:1 ratio) to allow for a wide range of bundle sizes.
- Dispenser box protects sleeving from dirt and keeps it from unraveling.



Material Data	
Material	PET (Polyester)
Operating Temperature	-58°F to 230°F -50°C to 150°C
Melt Point	482°F / 250°C
Abrasion Protection	Medium
Recommended Cutting	Hot Knife



#### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-80150	1/4	6.4	HLB15	.20	.83	5.1	21.1	Black	32.8	10.0	.45	.20
170-80250	1/2	12.7	HLB25	.40	1.18	10.2	30.0	Black	32.8	10.0	.56	.25
170-80350	1	25.4	HLB35	.71	2.13	18.0	54.1	Black	32.8	10.0	.67	.30

Use Part No. for ordering and Type for specification.

### General Purpose Expandable Braided Sleeving - Orange

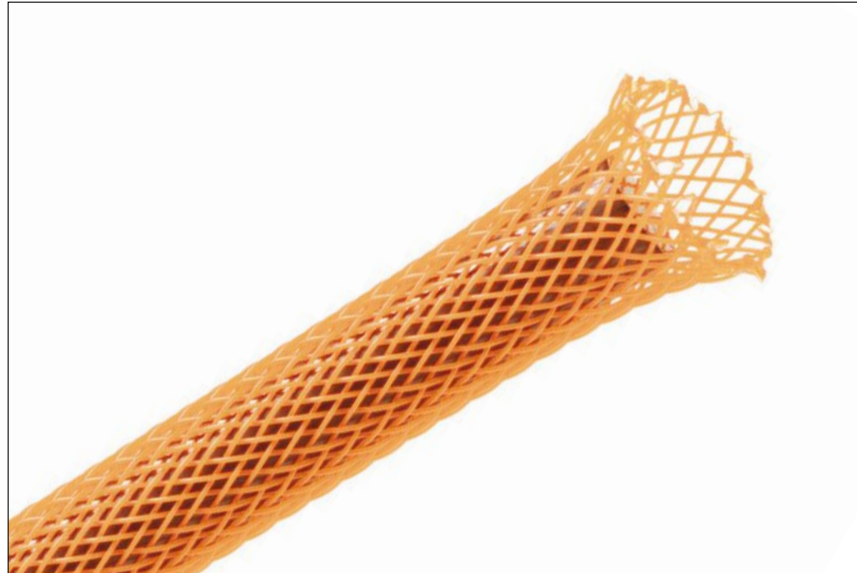
Orange PET braided sleeving is an extremely flexible, general purpose option for bundling and protecting wires and cables in abrasive type applications. Its color makes it ideal for systematic color coding of complex wiring installations.

#### Application

Commonly used to shield cable harnesses in battery-powered vehicles, such as hybrid cars, golf carts, and light trucks.

#### Benefits

- Provides easy visual and safety identification of critical wiring components.
- Offers high tensile strength while maintaining extreme flexibility.
- Expands up to 150% of flat diameter for easy installation.
- Does not trap heat and humidity.
- Installs quickly and accommodates expansions and varying cable assembly shapes, reducing installation costs.



Material Data	
Material	PET (Polyester)
Flammability	UL 94-V0
Operating Temperature	-94°F to 257°F -70°C to 125°C
Melt Point	482°F / 250°C
Abrasion Protection	Medium
Recommended Cutting	Hot Knife



#### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length*		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-03076	1/4	6.4	BSP143B	.125	.437	3.2	11.1	Orange	1000	304.8	2.6	1.18
170-03077	1/2	12.7	BSP123B	.25	.75	6.4	19.1	Orange	500	152.4	3.85	1.75
170-03078	3/4	19.1	BSP343B	.50	1.25	12.7	31.8	Orange	250	76.2	3.0	1.36
170-03079	1	25.4	BSP103B	.625	1.625	15.9	41.3	Orange	250	76.2	3.35	1.52
170-03080	1-1/4	31.8	BSP1143B	.75	1.75	19.1	44.5	Orange	250	76.2	4.0	1.81
170-03081	1-1/2	38.1	BSP1123B	1.00	2.125	25.4	54.0	Orange	200	61.0	6.6	3.0

Use Part No. for ordering and Type for specification. \*Pre-cut lengths available upon request.



## Fray Resistant Expandable Braided Sleeving

A versatile and economical general purpose sleeving that resists fraying when cut with ordinary scissors.

### Application

For use in automotive, industrial and computer applications where the wires, cables and hoses being covered endure frequent handling.

### Benefits

- Enables field installations without a hot knife thus reducing time and assembly costs.
- Expands up to 150% of flat diameter for easy installation.
- Offers excellent abrasion and cut-through resistance as well as inertness to most chemicals and fungus.



Material Data		
Material	PET (Polyester)	
Flammability	UL 94-V0	
Operating Temperature	-94°F to 257°F -70°C to 125°C	
Melt Point	482°F / 250°C	
Abrasion Protection	Medium	
Recommended Cutting	Scissors	



### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-03123	1/8	3.2	BSPSC180	.125	.25	3.2	6.4	Black	100	30.5	.40	.18
170-03035	1/4	6.4	BSPSC140	.156	.437	4.0	11.1	Black	100	30.5	.46	.21
170-03012	1/2	12.7	BSPSC120	.25	.75	6.4	19.1	Black	100	30.5	.82	.37
170-03013	3/4	19.1	BSPSC340	.625	1.0	15.9	25.4	Black	75	22.9	.83	.38
170-03014	1	25.4	BSPSC100	.75	1.19	19.1	30.2	Black	50	15.2	.62	.28
170-03015	1-1/4	31.8	BSPSC1140	1.0	1.50	25.4	38.1	Black	50	15.2	.78	.35
170-03016	1-1/2	38.1	BSPSC1120	1.25	2.0	31.8	50.8	Black	50	15.2	.93	.42

Use Part No. for ordering and Type for specification.



### Flame Retardant Expandable Braided Sleeving

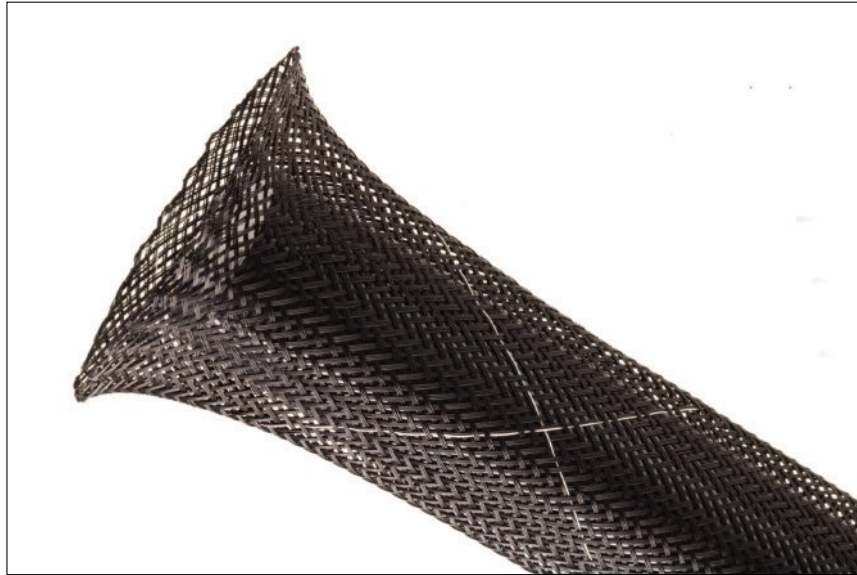
A flame retardant woven (threaded) polyester sleeving that is resistant to cuts and abrasion, and contains a combustion inhibitor allowing it to achieve a UL and CSA flame-resistance rating of VW-1.

#### Application

This fire extinguishing braided sleeving is ideal for electronic and high tech applications because of its light weight and durable qualities.

#### Benefits

- Resists gasoline, engine fluids, chemicals and cleaning solvents.
- Expands up to 150% of flat diameter for easy installation.
- Enables quick and easy installation over large connectors.



