

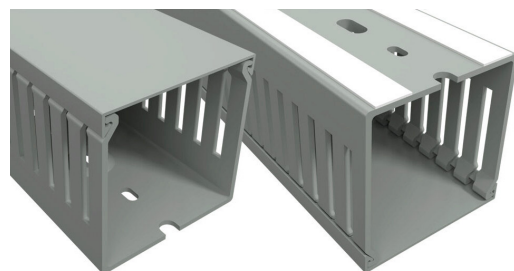


# IBOCO® Wire Duct – Slotted

## Rigid PVC - Open Slot - Narrow Finger Wall Self-Adhesive -T1E Series

### Overview

The T1E series of narrow-finger wire duct is made of rigid PVC that carries a UL 94V-0 flammability rating. Foam adhesive on duct provides a means of temporary positioning before fasteners are installed. Our wire duct comes in 6.56 ft [2m] lengths, complete with cover. Replacement duct covers can be purchased separately.



### Features

- Standard mounting holes
- Narrow finger design for compact wiring configurations
- Rounded, burr-free edges will not cut installers' hands or wiring insulation
- Non-slip cover included
- Flush cover design holds 10–12% more wires than traditional designs
- Restricted slot design retains wires in slot for fast, easy wire installation or removal
- Temperature range -15 to 50°C [5 to 122°F]
- Available in 6.56 ft [2m] length
- Adhesive decreases installation time by holding position while the installer secures the wiring duct with fasteners or rivets
- Foam adhesive also provides a means to reposition the wiring duct for precision and optimize final placement
- Two predetermined break lines, one for breaking off and removing the sidewall finger segments only, and another for removing the sidewall finger and base segments
- Recess bosses in the base allow rapid mounting of wire retainers (CL series), inserts (ZP2) and separators (SEP series) inside the wire duct.
- Duct base perforation according to DIN 43659 and DIN VDE 0660 TEIL 506

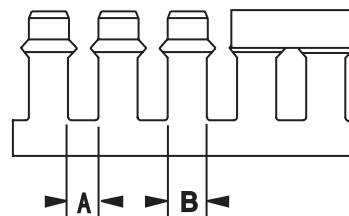
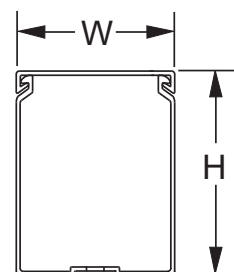
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Gray Rigid PVC - Open Slot - Narrow Finger Wall Self-Adhesive - T1E Series							
Part Number	Qty	Price	Actual Size (WxH) inches [mm]	Dimension A inches [mm]	Dimension B inches [mm]	Length ft [m]	Drawing Link
<a href="#">T1E-1022GA-1</a>	1	\$26.00	1.00 x 2.36 [25 x 60]	0.16 [4.06]	0.24 [6.10]	6.56 [2]	<a href="#">PDF</a>
<a href="#">T1E-1030GA-1</a>	1	\$33.00	1.00 x 3.15 [25 x 80]				<a href="#">PDF</a>
<a href="#">T1E-1522GA-1</a>	1	\$29.00	1.57 x 2.36 [40 x 60]				<a href="#">PDF</a>
<a href="#">T1E-1530GA-1</a>	1	\$35.00	1.57 x 3.15 [40 x 80]				<a href="#">PDF</a>
<a href="#">T1E-2222GA-1</a>	1	\$31.00	2.36 x 2.36 [60 x 60]				<a href="#">PDF</a>
<a href="#">T1E-2230GA-1</a>	1	\$38.00	2.36 x 3.15 [60 x 80]				<a href="#">PDF</a>
<a href="#">T1E-2240GA-1</a>	1	\$43.00	2.36 x 3.94 [60 x 100]				<a href="#">PDF</a>
<a href="#">T1E-3030GA-1</a>	1	\$46.00	3.15 x 3.15 [80 x 80]				<a href="#">PDF</a>
<a href="#">T1E-4040GA-1</a>	1	\$61.00	3.94 x 3.94 [100 x 100]				<a href="#">PDF</a>

Cover included.

