

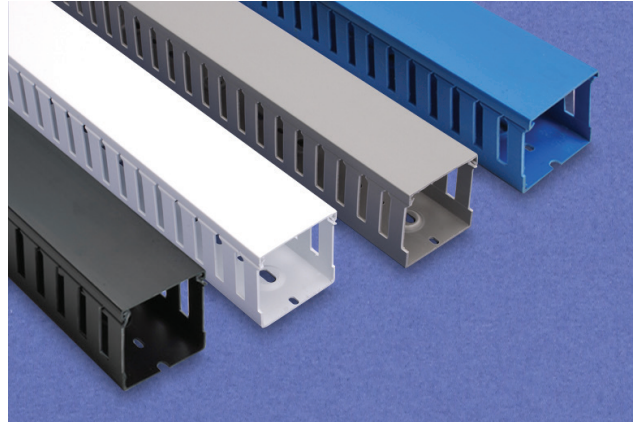
Wiring Duct – T1 Series - Slotted

Overview

Rugged wiring duct made of rigid PVC carries a UL 94V-0 flammability rating for your wire containment needs. All our wiring duct comes in 6.56 feet (2 meter) lengths, complete with cover. Replacement duct covers can be purchased separately.

Features

- Standard mounting holes
- Wide finger design provides greater rigidity and larger slot width
- Rounded, burr-free edges will not cut installers' hands or insulation
- Non-slip cover
- Flush cover design holds 10% -12% more wires than traditional designs
- Restricted slot design for fast and easy wire installation/removal
- Two predetermined break lines, one for breaking off and removal of sidewall finger segments only, and another for removal of sidewall finger and base segments
- Patented recess boss for fast mounting of components
- Intrinsic Blue color per ISA-RD12.6 (Instrument Society of America)
- Black color to compliment the look of historically black telecommunications racks and hardware
- Temperature range -15 to +50°C max.



UL Recognized file # E123572



To obtain the most current agency approval information, see the Agency Approval Checklist section on the

T1 Series Gray Open Slot Rigid PVC (including cover)

Part Number	Qty	Price
T1-0506G-1	1	
T1-0510G-1	1	
T1-1010G-1	1	
T1-1015G-1	1	
T1-1022G-1	1	
T1-1030G-1	1	
T1-1040G-1	1	
T1-1515G-1	1	
T1-1522G-1	1	
T1-1530G-1	1	
T1-1540G-1	1	
T1-2215G-1	1	
T1-2222G-1	1	
T1-2230G-1	1	
T1-2240G-1	1	
T1-3015G-1	1	
T1-3022G-1	1	
T1-3030G-1	1	
T1-3040G-1	1	
T1-3050G-1	1	
T1-4015G-1	1	
T1-4022G-1	1	
T1-4030G-1	1	
T1-4040G-1	1	
T1-4050G-1	1	
T1-6040G-1	1	

T1 Series White Open Slot Rigid PVC (including cover)

Part Number	Qty	Price
T1-1010W-1	1	
T1-1015W-1	1	
T1-1022W-1	1	
T1-1030W-1	1	
T1-1040W-1	1	
T1-1515W-1	1	
T1-1522W-1	1	
T1-1530W-1	1	
T1-1540W-1	1	
T1-2222W-1	1	
T1-2230W-1	1	
T1-2240W-1	1	
T1-3022W-1	1	
T1-3030W-1	1	
T1-3040W-1	1	
T1-3050W-1	1	
T1-4022W-1	1	
T1-4030W-1	1	
T1-4040W-1	1	
T1-4050W-1	1	
T1-6040W-1	1	

T1 Series Black Open Slot Rigid PVC (including cover)

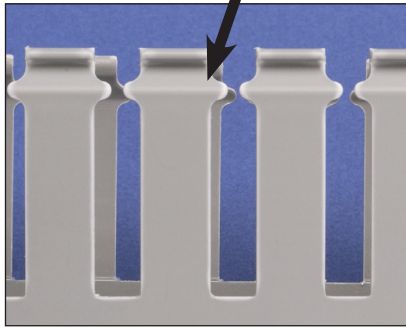
Part Number	Qty	Price
T1-1040K-1	1	
T1-1530K-1	1	
T1-2222K-1	1	
T1-2240K-1	1	
T1-3030K-1	1	
T1-3040K-1	1	
T1-3050K-1	1	
T1-4040K-1	1	
T1-4050K-1	1	

T1 Series Blue Open Slot Rigid PVC (including cover)

Part Number	Qty	Price
T1-1010B-1	1	
T1-1022B-1	1	
T1-1030B-1	1	
T1-1515B-1	1	
T1-1522B-1	1	
T1-1530B-1	1	
T1-2215B-1	1	
T1-2222B-1	1	
T1-2230B-1	1	
T1-3030B-1	1	
T1-4030B-1	1	
T1-4040B-1	1	