Material Data	
Material	Treated PET (Polyester)
Flammability	UL VW-1
Operating Temperature	-94°F to 257°F -70°C to 125°C
Melt Point	482°F / 250°C
Abrasion Protection	Medium
Recommended Cutting	Hot Knife



#### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-03006	1/4	6.4	BSPFR140	.125	.437	3.2	11.1	Black	200	61.0	.48	.22
170-03007	1/2	12.7	BSPFR120	.25	.75	6.4	19.1	Black	100	30.5	.72	.33
170-03008	3/4	19.1	BSPFR340	.50	1.25	12.7	31.8	Black	75	22.9	.65	.30
170-03010	1-1/4	31.8	BSPFR1140	.75	1.75	19.1	44.5	Black	50	15.2	.80	.363
170-03011	1-1/2	38.1	BSPFR1120	1.0	2.125	25.4	53.9	Black	40	12.2	.79	.358
170-03071	1/8	3.2	BSPFR188	.094	.25	2.4	6.4	Gray	225	68.6	.40	.18
170-03072	1/4	6.4	BSPFR148	.125	.437	3.2	11.1	Gray	200	61.0	.48	.22
170-03073	1/2	12.7	BSPFR128	.25	.75	6.4	19.1	Gray	100	30.5	.72	.33
170-03074	3/4	19.1	BSPFR348	.50	1.25	12.7	31.8	Gray	75	22.9	.65	.30
170-03066	1-1/2	38.1	BSPFR1128	1.0	2.125	25.4	53.9	Gray	40	12.2	.79	.358
<b>Bulk Sized Reels</b>												
170-03089	1/8	3.2	BSPFR180B	.094	.25	2.4	6.4	Black	1000	304.8	1.6	.73
170-03090	1/4	6.4	BSPFR140B	.125	.437	3.2	11.1	Black	1000	304.8	2.4	1.1
170-03091	1/2	12.7	BSPFR120B	.25	.75	6.4	19.1	Black	500	152.4	3.6	1.6
170-03092	3/4	19.1	BSPFR340B	.50	1.25	12.7	31.8	Black	250	76.2	2.2	1.0
170-03093	1	25.4	BSPFR100B	.625	1.625	15.9	41.3	Black	250	76.2	3.4	1.5
170-03094	1-1/4	31.8	BSPFR1140B	.75	1.75	19.1	44.5	Black	250	76.2	4.0	1.8
170-03095	1-1/2	38.1	BSPFR1120B	1.0	2.125	25.4	54.0	Black	200	61.0	3.9	1.77

Use Part No. for ordering and Type for specification.



## Flame Retardant + Fray Resistant Expandable Braided Sleeving

This protective sleeving is self-extinguishing and can be cut with sharp scissors instead of a hot knife for fray-resistant ends.

### Application

Readily used in the automotive, audiovisual, industrial, wire, cable and computer industries where flame retardancy is required to reduce the likelihood of ignition and/or reduce the rate of flame spread. It is suited for situations where access to a hot knife is either impractical or impossible.

### Benefits

- Provides fuller coverage and a medium-to-high abrasion resistance.
- Expands for ease of installation in either the shop or the field.
- Offers increased braid density without loss of flexibility.
- Contains white tracer thread for simple identification of flame retardancy.
- Extinguishes quickly and reduces flame spread to surrounding components.



### Material Data

Material	Treated PET (Polyester)
Flammability	UL VW-1
Operating Temperature	-94°F to 257°F -70°C to 125°C
Melt Point	482°F / 250°C
Abrasion Protection	Medium
Recommended Cutting	Scissors



### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-03036	1/4	6.4	BSSCFR140	.156	.437	4.0	11.1	Black	100	30.5	.40	.18
170-03017	1/2	12.7	BSSCFR120	.25	.75	6.4	19.1	Black	100	30.5	.82	.37
170-03018	3/4	19.1	BSSCFR340	.625	1.00	15.9	25.4	Black	75	22.9	.83	.38
170-03019	1	25.4	BSSCFR100	.75	1.188	19.1	30.2	Black	50	15.2	.62	.28
170-03020	1-1/4	31.8	BSSCFR1140	1.0	1.50	25.4	38.1	Black	50	15.2	.78	.35
170-03021	1-1/2	38.1	BSSCFR1120	1.25	2.0	31.8	50.8	Black	50	15.2	.93	.42
<b>Bulk Sized Reels</b>												
170-03116	1/8	3.3	BSSCFR180B	.125	.25	3.2	6.4	Black	1000	304.8	4.0	1.8
170-03117	1/4	6.4	BSSCFR140B	.156	.437	4.0	11.1	Black	1000	304.8	4.6	2.1
170-03118	1/2	12.7	BSSCFR120B	.25	.75	6.4	19.1	Black	500	152.4	4.1	1.9
170-03119	3/4	19.1	BSSCFR340B	.625	1.0	15.9	25.4	Black	250	76.2	2.78	1.3
170-03120	1	25.4	BSSCFR100B	.75	1.9	19.1	48.3	Black	250	76.2	3.1	1.4
170-03121	1-1/4	31.8	BSSCFR1140B	1.0	1.50	25.4	38.1	Black	250	76.2	3.9	1.8
170-03122	1-1/2	38.1	BSSCFR1120B	1.25	2.0	31.8	50.8	Black	250	76.2	4.63	2.1

Use Part No. for ordering and Type for specification.



### Hook & Loop Flame Retardant Expandable Braided Sleeving

Hook and loop edging keeps this flame retardant sleeving securely wrapped around cables, but allows for easy access when maintenance is necessary.

#### Application

Ideal for high-technology applications, especially operating environments where harsh fluids are present.

#### Benefits

- Conforms to irregular shapes and contours.
- Meets military specifications (Mil-202 approved).
- Cuts easily with a bench-mount hot knife.
- Resists chemicals and cleaning solvents.



#### Material Data

Material	Treated PET (Polyester)
Flammability	UL VW-1
Operating Temperature	-94°F to 257°F -70°C to 125°C
Melt Point	482°F / 250°C
Abrasion Protection	Medium
Recommended Cutting	Hot Knife



#### Product Selection

Part No.	Nominal Size		Type	Wall Thickness		Color	Reel Length		Weight	
	in.	mm.		in.	in.		ft.	m.	lbs.	kg.
170-03153	1/2	12.7	BSHKLPFR120B	.25	6.4	Black	100	30.5	1.3	.60
170-03154	3/4	19.1	BSHKLPFR340B	.63	16	Black	100	30.5	1.8	.82
170-03155	1-1/4	31.8	BSHKLPFR1140B	.63	16	Black	100	30.5	2.3	1.04
170-03156	2	50.8	BSHKLPFR200B	.63	16	Black	100	30.5	3.2	1.45
170-03157	2-1/2	63.5	BSHKLPFR212B	.63	16	Black	100	30.5	3.75	1.70

Use Part No. for ordering and Type for specification.





### Split Wrap Flame Retardant Braided Sleeving

Used when flame retardancy is a primary requirement, this protection option incorporates a lateral split which allows the tube to open up to accommodate a variety of bundling requirements and the semi-rigid braid configuration simply closes around the entire installation without the need for any additional fasteners.

#### Application

Use this self-extinguishing product that complies with UL VW-1 standards where cables exit a wall and need to be managed for an uncluttered, clean appearance.

#### Benefits

- Installs easily, saving assembly time.
- Allows for future accessibility without disassembly.
- Needs no fasteners (i.e., tape, hook and loop, etc.).
- Provides a greater flexibility than spiralwrap or convoluted tubing.
- Retains shape and rigidity throughout operating temperature range.



