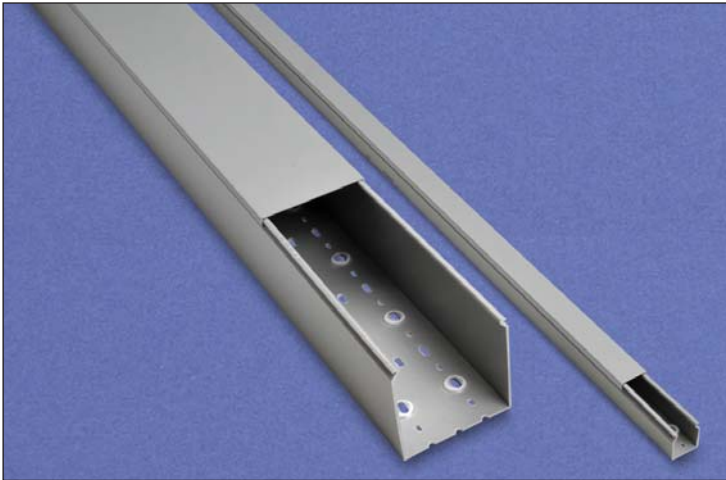


# Wiring Duct – TSH Series - Solid Wall



## Overview

With all the standard features of the T1 Series slotted wiring duct, TSH series solid wall wiring duct is made of rigid PVC and carries a UL 94V-0 flammability rating. It is supplied complete with cover, and replacement covers can be purchased separately.

## Features

- Standard mounting holes
- Non-slip cover
- Flush cover design holds 10 to 12 percent more wires than traditional designs
- Patented recessed boss for rapid mounting of components

UL file E123572



TSH Series Gray Solid Rigid PVC (including cover)					
Catalog Number Standard Carton	Package Quantity	Price	Catalog Number Single Piece Pkg	Package Quantity	Price
TSH-0506G	20	<--->	TSH-0506G-1	1	<--->
TSH-1010G	18	<--->	TSH-1010G-1	1	<--->
TSH-1015G	18	<--->	TSH-1015G-1	1	<--->
TSH-1515G	20	<--->	TSH-1515G-1	1	<--->
TSH-2222G	12	<--->	TSH-2222G-1	1	<--->
TSH-2230G	12	<--->	TSH-2230G-1	1	<--->
TSH-3030G	12	<--->	TSH-3030G-1	1	<--->
TSH-4040G	4	<--->	TSH-4040G-1	1	<--->

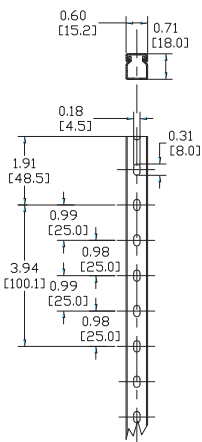
Note: All TSH duct comes in 6.56 feet (2m) lengths.

TSH Series Solid Rigid PVC Duct Dimensions		
Nominal Size (WxH) inches (mm)	Catalog Part Number	Actual Size (WxH) inches (mm)
0.5 x 0.625 (15 x 18)	TSH-0506G	0.60 x 0.71 (15 x 18)
1.00 x 1.00 (25.4 x 25.4)	TSH-1010G	1.00 x 1.18 (25 x 30)
1.00 x 1.50 (25.4 x 38.1)	TSH-1015G	1.00 x 1.57 (25 x 40)
1.50 x 1.50 (38.1 x 38.1)	TSH-1515G	1.57 x 1.57 (40 x 40)
2.25 x 2.25 (57.15 x 57.15)	TSH-2222G	2.36 x 2.36 (60 x 60)
2.25 x 3.00 (57.15 x 76.2)	TSH-2230G	2.36 x 3.15 (60 x 80)
3.00 x 3.00 (76.2 x 76.2)	TSH-3030G	3.15 x 3.15 (80 x 80)
4.00 x 4.00 (101.6 x 101.6)	TSH-4040G	3.94 x 3.94 (100 x 100)

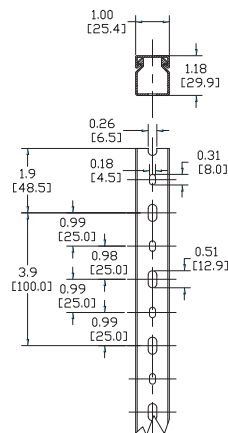
Package: add "-1" for single piece package