Wiring Duct – T1 Series

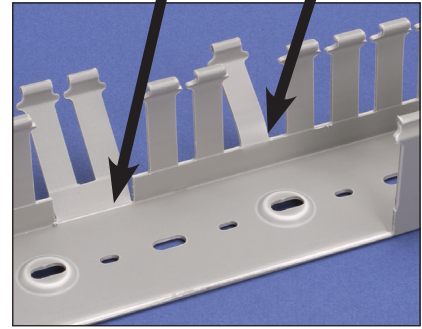
Restricted slot opening for wire retaining



Recess boss for rapid mounting of components

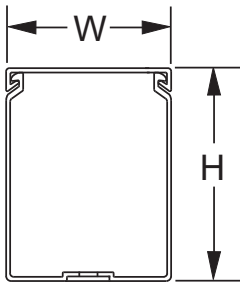


Two pre-determined breaklines

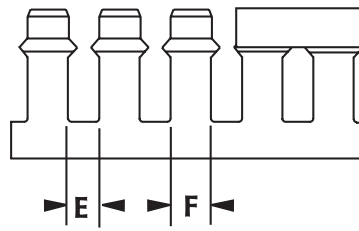


Burr-free edges

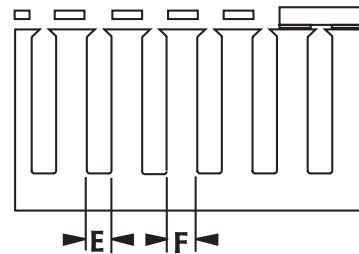
Dimensions



Nominal 5/8" - 1"



Nominal 1 1/2" - 2 1/4" - 3" - 4"



Open Slot Rigid PVC (including cover) Dimensions

Nominal Size (WxH) inches (mm)	Part Number	Actual Size (WxH) inches (mm)	Dimension E inches (mm)	Dimension F inches (mm)
0.50 x .625 (12.7 x 15.88)	T1-0506G-1	0.60 x .7 (15 x 18)	0.20 (5.08)	0.30 (7.62)
0.50 x 1.00 (12.7 x 25.4)	T1-0510G-1	0.60 x 1.18 (15 x 30)		
1.00 x 1.00 (25.4 x 25.4)	T1-1010-1*	1.00 x 1.18 (25 x 30)	0.31 (7.87)	0.47 (11.94)
1.00 x 1.50 (25.4 x 38.1)	T1-1015-1*	1.00 x 1.57 (25 x 40)		
1.00 x 2.25 (25.4 x 57.15)	T1-1022-1*	1.00 x 2.36 (25 x 60)		
1.00 x 3.00 (25.4 x 76.2)	T1-1030-1*	1.00 x 3.15 (25 x 80)		
1.00 x 4.00 (25.4 x 101.6)	T1-1040-1†	1.00 x 3.94 (25 x 100)		
1.50 x 1.50 (38.1 x 38.1)	T1-1515-1*	1.57 x 1.57 (40 x 40)		
1.50 x 2.25 (38.1 x 57.15)	T1-1522-1*	1.57 x 2.36 (40 x 60)		
1.50 x 3.00 (38.1 x 76.2)	T1-1530-1*†	1.57 x 3.15 (40 x 80)		
1.50 x 4.00 (38.1 x 101.6)	T1-1540-1*	1.57 x 3.94 (40 x 100)		
2.25 x 1.50 (57.15 x 38.1)	T1-2215G-1*	2.36 x 1.57 (60 x 40)		
2.25 x 2.25 (57.15 x 57.15)	T1-2222-1*†	2.36 x 2.36 (60 x 60)		
2.25 x 3.00 (57.15 x 76.2)	T1-2230-1*	2.36 x 3.15 (60 x 80)		
2.25 x 4.00 (57.15 x 101.6)	T1-2240-1†	2.36 x 3.94 (60 x 100)		
3.00 x 1.50 (76.2 x 38.1)	T1-3015G-1	3.15 x 1.57 (80 x 40)		
3.00 x 2.25 (76.2 x 57.15)	T1-3022-1*	3.15 x 2.36 (80 x 60)		
3.00 x 3.00 (76.2 x 76.2)	T1-3030-1*†	3.15 x 3.15 (80 x 80)		
3.00 x 4.00 (76.2 x 101.6)	T1-3040-1†	3.15 x 3.94 (80 x 100)		
3.00 x 5.00 (76.2 x 127)	T1-3050-1†	3.15 x 4.92 (75 x 125)		
4.00 x 1.50 (101.6 x 38.1)	T1-4015G-1	3.94 x 1.57 (100 x 40)		
4.00 x 2.25 (101.6 x 57.15)	T1-4022-1*	3.94 x 2.36 (100 x 60)		
4.00 x 3.00 (101.6 x 76.2)	T1-4030-1*	3.94 x 3.15 (100 x 80)		
4.00 x 4.00 (101.6 x 101.6)	T1-4040-1*†	3.94 x 3.94 (100 x 100)		
4.00 x 5.00 (101.6 x 127)	T1-4050-1†	3.94 x 4.92 (100 x 125)		
6.00 x 4.00 (152.4 x 101.6)	T1-6040-1*	5.91 x 3.94 (150 x 100)		