#### Material Data

Material	Treated PET (Polyester)
Flammability	UL VW-1
Operating Temperature	-94°F to 257°F -70°C to 125°C
Melt Point	446°F / 230°C
Abrasion Protection	High
Recommended Cutting	Hot Knife



#### Product Selection

Part No.	Nominal Size*		Type	Wall Thickness		Color	Reel Length		Weight	
	in.	mm.		in.	mm.		ft.	m.	lbs.	kg.
170-03140	1/8	3.2	BSSWFR180B	.024	.61	Black	400	121.9	.80	.36
170-03141	1/4	6.4	BSSWFR140B	.025	.64	Black	200	61.0	1.2	.54
170-03142	1/2	12.7	BSSWFR120B	.025	.64	Black	150	45.7	2.1	.95
170-03143	3/4	19.1	BSSWFR340B	.025	.64	Black	100	30.5	1.6	.73
170-03144	1	25.4	BSSWFR100B	.038	.97	Black	100	30.5	20	.91
170-03145	1-1/4	31.8	BSSWFR1140B	.038	.97	Black	75	22.9	1.8	.82
170-03146	1-1/2	38.1	BSSWFR1120B	.038	.97	Black	75	22.9	2.1	.95
170-03147	2	50.8	BSSWFR200B	.038	.97	Black	50	15.2	1.8	.82

Use Part No. for ordering and Type for specification. \*Nominal size measures internal diameter of sleeving.



### Electromagnetic Flame Retardant Helagaine

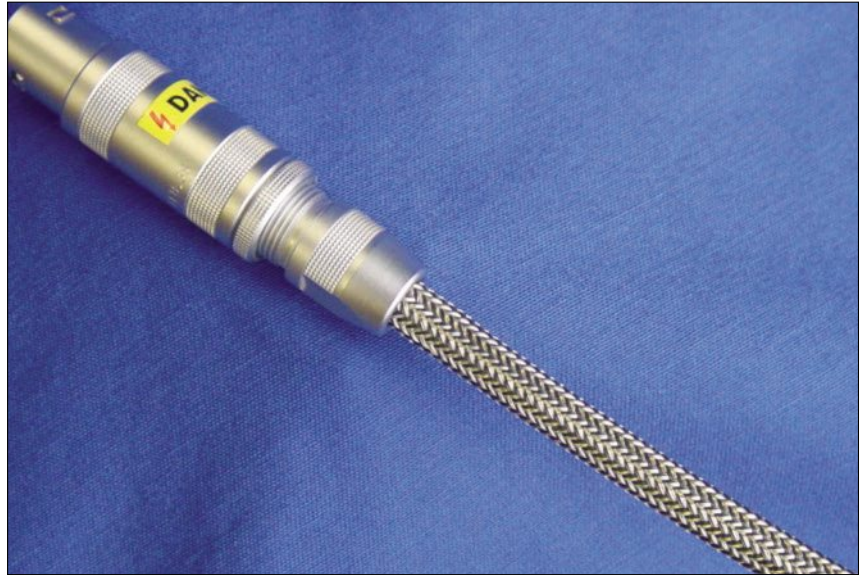
Helagaine VO (HEGEMIPVO) is tubular braided sleeving made from Polyester PBT monofilaments. The raw material is treated with non-burning agents so it has flame retardant and self-extinguishing properties. Rated VO by Underwriters Laboratories.

#### Application

Excellent for use where flame can cause damage therefore the protection of highly sensitive wiring is critical, such as in laboratories, computer rooms, satellites, mass transit and airplanes.

#### Benefits

- Shields or dissipates wire and cables from electromagnetic interference.
- Resists most chemicals.
- Expands (ratio 2:1) to allow for easy placement over bundles.



Material Data	
Material	PBT / Tin-Plated Copper (TNCU)
Flammability	UL 94-V0
Operating Temperature	-40°F to 347°F -40°C to 175°C
Melt Point	392°F / 200°C
Abrasion Protection	High
Recommended Cutting	Shears
EMI Requirements	10 KHz to 1 GHz according to CISPR25



#### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
173-60400	1/8	3.2	HEGEMIPV004	.16	.26	4.1	6.6	Tin+Black	328	100	4.74	2.2
173-60600	1/4	6.4	HEGEMIPV006	.20	.40	5.1	10.2	Tin+Black	328	100	6.28	2.8
173-60800	5/16	7.9	HEGEMIPV008	.32	.45	8.1	11.4	Tin+Black	328	100	5.84	2.6
173-61000	3/8	9.5	HEGEMIPV010	.32	.52	8.1	13.2	Tin+Black	164	50	9.6	4.4
173-61200	7/16	11.1	HEGEMIPV012	.40	.59	10.20	15.0	Tin+Black	164	50	10.6	4.8
173-61400	1/2	12.7	HEGEMIPV014	.47	.71	11.9	18.0	Tin+Black	328	100	12.8	5.8
173-61600	9/16	14.3	HEGEMIPV016	.55	.79	14.0	20.1	Tin+Black	328	100	15.9	7.2
173-61800	5/8	15.9	HEGEMIPV018	.63	.87	16.0	22.1	Tin+Black	164	50	17.3	7.8
173-62000	3/4	19.1	HEGEMIPV020	.71	.98	18.0	25.0	Tin+Black	164	50	22.1	10.0

Use Part No. for ordering and Type for specification.

## Electromagnetic Helagaine

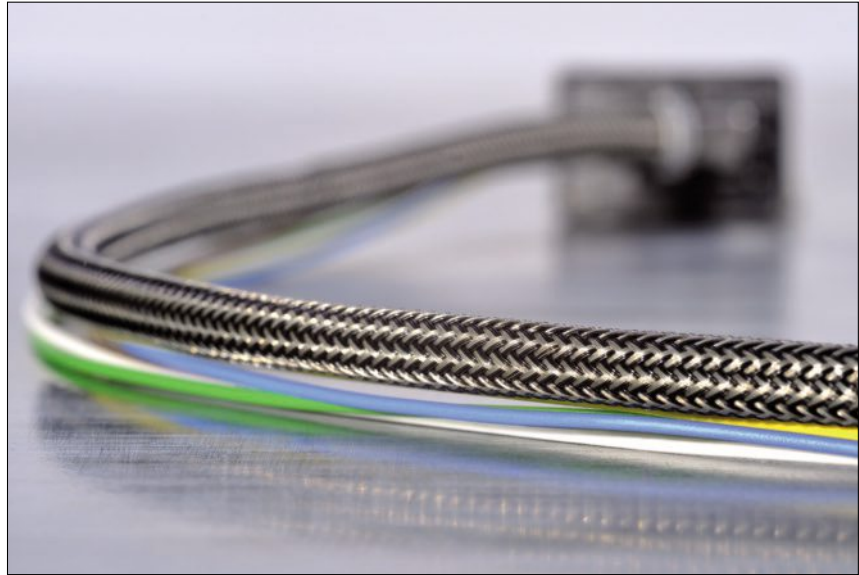
Helagaine (HEGEMIP) is a sleeving created from tin-plated copper and polyester threads that offers not only secure cable bundling but electromagnetic protection as well. The formulated mix of materials offers inside and outside abrasion resistance.

### Application

Particularly suitable for applications with movement and little space; ideal for short-run cables found in electrical appliances and radio equipment.

### Benefits

- Features a supporting inner tube that makes insertion of cable easier and protects the sleeve from deformation during transport.
- Attenuates electrical field interference.
- Provides electromagnetic and electrostatic shielding.
- Delivers added shielding in retrofit applications.
- Retains original form even when bent and twisted, unlike purely copper braids.



### Material Data

Material	PET (Polyester) / Tin-Plated Copper (TNCU)
Flammability	UL 94-V2
Operating Temperature	-40°F to 347°F -40°C to 175°C
Melt Point	392°F / 200°C
Abrasion Protection	High
Recommended Cutting	Shears
EMI Requirements	10 KHz to 1 GHz according to CISPR25



### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
173-00400	1/8	3.2	HEGEMIP04	.16	.26	4.1	6.6	Tin+Black	328	100	4.74	2.2
173-00600	1/4	6.4	HEGEMIP06	.20	.40	5.1	10.2	Tin+Black	328	100	6.28	2.8
173-00800	5/16	7.9	HEGEMIP08	.32	.45	8.1	11.4	Tin+Black	328	100	5.84	2.6
173-01000	3/8	9.5	HEGEMIP10	.32	.52	8.1	13.2	Tin+Black	164	50	9.6	4.4
173-01200	7/16	11.1	HEGEMIP12	.40	.59	10.2	15.0	Tin+Black	164	50	10.6	4.8
173-01400	1/2	12.7	HEGEMIP14	.47	.71	11.9	18.0	Tin+Black	328	100	12.8	5.8
173-01600	9/16	14.3	HEGEMIP16	.55	.79	14.0	20.1	Tin+Black	328	100	15.9	7.2
173-01800	5/8	15.9	HEGEMIP18	.63	.87	16.0	22.1	Tin+Black	164	50	17.3	7.8
173-02000	3/4	19.1	HEGEMIP20	.71	.98	18.0	25.0	Tin+Black	164	50	22.1	10.0

Use Part No. for ordering and Type for specification.