## Dimensions

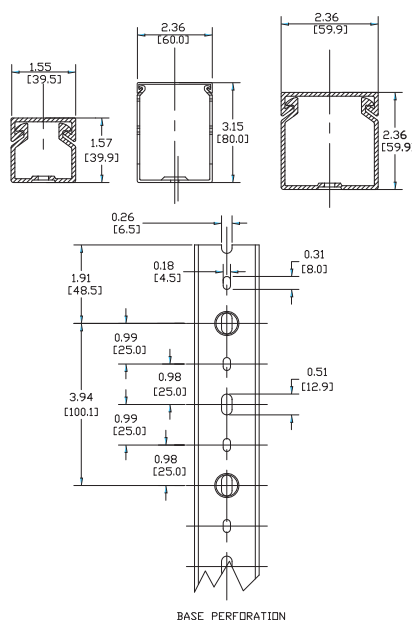
### TSH-0506



### TSH-1010

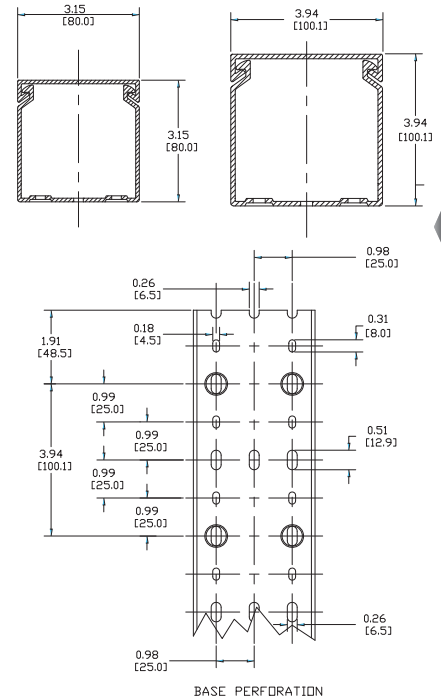


### TSH-15\*\* and TSH-22\*\*



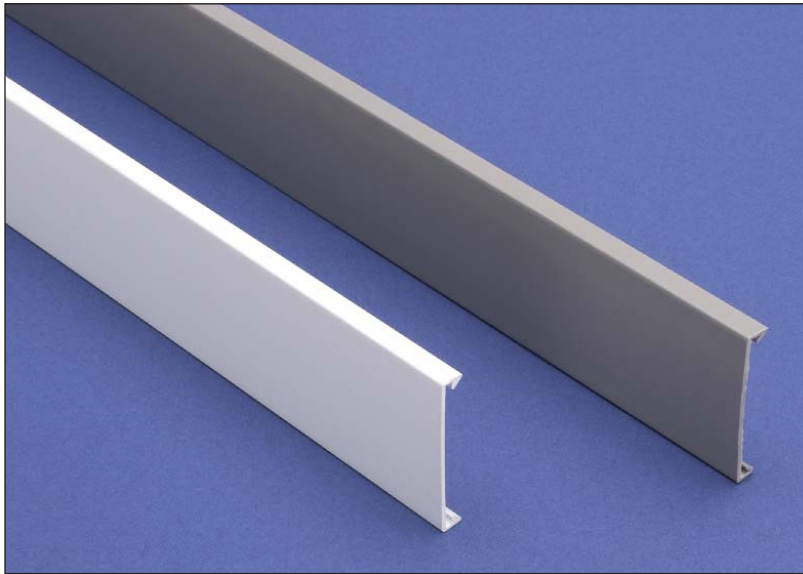
BASE PERFORATION

### TSH-30\*\* and TSH-40\*\*



BASE PERFORATION

# Wiring Duct Cover



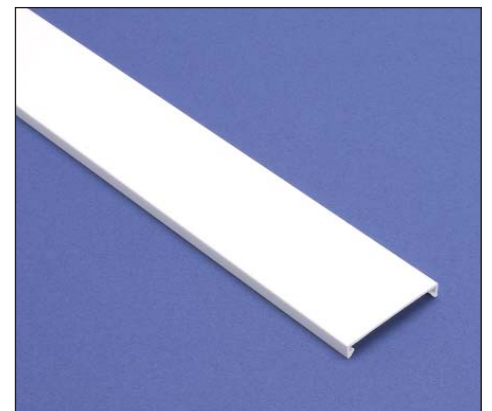
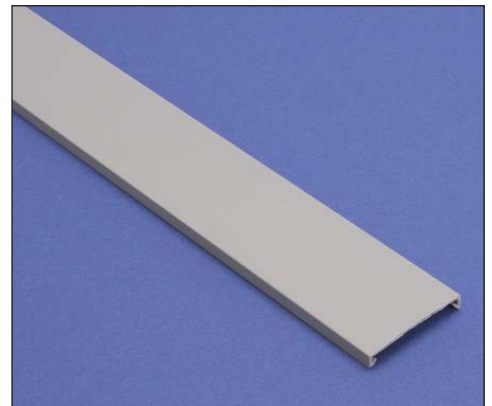
## Duct Cover

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

UL file E123572    

Duct Cover Specifications					
Part Number	Price	Description	Color	Standard Carton	
				Pcs/Pkg	Actual Total Length ft (m)
<b>COV-05G</b>	<--->	Cover for 0.5" wide duct	Gray	25	164 (50)
<b>COV-05G-1</b>	<--->	Cover for 0.5" wide duct	Gray	1	6.56 (2)
<b>COV-10G</b>	<--->	Cover for 1.0" wide duct	Gray	25	164 (50)
<b>COV-10G-1</b>	<--->	Cover for 1.0" wide duct	Gray	1	6.56 (2)
<b>COV-10W</b>	<--->	Cover for 1.0" wide duct	White	25	164 (50)
<b>COV-10W-1</b>	<--->	Cover for 1.0" wide duct	White	1	6.56 (2)
<b>COV-15G</b>	<--->	Cover for 1.5" wide duct	Gray	25	164 (50)
<b>COV-15G-1</b>	<--->	Cover for 1.5" wide duct	Gray	1	6.56 (2)
<b>COV-15W</b>	<--->	Cover for 1.5" wide duct	White	25	164 (50)