Duct Color Notes:

- Intrinsic Blue color per ISA-RD12.6 (Instrument Society of America)
- Black color typically used to compliment the look of historically black telecommunications racks and hardware

*Color: *add suffix "G" for Light Gray
 *add suffix "W" for White
 *add suffix "B" for Blue
 †add suffix "K" for Black

Note: All T1 duct comes in 6.56 feet (2m) lengths. Accessory bosses not present on 0.5 and 1.0 inch width duct.

Wiring Duct – T1 Series Wire Fill Capacity

Overview

The base perforation of the T1 wiring duct series allows mounting on the panel with rivets R6 or R4 or on DIN rails.

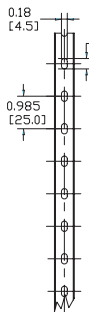
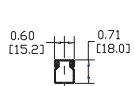
The recess bosses in the base permit rapid mounting of wire retainers (CL series), inserts (ZP2), and separators (SEP series) inside the wiring duct.

Note: Duct base perforation according to DIN 43659 and DIN VDE 0660 TEIL 506.

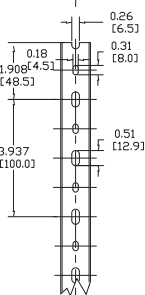
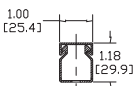
Wire Fill Capacity						
Nominal Duct Size (inches)	12 AWG	14 AWG		16 AWG	18 AWG	22 AWG
	Insulation Thickness					
	1/32	3/64	1/32	1/32	1/32	1/64
	OD-0.158	OD-0.165	OD-0.139	OD-0.125	OD-0.113	OD-0.065
Recommended Maximum Number of Wires per Wiring Duct (based on 50% fill capacity)						
1/2 x 5/8	7	6	9	11	14	43
1/2 x 1	12	11	16	20	24	74
1 x 1	22	21	29	36	44	134
1 x 1 1/2	31	28	39	48	59	180
1 x 2 1/4	45	40	57	71	85	261
1 x 3	59	53	75	92	113	341
1 x 4	72	66	93	115	141	426
1 1/2 x 1 1/2	51	46	65	81	99	299
1 1/2 x 2 1/4	77	70	98	121	148	449
1 1/2 x 3	102	92	130	160	196	593
1 1/2 x 4	125	113	159	197	241	729
2 1/4 x 1 1/2	78	70	99	123	150	453
2 1/4 x 2 1/4	114	103	146	180	221	667
2 1/4 x 3	156	141	199	246	302	912
2 1/4 x 4	194	176	247	306	375	1132
3 x 1 1/2	105	95	134	165	203	612
3 x 2 1/4	159	144	203	251	307	928
3 x 3	214	193	272	337	412	1246
3 x 4	267	242	341	421	515	1558
3 x 5	309	283	399	493	604	1826
4 x 1 1/2	132	120	169	208	255	771
4 x 2 1/4	201	182	256	316	387	1171
4 x 3	270	244	344	425	520	1573
4 x 4	336	305	429	531	650	1963
4 x 5	415	381	536	663	812	2455
6 x 4	512	464	653	807	988	2987

Dimensions inches (mm)

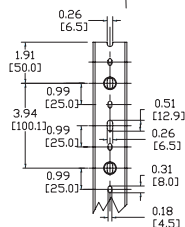
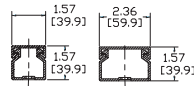
T1-0506



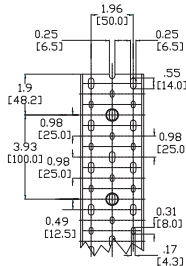
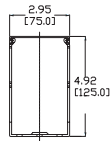
T1-1010



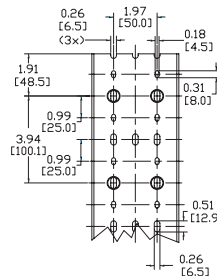
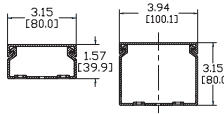
T1-15** and T1-22**