### Polyamide 6.6 Expandable Braided Sleeving - Black

A pliable yet durable nylon sleeve that delivers excellent protection against cuts, abrasions and excessive wear caused by repetitive motion.

#### Application

Used on hoses, pipes, wiring harnesses and cables installed in cars, trucks, military vehicles, trains and industrial equipment. Protects delicate wiring in engine compartments and near exhaust systems or used to organize wires and breakouts in electrical harnesses.

#### Benefits

- Resists fuels, salts and solvents, gasoline, and other common contaminants.
- Offers a tight, 12 mil braid that provides full coverage but will not rot or retain moisture.
- Performs well in wet applications and where abiding substrate has a smooth surface.
- Expands up to 150% of flat diameter for easy installation.



Material Data	
Material	Polyamide 6.6 (Nylon)
Flammability	Non-Flammable
Operating Temperature	-49°F to 302°F -45°C to 150°C
Melt Point	491°F / 255°C
Abrasion Protection	High
Recommended Cutting	Hot Knife



#### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length*		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-03069	1/4	6.4	BSPA66140	.125	.375	3.2	9.5	Black	200	61.0	.60	.27
170-03027	1/2	12.7	BSPA66120	.375	.75	9.5	19.1	Black	100	30.5	1.03	.47
170-03028	3/4	19.1	BSPA66340	.50	1.25	12.7	31.8	Black	75	22.9	1.10	.50
170-03029	1	25.4	BSPA66100	.625	1.375	15.9	35.0	Black	50	15.2	.80	.36
170-03030	1-1/4	31.8	BSPA661140	.75	1.50	19.1	38.1	Black	50	15.2	.89	.40
<b>Bulk Sized Reels</b>												
170-03070	1/4	6.4	BSPA66140B	.125	.375	3.2	9.5	Black	1000	304.8	3.10	1.41
170-03046	1/2	12.7	BSPA66120B	.375	.75	9.5	19.1	Black	500	152.4	5.15	2.34
170-03047	3/4	19.1	BSPA66340B	.50	1.25	12.7	31.8	Black	250	76.2	3.68	1.67
170-03048	1	25.4	BSPA66100B	.625	1.375	15.9	35.0	Black	250	76.2	4.0	1.81
170-03049	1-1/4	31.8	BSPA661140B	.75	1.50	19.1	38.1	Black	250	76.2	4.50	4

Use Part No. for ordering and Type for specification. \*Pre-cut lengths available upon request.



## Polyamide 6.6 Helagaine Expandable Braided Sleeving - Gray

Made from heat-stabilized monofilament strands, this lightweight protection is a tougher sleeving with excellent resistance to abrasion. Despite its sturdy composition, Helagaine is expandable and durable and can easily be applied over irregular surfaces.

### Application

Suitable for automotive and transportation industry applications for the protection of sensitive cables and wires from abrasion.

### Benefits

- Offers a strand diameter that is approximately 10% larger than that of polyester, allowing for greater expandability.
- Resists fuels, salts and solvents, gasoline, and other common contaminants.
- Performs well in wet applications and where abiding substrate has a smooth surface.



Material Data		
Material	Polyamide 6.6 (PA66)	
Flammability	UL 94-V2	
Operating Temperature	-76°F to 302°F -60°C to 150°C	
Melt Point	491°F / 255°C	
Abrasion Protection	High	
Recommended Cutting	Hot Knife	



### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-20400	1/8	4	HEGPA6604	.12	.24	3.0	6.1	Gray	656	200.0	1.1	.50
170-20600	3/16	6	HEGPA6606	.16	.32	4.1	8.1	Gray	328	100.0	1.3	.59
170-20800	1/4	8	HEGPA6608	.20	.40	5.1	10.2	Gray	328	100.0	1.1	.50
170-21000	3/8	10	HEGPA6610	.28	.47	7.0	12.0	Gray	328	100.0	2.09	.95
170-21200	1/2	12	HEGPA6612	.32	.55	8.1	14.0	Gray	328	100.0	2.4	1.1
170-21500	5/8	16	HEGPA6616	.47	.71	12.0	18.0	Gray	164	50	2.76	1.25
170-22000	3/4	20	HEGPA6620	.59	.91	15.0	23.1	Gray	164	50.3	3.1	1.41
170-22500	1	25	HEGPA6625	.71	1.10	18.0	28.0	Gray	164	50.3	3.9	1.77
170-23000	1-1/4	30	HEGPA6630	.98	1.26	24.9	32.0	Gray	164	50.3	4.9	2.22
170-25000	2	50	HEGPA6650	1.58	2.17	40.1	55.1	Gray	164	50.3	10.4	4.72

Use Part No. for ordering and Type for specification.



### Split Wrap Braided Sleeving

A bundling and protection option with a lateral split and a semi-rigid braid configuration that is the ideal solution for circumstances where ease of installation is the primary concern. The lateral split allows the sleeving to open up to adjust to the bundling requirement while the 25% edge overlap folds back over the connector or splices.



#### Application

More flexible than spiral wraps or convoluted tubing, this product is a fast and easy option for adding protection in post-assembly or post-installation situations.

#### Benefits

- Needs no fasteners (i.e., tape, hook and loop, etc.).
- Bends to a tight radius without distortion or splitting open.
- Allows future access without disassembly.
- Withstands cuts, abrasions and tension.

#### Material Data

Material	PET (Polyester)
Flammability	UL 94-V0
Operating Temperature	-94°F to 257°F -70°C to 125°C
Melt Point	482°F / 250°C
Abrasion Protection	Medium
Recommended Cutting	Hot Knife



#### Product Selection

Part No.	Nominal Size		Type	Wall Thickness		Color	Reel Length*		Weight	
	in.	mm.		in.	mm.		ft.	m.	lbs.	kg.
170-03037	1/4	6.4	BSPSW140	.025	.64	Black	100	30.5	.60	.27
170-03024	1/2	12.7	BSPSW120	.025	.64	Black	75	22.9	1.05	.48
170-03038	3/4	19.1	BSPSW340	.025	.64	Black	50	15.2	.80	.36
170-03025	1	25.4	BSPSW100	.038	.97	Black	50	15.2	1.0	.45
170-03026	1-1/4	31.8	BSPSW1140	.038	.97	Black	25	7.1	.60	.27
<b>Bulk Box</b>										
170-03124	1/8	3.2	BSPSW180B	.024	.61	Black	400	121.9	.80	.36
170-03125	1/4	6.4	BSPSW140B	.025	.64	Black	200	61.0	1.2	.54
170-03126	1/2	12.7	BSPSW120B	.025	.64	Black	150	45.7	2.1	.95
170-03127	3/4	19.1	BSPSW340B	.025	.64	Black	100	30.5	1.6	.73
170-03128	1	25.4	BSPSW100B	.038	.97	Black	100	30.5	2.0	.91
170-03129	1-1/4	31.8	BSPSW1140B	.038	.97	Black	75	22.9	1.8	.82
170-03130	1-1/2	38.1	BSPSW1120B	.038	.97	Black	75	22.9	2.1	.95
170-03131	2	50.8	BSPSW200B	.038	.97	Black	50	15.2	1.8	.82
<b>Large Bulk Sized Reels</b>										
170-03132	1/8	3.2	BSPSW180LB	.024	.61	Black	10,000	3,048.8	20.0	9.0
170-03133	1/4	6.4	BSPSW140LB	.025	.64	Black	3,000	914.4	18.0	8.2
170-03134	1/2	12.7	BSPSW120LB	.025	.64	Black	1,200	365.8	12.0	5.4
170-03135	3/4	19.05	BSPSW340LB	.025	.64	Black	500	152.4	16.8	7.6
170-03136	1	25.4	BSPSW100LB	.038	.97	Black	400	121.9	8.0	3.6
170-03137	1-1/4	31.8	BSPSW140LB	.038	.97	Black	300	91.4	8.0	3.6
170-03138	1-1/2	38.1	BSPSW1120LB	.038	.97	Black	200	61.0	7.2	3.3
170-03139	2	50.8	BSPSW200LB	.038	.97	Black	150	45.7	5.4	2.4

Use Part No. for ordering and Type for specification. \*Additional sizes available upon request.