<b>COV-15W-1</b>	<--->	Cover for 1.5" wide duct	White	1	6.56 (2)
<b>COV-22G</b>	<--->	Cover for 2.25" wide duct	Gray	25	164 (50)
<b>COV-22G-1</b>	<--->	Cover for 2.25" wide duct	Gray	1	6.56 (2)
<b>COV-22W</b>	<--->	Cover for 2.25" wide duct	White	25	164 (50)
<b>COV-22W-1</b>	<--->	Cover for 2.25" wide duct	White	1	6.56 (2)
<b>COV-30G</b>	<--->	Cover for 3.0" wide duct	Gray	25	164 (50)
<b>COV-30G-1</b>	<--->	Cover for 3.0" wide duct	Gray	1	6.56 (2)
<b>COV-30W</b>	<--->	Cover for 3.0" wide duct	White	25	164 (50)
<b>COV-30W-1</b>	<--->	Cover for 3.0" wide duct	White	1	6.56 (2)
<b>COV-40G</b>	<--->	Cover for 4.0" wide duct	Gray	20	131.2 (40)
<b>COV-40G-1</b>	<--->	Cover for 4.0" wide duct	Gray	1	6.56 (2)
<b>COV-40W</b>	<--->	Cover for 4.0" wide duct	White	20	131.2 (40)
<b>COV-40W-1</b>	<--->	Cover for 4.0" wide duct	White	1	6.56 (2)
<b>COV-60G</b>	<--->	Cover for 6.0" wide duct	Gray	20	131.2 (40)
<b>COV-60G-1</b>	<--->	Cover for 6.0" wide duct	Gray	1	6.56 (2)
<b>COV-60W</b>	<--->	Cover for 6.0" wide duct	White	20	131.2 (40)
<b>COV-60W-1</b>	<--->	Cover for 6.0" wide duct	White	1	6.56 (2)

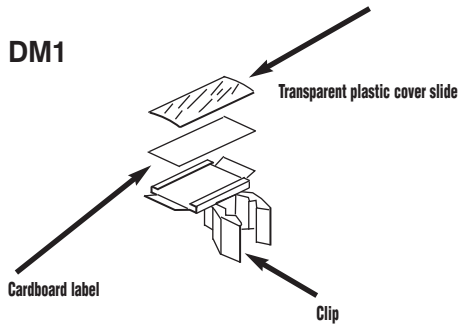
Note: Standard length of covers is 6.56 feet (2m) to fit T1, T1E and TSH duct.