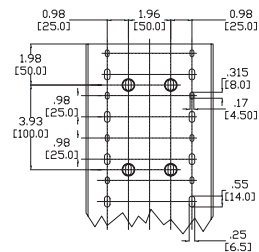
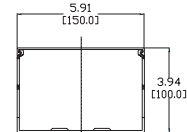
T1-3050 only



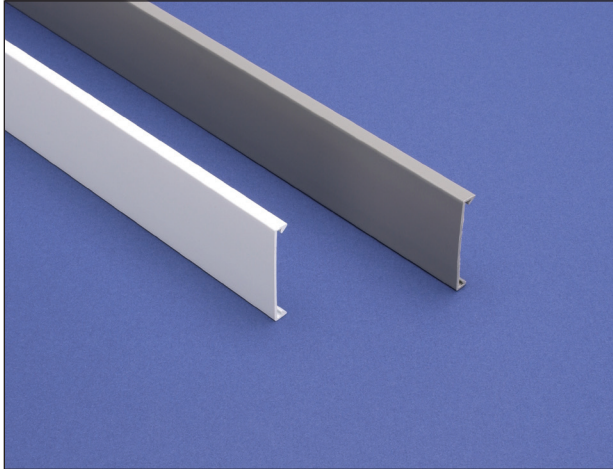
T1-30** and T1-40**



T1-6040



Wiring Duct Cover



Duct Cover

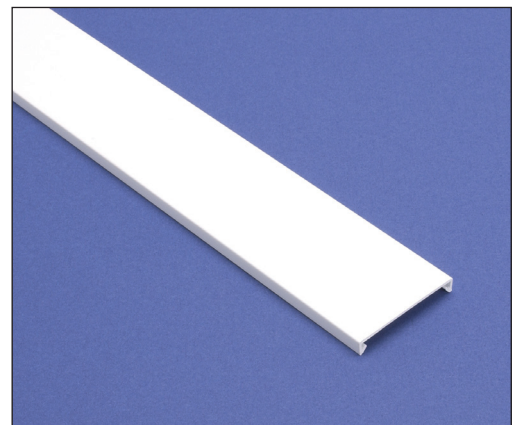
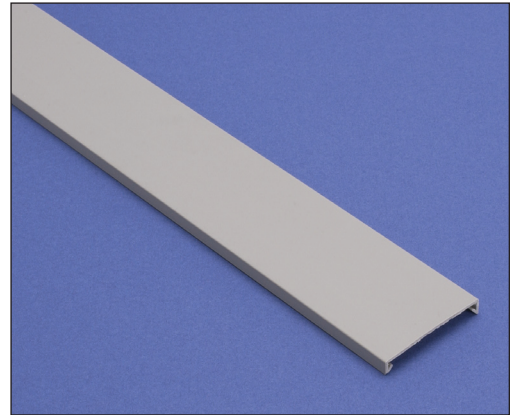
Our standard wire duct products are supplied complete with covers. These replacement covers are manufactured from the same rigid self-extinguishing PVC material.

UL Recognized file # E123572



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Duct Cover Specifications					
Part Number	Price	Description	Color	Qty	Actual Total Length ft (m)
COV-05G-1		Cover for 0.5" wide duct	Gray	1	6.56 (2)
COV-10G-1		Cover for 1.0" wide duct	Gray	1	6.56 (2)
COV-10W-1		Cover for 1.0" wide duct	White	1	6.56 (2)
COV-15G-1		Cover for 1.5" wide duct	Gray	1	6.56 (2)
COV-15W-1		Cover for 1.5" wide duct	White	1	6.56 (2)
COV-22G-1		Cover for 2.25" wide duct	Gray	1	6.56 (2)
COV-22W-1		Cover for 2.25" wide duct	White	1	6.56 (2)
COV-30G-1		Cover for 3.0" wide duct	Gray	1	6.56 (2)
COV-30W-1		Cover for 3.0" wide duct	White	1	6.56 (2)
COV-40G-1		Cover for 4.0" wide duct	Gray	1	6.56 (2)
COV-40W-1		Cover for 4.0" wide duct	White	1	6.56 (2)
COV-60G-1		Cover for 6.0" wide duct	Gray	1	6.56 (2)
COV-60W-1		Cover for 6.0" wide duct	White	1	6.56 (2)

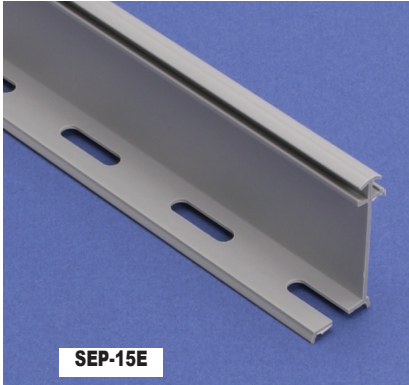


Note: Standard length of covers is 6.56 feet (2m) to fit T1, T1E and TSH duct.