### Split Wrap Braided Sleeving - Orange

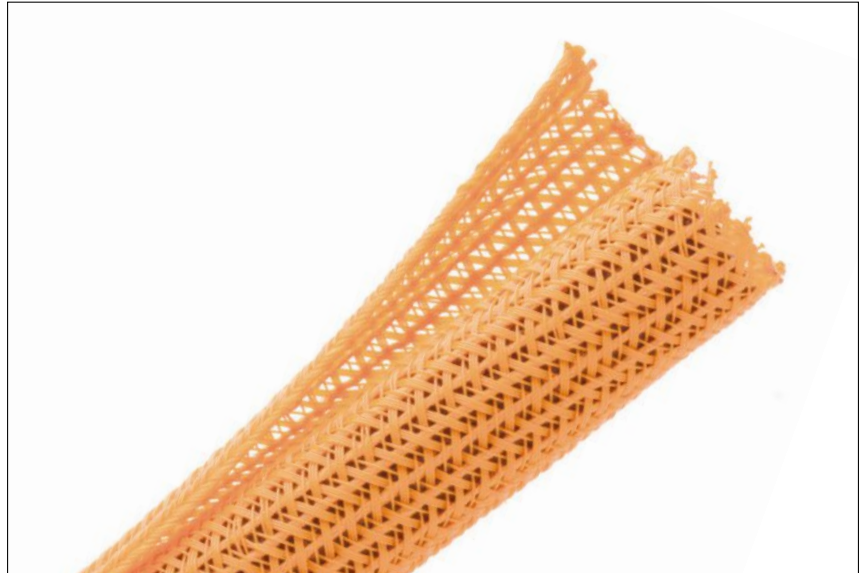
Used for safety identification, this bundling and protection option also offers a lateral split and a semi-rigid braid configuration that wraps around the bundle assembly without requiring any fasteners, such as hook & loop, cables ties or tape.

#### Application

A non-expandable product that is an uncomplicated option for adding protection and identification in electrical-powered vehicles, aircraft and automotive applications.

#### Benefits

- Contains the same physical properties of the General Purpose Black Split Wrap product.
- Needs no fasteners (i.e., tape, hook and loop, etc.).
- Bends to a tight radius without distortion or splitting open.
- Adapts easily and will not impair the flexibility of the harness assembly, nor will it fracture under stress.



Material Data	
Material	PET (Polyester)
Flammability	UL 94-V0
Operating Temperature	-94°F to 257°F -70°C to 125°C
Melt Point	482°F / 250°C
Abrasion Protection	Medium
Recommended Cutting	Hot Knife



#### Product Selection

Part No.	Nominal Size		Type	Wall Thickness		Color	Reel Length		Weight	
	in.	mm.		in.	mm.		ft.	m.	lbs.	kg.
170-03082	1/4	6.4	BSPSW143B	.025	.64	Orange	200	61.0	1.2	.54
170-03083	1/2	12.7	BSPSW123B	.025	.64	Orange	150	45.7	2.1	.95
170-03084	3/4	19.1	BSPSW343B	.025	.64	Orange	100	30.5	1.6	.73
170-03085	1	25.4	BSPSW103B	.038	.97	Orange	100	30.5	2.0	.91
170-03086	1-1/4	31.8	BSPSW1143B	.038	.97	Orange	75	22.9	1.8	.82
170-03087	1-1/2	38.1	BSPSW1123B	.038	.97	Orange	75	22.9	2.1	.95
170-03088	2	50.8	BSPSW203B	.038	.97	Orange	50	15.2	1.8	.82

Use Part No. for ordering and Type for specification.



## Hook & Loop Expandable Braided Sleeving

Designed for the quick and easy management of wires, this expandable sleeving has an internal hook and loop strap that is able to adhere to its outer PET braid, delivering flexibility that allows it to fit around odd-shaped connectors. Its color-matched hook-and-loop closure provides for an easy on-and-off installation, as well as instant and convenient access for harness break-outs and networks.

### Application

When component disassembly is not an option or when frequent access to bundles wires or cables is essential. The primary application for this sleeving is the wrapping and bunching of cables in a deployed situation (i.e., location recordings).

### Benefits

- Conforms to irregular shapes and contours.
- Wraps effortlessly over a cable bundle and closes; readily reopens.
- Saves time, allows those working on cables to easily splice or combine wires.
- Offers PET yarn construction for excellent protection against cuts and abrasions.



Material Data		
Material	PET (Polyester)	
Flammability	UL 94-VO	
Operating Temperature	94°F to 257°F -70°C to 125°C	
Melt Point	482°F / 250°C	
Abrasion Protection	Medium	
Recommended Cutting	Hot Knife	



### Product Selection

Part No.	Nominal Size		Type	Wall Thickness		Color	Reel Length		Weight	
	in.	mm.		in.	mm.		ft.	m.	lbs.	kg.
170-03148	1/2	12.7	BSHKLP120B	.25	6.4	Black	100	30.5	1.3	.60
170-03149	3/4	19.1	BSHKLP340B	.63	16.0	Black	100	30.5	1.8	.82
170-03150	1-1/4	31.8	BSHKLP1140B	.63	16.0	Black	100	30.5	2.3	1.04
170-03151	2	50.8	BSHKLP200B	.63	16.0	Black	100	30.5	3.2	1.45
170-03152	2.5	63.5	BSHKLP212B	.63	16.0	Black	100	30.5	3.75	1.7

Use Part No. for ordering and Type for specification.



## Plenum Rated Halar® Expandable Braided Sleeving

Halar® self-extinguishing sleeving is used where flammability, high temperature endurance and low outgassing are the concern. This sleeving is made from strands of high temperature, flame resistant Halar monofilaments that are able to resist a wide range of corrosive chemicals and organic solvents.

### Application

Its low flame spread and smoke generation properties make it the perfect option for use in technologically-advanced applications, such as those in the automotive, aerospace and vital military markets.

### Benefits

- Resists gasoline and engine chemicals.
- Exceeds automotive industry requirements of FMVSS 302 as well as aviation industry requirements of FAR 25.
- Expands up to 150% for economical and expeditious installation.
- Withstands abrasion and won't degrade when exposed to Cobalt 60 radiation conditions.
- Meets UL 2024 and NFPA 262 specifications for plenum applications.