# Wiring Duct – Accessories

Duct Marking Tags			
Part Number	Price	Description	Pcs/Pkg
DM1	<--->	Single-width white cardboard identification label for wiring duct. Supplied with black plastic mounting clip and transparent plastic cover slide	50

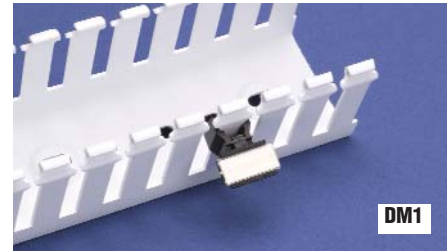
Note: DM1 marking tags can only be used with T1 series wire duct.



## Identification Tags

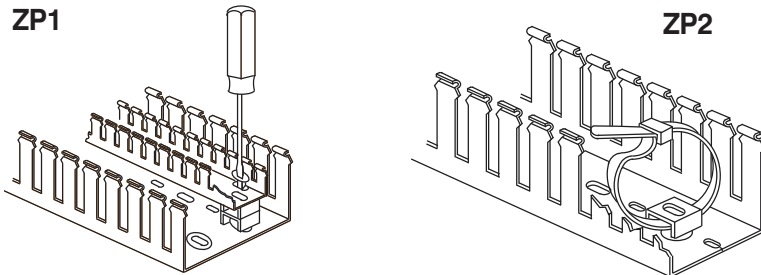
Allowing easy identification of control gear and switchgear, these tags are mounted by snapping the clip onto the sidewall finger segments of the duct. No gluing - no drilling! After installation, they need not be removed during maintenance or any work which involves the removal of the covers.

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



## Mounting Devices

Part Number	Price	Description	Pcs/Pkg
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



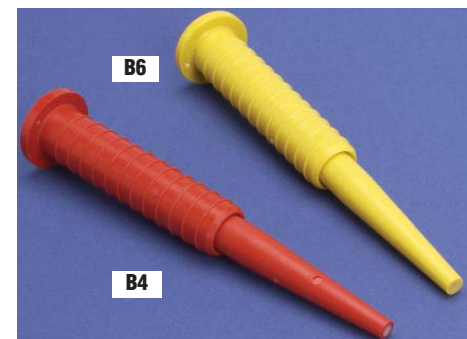
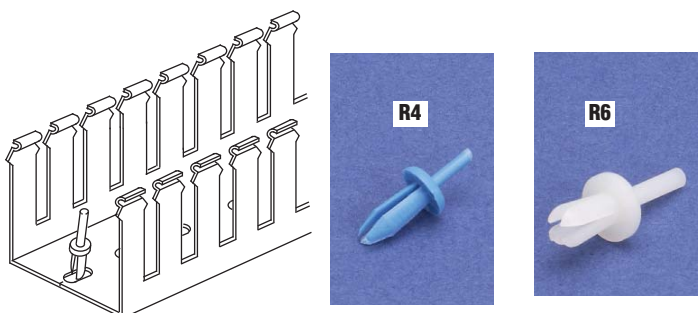
We carry mounts in two styles: ZP1 for mounting components and SEP-E separators inside duct, or for mounting small sizes of duct inside larger sizes (for separation of circuits with different functions); and ZP2, which is used with a cable tie to secure a wire bundle inside the duct.



## 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 Rivets and Rivet Tools			
Part Number	Price	Description	Pcs/Pkg
R4	<--->	Blue polyamide rivet used to install all types of wiring duct with standard 5/32" (4 mm) 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 7/32" (5.5 mm) mounting holes.	250
B6	<--->	Yellow polyamide rivet tool used to install R6 rivets.	1



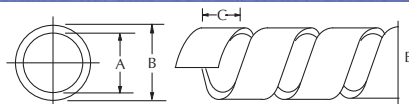
# Wiring Duct – Accessories



## Spiral Wrap

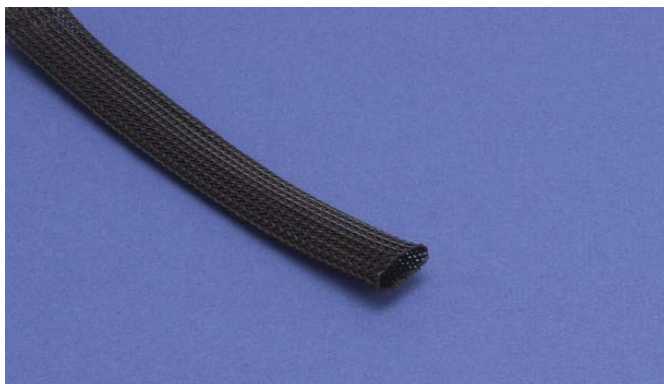
For neatly grouping wire bundles simply and economically, spiral wrap has no equal. Strong, yet easy to install, it protects the wire bundle, keeping it flexible though tightly contained. It is easily removed and reusable for temporary wiring.