Wiring Duct – Accessories

Duct Separators

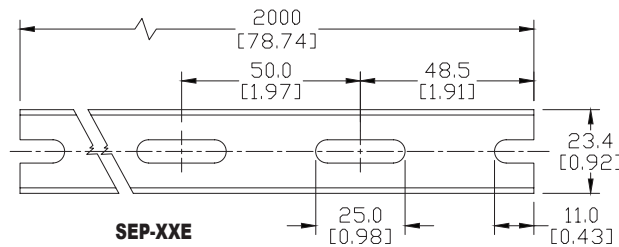
Duct separators allow the physical separation of circuits within a single piece of duct. The various mounting arrangements allow alternate compartmentalization of duct and differing ratios of usable sections.



Duct Separators					
Part Number	Price	Description	Color	Qty	Length ft (m)
SEP-15E-1		Separator for 1.5" high duct	Gray	1	6.56 (2)
SEP-22E-1		Separator for 2.25" high duct	Gray	1	6.56 (2)
SEP-30E-1		Separator for 3.0" high duct	Gray	1	6.56 (2)

Note: Length of separators is 6.56' (2m).

Dimensions
inches (mm)

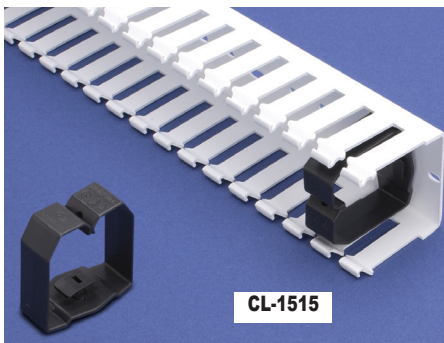


SEP-E Mounting Detail
Order ZP1 mount separately

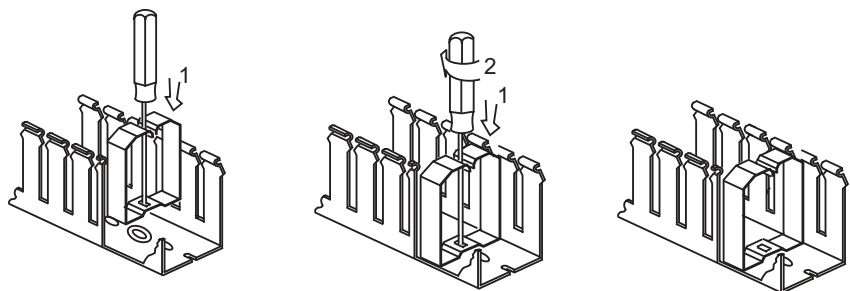
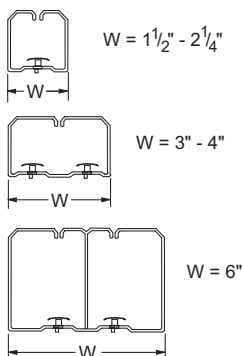


Wire Retainers

For holding wires during wiring operations, these retainers are essential. They allow easy access to the interior of the wiring duct during maintenance or alterations, while assuring that wiring bundles will not fall out when the duct cover is removed. Installed with a simple rotating movement, they anchor firmly in the recess boss in the duct base.



Wire Retainers				
Part Number	Price	Description	Color	Qty
CL-1515		Wire retainer fastener for 1.5" x 1.5" duct	Gray	40
CL-1522		Wire retainer fastener for 1.5" x 2.25" duct	Gray	40
CL-1530		Wire retainer fastener for 1.5" x 3.0" duct	Gray	20
CL-2215		Wire retainer fastener for 2.25" x 1.5" duct	Gray	40
CL-2222		Wire retainer fastener for 2.25" x 2.25" duct	Gray	20
CL-2230		Wire retainer fastener for 2.25" x 3.0" duct	Gray	20
CL-2240		Wire retainer fastener for 2.25" x 4.0" duct	Gray	20
CL-3022		Wire retainer fastener for 3.0" x 2.25" duct	Gray	10
CL-3030		Wire retainer fastener for 3.0" x 3.0" duct	Gray	10
CL-3040		Wire retainer fastener for 3.0" x 4.0" duct	Gray	10
CL-4022		Wire retainer fastener for 4.0" x 2.25" duct	Gray	10
CL-4030		Wire retainer fastener for 4.0" x 3.0" duct	Gray	10
CL-4040		Wire retainer fastener for 4.0" x 4.0" duct	Gray	5
CL-6040		Wire retainer fastener for 6.0" x 4.0" duct	Gray	5