### Material Data

Material	Ethylene Chlorotrifluoroethylene Monofilament (ECTFE)
Flammability	UL VW-1
Operating Temperature	-103°F to 302°F -75°C to 150°C
Melt Point	482°F / 250°C
Abrasion Protection	Medium
Recommended Cutting	Hot Knife



### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-03098	1/8	3.2	BSHLR180	.094	.25	2.4	6.4	Black	225	68.6	.6	.27
170-03100	1/4	6.4	BSHLR140	.125	.437	3.2	11.1	Black	200	61.0	.8	.36
170-03102	3/8	9.5	BSHLR380	.187	.625	4.7	15.9	Black	125	38.1	1.1	.50
170-03104	1/2	12.7	BSHLR120	.25	.75	6.4	19.1	Black	100	30.5	1.1	.50
170-03106	3/4	19.1	BSHLR340	.50	1.25	12.7	31.8	Black	75	22.9	1.3	.60
170-03108	1	25.4	BSHLR100	.625	1.625	15.9	41.3	Black	65	19.8	1.4	.64
170-03110	1-1/4	31.8	BSHLR1140	.75	1.75	19.1	44.5	Black	50	15.2	1.3	.60
170-03112	1-3/4	44.4	BSHLR1340	1.25	2.75	31.8	69.9	Black	30	9.1	1.3	.60
170-03114	2	50.8	BSHLR200	1.50	3.50	38.1	88.9	Black	50	15.2	2.3	1.04
170-03099	1/8	3.2	BSHLR1810	.094	.25	2.4	6.4	White	225	68.6	.6	.27
170-03101	1/4	6.4	BSHLR1410	.125	.437	3.2	11.1	White	200	61.0	.8	.36
170-03103	3/8	9.5	BSHLR3810	.187	.625	4.8	15.9	White	125	38.1	1.1	.50
170-03105	1/2	12.7	BSHLR1210	.25	.75	6.4	19.1	White	100	30.5	1.1	.50
170-03107	3/4	19.1	BSHLR3410	.50	1.25	12.7	31.8	White	75	22.9	1.3	.60
170-03109	1	25.4	BSHLR1010	.625	1.625	15.9	41.3	White	65	19.8	1.4	.64
170-03111	1-1/4	31.8	BSHLR11410	.75	1.75	19.1	44.5	White	50	15.2	1.3	.60
170-03113	1-3/4	44.4	BSHLR13410	1.25	2.75	31.8	69.9	White	30	9.1	1.3	.60
170-03115	2	50.8	BSHLR2010	1.50	3.50	38.1	88.9	White	50	15.2	2.3	1.04

Use Part No. for ordering and Type for specification.  
 Halar® is a registered trademark of the Solvey Solexis Corporation.  
 Halar product is produced on 8" diameter mini spools, which will not fit in merchandising display.



### Extreme High Temperature Resin Saturated Fiberglass Expandable Braided Sleeving

An extremely high-temperature resistant sleeve designed as protection for wires and cables subjected to continuous temperature variations, vibration, abrasion, and mechanical stress.

#### Application

Perfect for engine manifolds and exhaust systems or any application where fire and exceeding temperatures create a hazard to workforce and equipment.

#### Benefits

- Provides thermal protection up to 1,200°F.
- Maintains its tight structure under extreme shaking, scraping, pressure and varying temperature conditions.
- Cuts cleanly with scissors and installs easily.
- Comes in a wide range of diameters.



Material Data	
Material	Resin Saturated Fiberglass
Flammability	UL VW-1
Operating Temperature	-94°F to 1,202°F -70°C to 650°C
Melt Point	2,048°F / 1,120°C
Abrasion Protection	Very High
Recommended Cutting	Scissors



#### Product Selection

Part No.	Nominal Size		Type	Wall Thickness		Maximum Diameter		Color	Reel Length		Weight	
	in.	mm.		in.	mm.	in.	mm.		ft.	m.	lbs.	kg.
170-03058	1/4	6.4	BSHTFG140	.031	.79	.375	9.5	Black	50	15.2	1.0	.45
170-03059	1/2	12.7	BSHTFG120	.046	1.67	.75	19.1	Black	50	15.2	2.4	1.1
170-03060	3/4	19.1	BSHTFG340	.046	1.67	1.125	28.6	Black	50	15.2	3.2	1.5
170-03061	1	25.4	BSHTFG100	.057	1.45	1.625	41.3	Black	25	7.6	2.6	1.2
<b>Bulk Sized Reels</b>												
170-03050	1/4	6.4	BSHTFG140B	.031	.79	.375	9.5	Black	200	61.0	4.0	1.81
170-03051	1/2	12.7	BSHTFG120B	.046	1.17	.75	19.1	Black	200	61.0	9.6	4.35
170-03052	3/4	19.1	BSHTFG340B	.046	17	1.125	28.6	Black	200	61.0	12.8	5.81
170-03053	1	25.4	BSHTFG100B	.057	1.45	1.625	41.3	Black	100	30.5	10.5	4.76

Use Part No. for ordering and Type for specification.



## High Temperature Nomex® Expandable Braided Sleeving

Manufactured with densely woven aramid fibers, this soft and flexible sleeving is self-extinguishing and is able to withstand temperatures reaching up to 662°F.

### Application

Excellent for use in extremely harsh environments including those with exposure to direct flame, high temperatures, as well as Beta, Gamma and X-ray radiation – in particular, military and aerospace wiring and harnessing applications.

### Benefits

- Does not melt and is unaffected by most acids.
- Provides excellent thermal stability against flames.
- Meets FMVSS 302 approval for use in automotive engineering.
- Cuts with ordinary scissors which reduces assembly time.



### Material Data

Material	Polyaramid Polymetaphenylene Isophthalamide
Flammability	Non-Flammable
Operating Temperature	-320°F to 662°F -196°C to 350°C
Melt Point	N/A
Abrasion Protection	Low
Recommended Cutting	Scissors



### Product Selection

Part No.	Nominal Size		Type	Expansion Range		Expansion Range		Color	Reel Length		Weight	
	in.	mm.		(Min.) in.	(Max.) in.	(Min.) mm.	(Max.) mm.		ft.	m.	lbs.	kg.
170-03158	1/8	3.2	BSNMX185B	.062	.25	1.6	6.4	Green	100	30.5	.12	.05
170-03159	1/4	6.4	BSNMX145B	.125	.312	3.2	7.9	Green	100	30.5	.50	.23
170-03160	3/8	9.5	BSNMX385B	.25	.50	6.4	12.7	Green	100	30.5	.67	.30
170-03161	1/2	12.7	BSNMX125B	.312	.625	7.9	15.9	Green	100	30.5	.91	.41
170-03162	3/4	19.1	BSNMX345B	.562	1	14.3	25.4	Green	100	30.5	1.34	.61
170-03163	1	25.4	BSNMX105B	.75	1.12	19.1	28.6	Green	100	30.5	2.42	1.1
170-03164	1-1/4	31.8	BSNMX1145B	1	1.5	25.4	38.1	Green	100	30.5	3.49	1.58
170-03165	1-1/2	38.1	BSNMX1125B	1.25	1.75	31.8	44.4	Green	100	30.5	4.03	1.83
170-03166	1-3/4	44.4	BSNMX1345B	1.50	2	38.1	50.9	Green	100	30.5	4.76	2.16

Use Part No. for ordering and Type for specification.  
Nomex® is a registered trademark of the DuPont Corporation.



## High Temperature Aluminum Laminated Fiberglass Sleeving

A tubular shaped product that combines the protection of bonded aluminum and fiberglass into a single solution that is able to reflect radiant heat away from the sensitive contents inside the tube.

### Application

Terrific for applications when appearance and insulation are important for protecting delicate wire bundles, cables and hoses from damage caused by nearby exhaust pipes, headers or heat-generating components.

### Benefits

- Adds a layer of protection that prevents scraping; cut and abrasion resistant.
- Resists gasoline and engine chemicals.
- Creates an insulation barrier for vulnerable cable and wire materials within high-temperature environments.
- Cuts cleanly with scissors.