## Dimensions



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

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

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

Expandable Sleeving				
Part Number	Price	Description	Color	Length
TY-5	<--->	Braided expandable polyester sleeving, 0.197"(5mm) nominal i.d., 0.157"(4mm) to 0.472"(12mm) nominal range	Black	325 ft./pack
TY-10	<--->	Braided expandable polyester sleeving, 0.375"(10mm) nominal i.d., 0.315"(8mm) to 0.866"(22mm) nominal range	Black	325 ft./pack
TY-20	<--->	Braided expandable polyester sleeving, 0.750"(20mm) nominal i.d., 0.630"(16mm) to 1.378"(35mm) nominal range	Black	164 ft./pack
TY-30	<--->	Braided expandable polyester sleeving, 1.125"(30mm) nominal i.d., 0.984"(25mm) to 1.890"(48mm) nominal range	Black	164 ft./pack
TY-50	<--->	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								
<b>Chemical/Physical Properties</b>								
<b>Specific Gravity</b>	ASTM D792	g/cm <sup>3</sup>	1.55	1.01	1.32	1.14	0.92	0.97
<b>H<sub>2</sub>O 73.4°F Absorption</b>	ISO 62	%	<0.1	0.02	<0.1	2.5	<0.1	<0.1
<b>Formaldehyde</b>	–	ppm	absent	absent	absent	absent	absent	absent
<b>Cadmium</b>	–	ppm	absent	absent	absent	absent	absent	absent
<b>Mechanical Properties</b>								
<b>Tensile Stress at Break</b>	ASTM D638	MPa	39	28	30	45	17	15
<b>Traction Strength</b>	ASTM D638	MPa	44	27	27	55	9.5	9
<b>Elongation at Break</b>	ASTM D638	%	130	200	97	250	400	600
<b>Modulus of Elasticity at Traction</b>	ASTM D638	MPa	4400	n/a	–	950	–	240
<b>Modulus of Elasticity at Flexion</b>	ASTM D790	MPa	3200	2100	–	1100	210	130
<b>Thermal Properties</b>								
<b>Temperature VICAT</b>	ASTM D1525	°C	84	95	70	198	89	–
<b>HDT</b>	ASTM D648	°C	72	60	60	185	–	–
<b>Coefficient of Expansion</b>	ASTM D696	K <sup>-1</sup>	6 10 <sup>-5</sup>	10 <sup>-5</sup>	8 10 <sup>-5</sup>	8-10 10 <sup>-5</sup>	22 10 <sup>-5</sup>	10 <sup>-5</sup>
<b>Specific Heat</b>	ASTM C351	kJ/kgK	0.94	n/a	1.24	1.7	–	–
<b>Thermal Conductivity</b>	ASTM C177	W/mK	0.14	0.21	0.14	0.29	0.32	0.32
<b>Electrical Properties</b>								
<b>Dielectric Constant</b>	ASTM D150	–	3.2 - 4.0	2.5	3.2	5.0	2.4	2.3
<b>Dielectric Strength</b>	IEC 243	kV/mm	70	25	60	35	90	90
<b>Surface Resistance</b>	IEC 93	Ω	10 <sup>13</sup>	10 <sup>13</sup>	10 <sup>13</sup>	5 10 <sup>11</sup>	10 <sup>13</sup>	10 <sup>13</sup>
<b>Self-Extinguishing</b>								
<b>Self-Extinguishing UL 94 1.6 mm</b>	UL 94	–	V-0	V-0	V-0	V-2	HB	V-2
<b>Self-Extinguishing UL 94 3.2 mm</b>	UL 94	–	V-0	V-0	V-0	V-2	HB	V-2
<b>Hot Wire Test (2 mm)</b>	IEC 695-2-1	°C	960	960	960	650	650	850
<b>Oxygen Number</b>	ASTM D2863	%	43	30	34	25	–	25