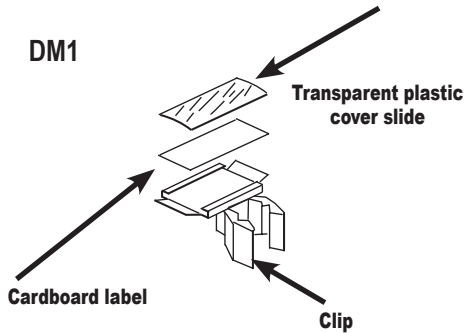


Wiring Duct – Accessories

Duct Marking Tags

Part Number	Price	Description	Qty
DM1		Single-width white cardboard identification label for wiring duct. Supplied with black plastic mounting clip and transparent plastic cover slide	50

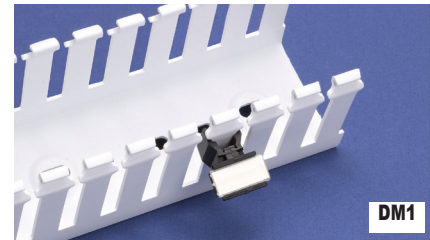
Note: DM1 marking tags can only be used with T1 series wire duct.



Identification Tags

Allowing easy identification of control gear and switchgear, these tags are mounted by snapping the clip onto the sidewall finger segments of the duct. No gluing - no drilling! After installation, they need not be removed during maintenance or any work which involves the removal of the covers.

Note: Take care that clip is installed above the wires coming out to the sidewall slots.

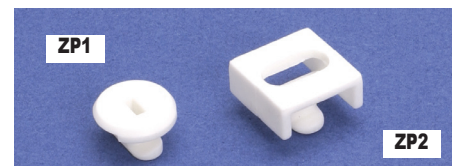
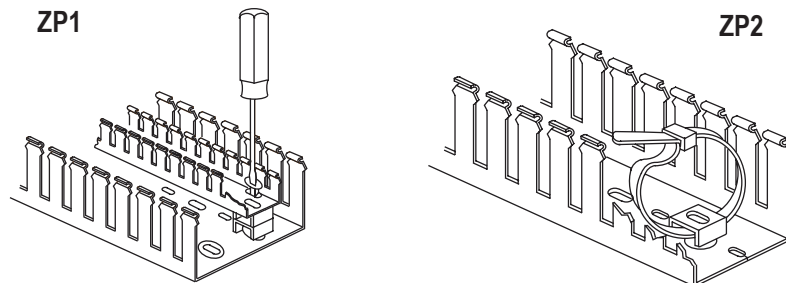


Mounting Devices

Part Number	Price	Description	Qty
ZP1		Round, white polyamide 'button' used to mount components and separators inside duct.	100
ZP2		Square white polyamide cable tie mount used to tighten a wire bundle inside duct.	50

Mounting Inserts

We carry mounts in two styles: ZP1 for mounting components and separators inside duct, or for mounting small sizes of duct inside larger sizes (for separation of circuits with different functions); and ZP2, which is used with a cable tie to secure a wire bundle inside the duct.



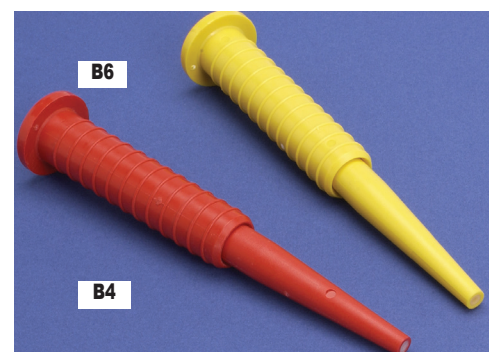
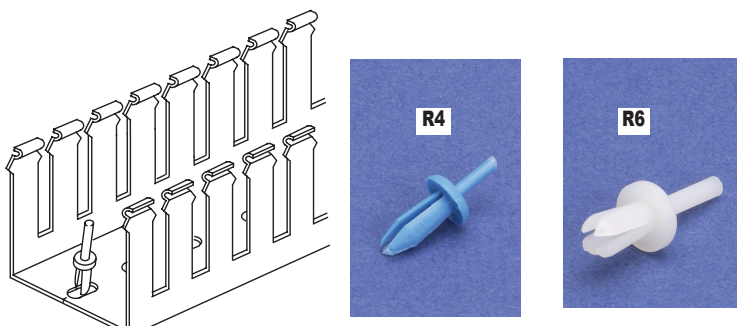
Wiring Duct Rivets and Rivet Tools