Material Data	
Material	Bonded Aluminum + Fiberglass
Flammability	Non-Flammable
Operating Temperature	-76°F to 491°F -60°C to 255°C
Melt Point	2,048°F / 1,120°C
Abrasion Protection	N/A
Recommended Cutting	Scissors



### Product Selection

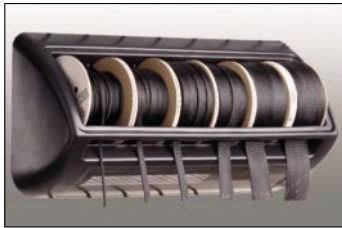
Part No.	Nominal Size*		Type	Wall Thickness *.006 in.		Maximum Diameter		Color	Reel Length		Weight	
	in.	mm.		in.	mm.	in.	mm.		ft.	m.	lbs.	kg.
170-03175	3/8	9.7	BSHTTST38SR	.025	.64	.317	8.1	Silver	100	30.5	2.3	1.1
170-03062	1/2	12.7	BSHTTST12SR	.025	.64	.437	11.1	Silver	100	30.5	2.6	1.2
170-03063	3/4	19.1	BSHTTST34SR	.025	.64	.687	17.4	Silver	100	30.5	3.5	1.6
170-03064	1	25.4	BSHTTST10SR	.025	.64	.937	23.8	Silver	100	30.5	4.5	2.0
170-03065	1-3/4	44.5	BSHTTST134SR	.025	.64	1.687	42.8	Silver	50	15.2	3.7	1.7
170-03097	2-1/2	63.5	BSHTTST212SR	.025	.64	2.375	60.3	Silver	50	15.2	5.05	2.3
<b>Bulk Sized Reels</b>												
170-03054	1/2	12.7	BSHTTST12SRB	.025	.64	.437	11.1	Silver	250	76.2	6.37	2.90
170-03055	3/4	19.1	BSHTTST34SRB	.025	.64	.687	17.4	Silver	250	76.2	8.62	3.91
170-03056	1	25.4	BSHTTST10SRB	.025	.64	.937	23.8	Silver	250	76.2	11.2	5.08
170-03057	1-3/4	44.5	BSHTTST134SRB	.025	.64	1.687	42.8	Silver	100	30.5	7.40	3.36

Use Part No. for ordering and Type for specification. \*Nominal size measures external diameter of sleeving.



### Merchandising Display Rack

Designed to save space and provide easy access when dispensing braided sleeving, this unit allows for the efficient handling and management of sleeving.



- Simplifies cut-to-length counter sales.
- Dispenses easily from preformed slot.
- Includes mounting hardware.
- Constructed of durable ABS plastic.
- Holds six standard-sized spools; drop-in reels sold separately.
- Dimensions: 23.5"(W) x 10"(D) x 6"(H)

Product Selection		
Part No.	Type	Color
170-03031	BSDISPLAY	Black

Use Part No. for ordering and Type for specification.

### Split Wrap Installation Tool

Use this wire loom tool to guide a cable or insert a cable harness inside the split wrap sleeving. Eases addition and removal of wires quickly and easily while protecting installer's hands from cuts. Can also be used with split loom convoluted tubing.



Product Selection			
Part No.	Size	Type	Description
170-03067	1/4"	BSWTOOL14	1/4" Split Wrap Installation Tool
170-03032	1/2"	BSWTOOL12	1/2" Split Wrap Installation Tool
170-03068	3/4"	BSWTOOL34	3/4" Split Wrap Installation Tool
170-03033	1"	BSWTOOL1	1" Split Wrap Installation Tool
170-03034	1-1/4"	BSWTOOL114	1-1/4" – Split Wrap Installation Tool

Use Part No. for ordering and Type for specification.

### Bench and Handheld Hot Knife Tools

For the best results during sleeving installation, the sleeving should be cut with a hot knife.



Bench Mount Braided Sleeve Hot Knife

- Designed for production Environments
- Uses 2.5" blade
- Lighted power switch
- Heats to 1,112°F in 30 sec.
- 110 volt operation
- Replaceable blades



Handheld Braided Sleeve Hot Knife

- Trigger switch
- Heats quickly
- 110 volt operation
- Replaceable blades

Product Selection			
Part No.	Type	Color	Description
170-03039	BSBHK	White	Bench Mount Braided Sleeve Hot Knife
170-03040	BSPHK	Black	Handheld Braided Sleeve Hot Knife

Use Part No. for ordering and Type for specification.

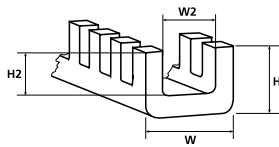
### Flexiform Edge Protection Grommet Strip

HellermannTyton's Flexiform grommet is a unique, continuous wire protection product which fits easily in all shapes and sizes of holes without the aid of tools or adhesives. Since Flexiform can be cut to the right length with scissors, it eliminates waste, helping keep grommet stock to a minimum. HellermannTyton's Flexiform grommet can be used on any type of material including wood, steel, aluminum, plexiglass, and glass. It is available in 9 sizes for thicknesses from .016" to .512".



Optimal protection of cables and wires at panel edges.

### Polyamide 6 Grommet



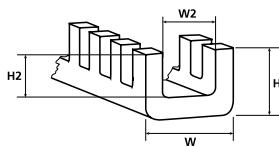
Flexiform grommet strip

Material Data		RoHS
Material	<b>Polyamide 6 (PA6)</b>	
Color	<b>Natural</b>	
Operating Temperature	<b>-76 °F to +203 °F (-60 °C to +95 °C)</b>	

Product Selection			Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Pkg. Qty.
Article No.	Part No.	Type	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	ft.
<b>Polyamide 6 (PA6)</b>								
251-21109	<b>FHA</b>	G51NA	.015" - .059" (0.4 - 1.5)	.154" (3.9)	.059" (1.5)	.169" (4.3)	.106" (2.7)	82 ft
251-21209	<b>FHB</b>	G51NB	.051" - .094" (1.3 - 2.4)	.181" (4.6)	.094" (2.4)	.169" (4.3)	.106" (2.7)	82 ft
251-21309	<b>FHC</b>	G51NC	.087" - .134" (2.2 - 3.4)	.224" (5.7)	.138" (3.5)	.169" (4.3)	.106" (2.7)	82 ft
251-21409	<b>FHD</b>	G51ND	.130" - .197" (3.3 - 5.0)	.331" (8.4)	.201" (5.1)	.244" (6.2)	.169" (4.3)	82 ft
251-21509	<b>FHE</b>	G51NE	.193" - .264" (4.9 - 6.7)	.390" (9.9)	.264" (6.7)	.252" (6.4)	.177" (4.5)	82 ft
251-21609	<b>FHF</b>	G51NF	.256" - .323" (6.5 - 8.2)	.449" (11.4)	.327" (8.3)	.268" (6.8)	.189" (4.8)	82 ft
251-21709	<b>FHG</b>	G51NG	.315" - .394" (8.0 - 10.0)	.520" (13.2)	.398" (10.1)	.268" (6.8)	.189" (4.8)	82 ft
251-21809	<b>FHH</b>	G51NH	.382" - .520" (9.7 - 13.2)	.646" (16.4)	.520" (13.2)	.268" (6.8)	.189" (4.8)	82 ft

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### Polyethylene Grommet



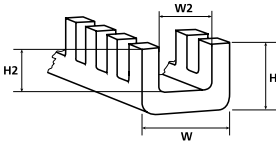
Flexiform grommet strip

Material Data		RoHS
Material	<b>Polyethylene (PE)</b>	
Color	<b>Natural</b>	
Operating Temperature	<b>-22 °F to +176 °F (-30 °C to +80 °C)</b>	

Product Selection			Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Pkg. Qty.
Article No.	Part No.	Type	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	ft.
<b>Polyethylene (PE)</b>								
251-10009	<b>FPAA</b>	G51PAA	.016" - .035" (0.4 - 0.9)	.087" (2.2)	.037" (0.95)	.094" (2.4)	.063" (1.6)	82 ft
251-10109	<b>FPA</b>	G51PA	.016" - .059" (0.4 - 1.5)	.154" (3.9)	.059" (1.5)	.169" (4.3)	.106" (2.7)	82 ft
251-10209	<b>FPB</b>	G51PB	.051" - .094" (1.3 - 2.4)	.181" (4.6)	.094" (2.4)	.169" (4.3)	.106" (2.7)	82 ft
251-10309	<b>FPC</b>	G51PC	.087" - .134" (2.2 - 3.4)	.224" (5.7)	.138" (3.5)	.169" (4.3)	.106" (2.7)	82 ft
251-10409	<b>FPD</b>	G51PD	.130" - .197" (3.3 - 5.0)	.331" (8.4)	.201" (5.1)	.244" (6.2)	.169" (4.3)	82 ft
251-10509	<b>FPE</b>	G51PE	.193" - .264" (4.9 - 6.7)	.390" (9.9)	.264" (6.7)	.252" (6.4)	.177" (4.5)	82 ft
251-10609	<b>FPF</b>	G51PF	.256" - .323" (6.5 - 8.2)	.449" (11.4)	.327" (8.3)	.268" (6.8)	.189" (4.8)	82 ft
251-10709	<b>FPG</b>	G51PG	.315" - .394" (8.0 - 10.0)	.520" (13.2)	.398" (10.1)	.268" (6.8)	.189" (4.8)	82 ft
251-10809	<b>FPH</b>	G51PH	.382" - .520" (9.7 - 13.2)	.646" (16.4)	.520" (13.2)	.268" (6.8)	.189" (4.8)	82 ft