Part Number	Price	Description	Qty
R4*		Blue polyamide rivet used to install all types of wiring duct with standard 4.5 mm [0.17 in] mounting holes.	250
B4		Red polyamide rivet tool used to install R4 rivets.	1
R6*		Natural polyamide rivet used to install all types of wiring duct with standard 6.5 mm [0.26 in] mounting holes.	250
B6		Yellow polyamide rivet tool used to install R6 rivets.	1

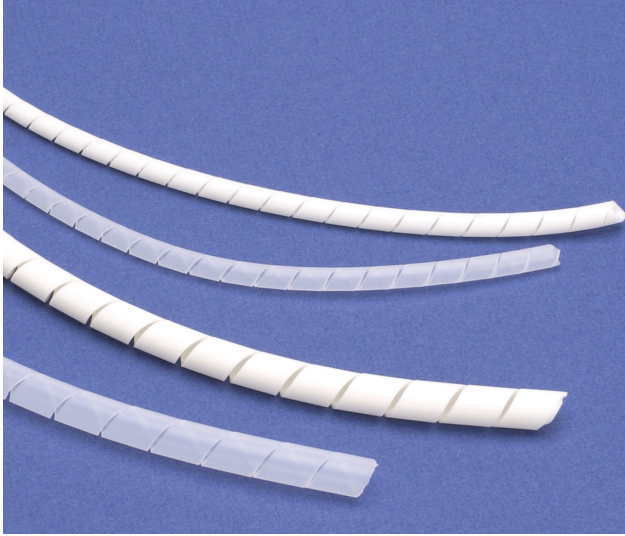
* R4 drill hole size - 5/32" (4mm), R6 drill hole size - 7/32" (5.5mm)

Rivets and Rivet Tools

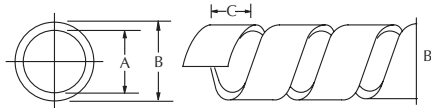
Wiring duct rivets install quickly and easily with the companion rivet tool, offering good temperature resistance and excellent mechanical properties. They can be used to install all types of wiring duct with standard mounting holes.



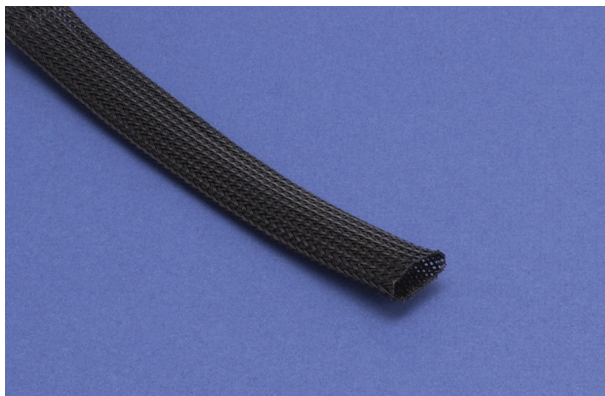
Wiring Duct – Accessories



Dimensions



Part Number		Dimensions in Inches			Wire Bundle Size in Inches	Feet per Carton
Polyethylene	Flame-Retardant Polyethylene	A	B	C		
<u>P-1</u>	<u>PA1</u>	.06	.12	.20	1/16 to 1/2	160
<u>P-2</u>	<u>PA2</u>	.16	.24	.31	¼ to 2	80
<u>P-3</u>	<u>PA3</u>	.31	.39	.47	3/8 to 3	80
<u>P-4</u>	<u>PA4</u>	.35	.47	.47	½ to 4	65



Braided Expandable Sleeving Material Specifications

Operating Temp	-50 to +150°C (-58 to +302°F)
Physical Properties	Self-extinguishing for UL 94V-2
Maximum Elongation	42%
Diameter Expansion	100%
Other	Halogen-free

Spiral Wrap

For neatly grouping wire bundles simply and economically, spiral wrap has no equal. Strong, yet easy to install, it protects the wire bundle, keeping it flexible though tightly contained. It is easily removed and reusable for temporary wiring.

Spiral Wrap				
Part Number	Price	Description	Color	Length
<u>P-1</u>		0.125" nominal o.d. Polyethylene spiral wrap used for wire bundles from 1/16 to 1/2 inch diameter.	Natural	160 ft./pack
<u>PA1</u>		0.125" nominal o.d. self-extinguishing Polyethylene spiral wrap used for wire bundles from 1/16 to 1/2 inch diameter.	White	160 ft./pack
<u>P-2</u>		0.25" nominal o.d. Polyethylene spiral wrap used for wire bundles from 1/4 to 2 inch diameter.	Natural	80 ft./pack
<u>PA2</u>		0.25" nominal o.d. self-extinguishing Polyethylene spiral wrap used for wire bundles from 1/4 to 2 inch diameter.	White	80 ft./pack
<u>P-3</u>		0.375" nominal o.d. Polyethylene spiral wrap used for wire bundles from 3/8 to 3 inch diameter.	Natural	80 ft./pack
<u>PA3</u>		0.375" nominal o.d. self-extinguishing Polyethylene spiral wrap used for wire bundles from 3/8 to 3 inch diameter.	White	80 ft./pack
<u>P-4</u>		0.5" nominal o.d. Polyethylene spiral wrap used for wire bundles from 1/2 to 4 inch diameter.	Natural	65 ft./pack
<u>PA4</u>		0.5" nominal o.d. self-extinguishing Polyethylene spiral wrap used for wire bundles from 1/2 to 4 inch diameter.	White	65 ft./pack

Braided Sleeving

This lightweight, expandable, self-extinguishing polyester sleeving has an open weave to allow maximum diameter expansion. It is super-flexible and easy to install, gripping objects of various shapes and sizes reliably. Abrasion-resistant, it provides extra protection against chemicals and flame.

Expandable Sleeving				
Part Number	Price	Description	Color	Length
<u>TY-5</u>		Braided expandable polyester sleeving, 0.197"(5mm) nominal i.d., 0.157"(4mm) to 0.472"(12mm) nominal range	Black	325 ft./pack
<u>TY-10</u>		Braided expandable polyester sleeving, 0.375"(10mm) nominal i.d., 0.315"(8mm) to 0.866"(22mm) nominal range	Black	325 ft./pack
<u>TY-20</u>		Braided expandable polyester sleeving, 0.750"(20mm) nominal i.d., 0.630"(16mm) to 1.378"(35mm) nominal range	Black	164 ft./pack
<u>TY-30</u>		Braided expandable polyester sleeving, 1.125"(30mm) nominal i.d., 0.984"(25mm) to 1.890"(48mm) nominal range	Black	164 ft./pack
<u>TY-50</u>		Braided expandable polyester sleeving, 2.0"(50mm) nominal i.d., 1.575"(40mm) to 2.825"(72mm) nominal range	Black	164 ft./pack

Wiring Duct – Material Specifications

Material Specifications								
Materials	Test Standard	Unit of Measure	Rigid PVC	Polypropylene	PVC Molded Components	Polyamide 6	Polyethylene	Flame Retardant Polyethylene
Technical Characteristics								
Chemical/Physical Properties								
Specific Gravity	ASTM D792	g/cm ³	1.55	1.01	1.32	1.14	0.92	0.97
H ₂ O 73.4°F Absorption	ISO 62	%	<0.1	0.02	<0.1	2.5	<0.1	<0.1
Formaldehyde	–	ppm	absent	absent	absent	absent	absent	absent
Cadmium	–	ppm	absent	absent	absent	absent	absent	absent
Mechanical Properties								
Tensile Stress at Break	ASTM D638	MPa	39	28	30	45	17	15
Traction Strength	ASTM D638	MPa	44	27	27	55	9.5	9
Elongation at Break	ASTM D638	%	130	200	97	250	400	600
Modulus of Elasticity at Traction	ASTM D638	MPa	4400	n/a	–	950	–	240
Modulus of Elasticity at Flexion	ASTM D790	MPa	3200	2100	–	1100	210	130
Thermal Properties								
Temperature VICAT	ASTM D1525	°C	84	95	70	198	89	–
HDT	ASTM D648	°C	72	60	60	185	–	–
Coefficient of Expansion	ASTM D696	K ⁻¹	6 10 ⁻⁵	10 ⁻⁵	8 10 ⁻⁵	8-10 10 ⁻⁵	22 10 ⁻⁵	10 ⁻⁵
Specific Heat	ASTM C351	kJ/kgK	0.94	n/a	1.24	1.7	–	–
Thermal Conductivity	ASTM C177	W/mK	0.14	0.21	0.14	0.29	0.32	0.32
Electrical Properties								
Dielectric Constant	ASTM D150	–	3.2 - 4.0	2.5	3.2	5.0	2.4	2.3
Dielectric Strength	IEC 243	kV/mm	70	25	60	35	90	90
Surface Resistance	IEC 93	Ω	10 ¹³	10 ¹³	10 ¹³	5 10 ¹¹	10 ¹³	10 ¹³
Self-Extinguishing								
Self-Extinguishing UL 94 1.6 mm	UL 94	–	V-0	V-0	V-0	V-2	HB	V-2
Self-Extinguishing UL 94 3.2 mm	UL 94	–	V-0	V-0	V-0	V-2	HB	V-2
Hot Wire Test (2 mm)	IEC 695-2-1	°C	960	960	960	650	650	850
Oxygen Number	ASTM D2863	%	43	30	34	25	–	25