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Flexiform Edge Protection Grommet Strip *continued* Teflon Grommet



Flexiform grommet strip

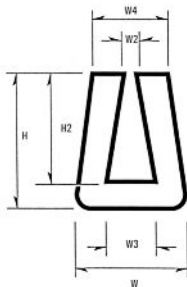
Material Data		RoHS
Material	Polytetrafluoroethylene -Teflon (PTFE)	
Color	Natural	
Operating Temperature	-76 °F to +500 °F (-60 °C to +260 °C)	
Flammability	non-burning	

Product Selection								
Article No.	Part No.	Type	Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Pkg. Qty.
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	ft.
<b>Polytetrafluoroethylene -Teflon (PTFE)</b>								
251-30109	FTA	G51TA	.015" - .059" (0.4 - 1.5)	.153" (3.9)	.059" (1.5)	.169" (4.3)	.106" (2.7)	9.7 ft
251-30209	FTB	G51TB	.051" - .094" (1.3 - 2.4)	.181" (4.6)	.094" (2.4)	.169" (4.3)	.106" (2.7)	9.7 ft
251-30309	FTC	G51TC	.087" - .134" (2.2 - 3.4)	.224" (5.7)	.138" (3.5)	.169" (4.3)	.106" (2.7)	9.7 ft
251-30409	FTD	G51TD	.130" - .196" (3.3 - 5.0)	.331" (8.4)	.201" (5.1)	.244" (6.2)	.169" (4.3)	9.7 ft
251-30509	FTE	G51TE	.193" - .264" (4.9 - 6.7)	.390" (9.9)	.264" (6.7)	.252" (6.4)	.177" (4.5)	9.7 ft
251-30609	FTF	G51TF	.256" - .323" (6.5 - 8.2)	.449" (11.4)	.327" (8.3)	.268" (6.8)	.189" (4.8)	9.7 ft
251-30709	FTG	G51TG	.315" - .394" (8.0 - 10.0)	.520" (13.2)	.398" (10.1)	.268" (6.8)	.189" (4.8)	9.7 ft
251-30809	FTH	G51TH	.382" - .520" (9.7 - 13.2)	.646" (16.4)	.520" (13.2)	.268" (6.8)	.189" (4.8)	9.7 ft

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. Teflon is a registered trademark of the DuPont Corporation.

## Self-Extinguishing Flexiform Grommet

HellermannTyton's Flexiform grommet is also manufactured from a self-extinguishing UL 94 V0 rated flexible PVC compound which ensures flexibility and ease of application.



Material Data		RoHS
Material	Flexible Polyvinyl Chloride, cadmium free (PVC)	
Color	Black	
Operating Temperature	-85 °F to +221 °F (-65 °C to +105 °C)	
Flammability	UL94 V0	

Product Selection										
Article No.	Part No.	Type	Panel Thickness	Width (W)	Width (W2)	Width (W3)	Width (W4)	Height (H)	Height (H2)	Pkg. Qty.
			in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	ft. (Meters)
<b>Flexible Polyvinyl Chloride, cadmium free (PVC)</b>										
800-00004	SM1BK75MT	SM1	.03937" - .07874" (1.0 - 2.0)	.1969"(5.0)	.03937"(1.0)	.07" (1.8)	.165" (4.2)	.248" (6.3)	.192" (4.9)	246.1 ft (75)

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

**Electrical Tape**



HellermannTyton electrical tapes are used for color coding, cable splicing, terminating, wire insulating, and more. These conformable, high quality tapes have exceptional surface adhesive characteristics.

**Installation**

For best results, the tape should be applied by using tension. When the application is complete, the memory of the tape returns, tightening the seal and making the taped area even more waterproof. For the best seal, each layer of tape should overlap the previous layer by approximately 50%. HellermannTyton electrical tapes are a fast, easy, and economical way of insulating, splicing, and terminating electrical connections.

Product Selection

Article No.	Part No.	Type	Width (W)		Color	Roll Length	Pkg. Qty.
			in.	(mm)			
<b>7.0 Mil PVC</b>							
904-00007	<b>ET330</b>	ET33	.75"	(19.05)	Black	33 ft/Roll	10 Rolls
904-00008	<b>ET660</b>	ET66	.75"	(19.05)	Black	66 ft/Roll	10 Rolls
<b>8.0 Mil PVC</b>							
904-00010	<b>ETCW660</b>	ETCW66	.75"	(19.05)	Black	66 ft/Roll	10 Rolls
<b>Butyl Rubber</b>							
904-0006	<b>ETSB6210</b>	ETSB	.75"	(19.05)	Black	21 ft/Roll	10 Rolls
<b>7.0 Mil PVC - Colors</b>							
904-00011	<b>ETST661</b>	ETST66	.75"	(19.05)	Brown	66 ft/Roll	10 Rolls
904-00012	<b>ETST6610</b>	ETST66	.75"	(19.05)	White	66 ft/Roll	10 Rolls
904-00014	<b>ETST662</b>	ETST66	.75"	(19.05)	Red	66 ft/Roll	10 Rolls
904-00016	<b>ETST663</b>	ETST66	.75"	(19.05)	Orange	66 ft/Roll	10 Rolls
904-00018	<b>ETST664</b>	ETST66	.75"	(19.05)	Yellow	66 ft/Roll	10 Rolls
904-00020	<b>ETST665</b>	ETST66	.75"	(19.05)	Green	66 ft/Roll	10 Rolls
904-00022	<b>ETST666</b>	ETST66	.75"	(19.05)	Blue	66 ft/Roll	10 Rolls
904-00024	<b>ETST667</b>	ETST66	.75"	(19.05)	Purple	66 ft/Roll	10 Rolls
904-00026	<b>ETST668</b>	ETST66	.75"	(19.05)	Gray	66 ft/Roll	10 Rolls

Dimensions are approximate and subject to technical changes.  
Use **Part No.** for ordering and **Type** for specification.

Material Data

Product Type and Material	Thickness	Technical	Operating Temperature	Description	Agency Approvals
ET & ETST (PVC)	7.0 mil	Adhesion: 16 oz./inch Tensile Strength: 15.4 lbs./inch Elongation: 180% Breakdown Voltage: 7,800 V	+20 °F to 176°F (-7 °C to +80 °C)	A heavy duty vinyl tape which is ideal for general purpose applications.	U.L. Listed, Meets U.L. 510, Meets Mil-Std. Mil - 1-7798-A
ETCW (PVC)	8.0 mil	Adhesion: 17 oz./inch Tensile Strength: 20 lbs./inch Elongation: 200% Breakdown Voltage: 8,600 V	0 °F to +194 °F (-18 °C to +90 °C)	A heavy duty vinyl tape which is ideal for cold weather installations and "weather resistant" for outdoor installations.	U.L. Listed, Meets U.L. 510, Meets Mil-Std. Mil - 1-24391-A
ETSB (Butyl Rubber)	20 mil	Adhesion: n/a Tensile Strength: n/a Elongation: 600% Breakdown Voltage: 14,000 V	-14 °F to +176 °F (-26 °C to +80 °C)	A self-bonding butyl rubber tape which provides void-free insulation over irregular surfaces, such as splices. Outstanding self-bonding properties.	U.L. Listed, Meets ASTM D-119