### Dimensions



Adhesive-Backed Tape Specifications		
Material	Carrier	Crosslinked polyethylene
	Adhesive	Rubber based
	Release Liner	Silicone coated paper
Applicable Mounting Surfaces		Paper, cardboard, wood, glass, ceramics, metal, rubber, and many plastics
Application Temperature		65 to 100°F [18 to 38°C]
Service Temperature		-20 to 150°F [-28 to 65°C]
Thickness		0.031 in [0.787 mm]
Foam	Density (typical)	4.5-5.5 lb/ft³
	Test Method	ASTM D3575
Adhesive	180° Peel Adhesion	8.0 lb/in minimum (typical)
	Test Method	PSTC-101

Note: Make sure the surface is perfectly clean and dry before applying self-adhesive wire duct.

[www.automationdirect.com](http://www.automationdirect.com)

Wiring Solutions

tWIR-6


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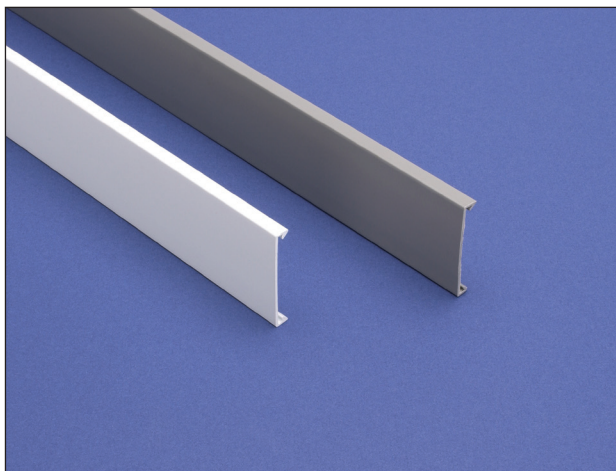
# Wire Duct Wire Fill Capacity

## Wire Fill Capacity

T1, T1E, TSH Series Wire Fill Capacity						
Nominal Duct Size (inches)	Wire Gauge					
	12AWG	14AWG	16AWG	18AWG	22AWG	
	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 Wire 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



# IBOCO® Wire Duct – Covers



## 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.

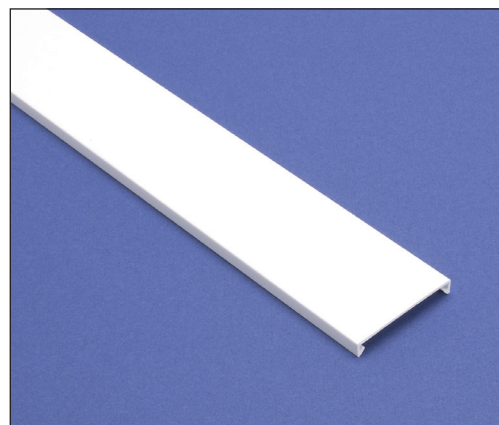
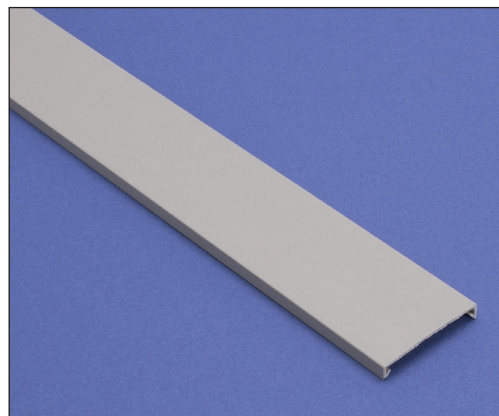
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### Duct Cover Specifications

Part Number	Price	Description	Color	Qty	Actual Total Length ft [m]
<a href="#"><u>COV-05G-1</u></a>	\$5.00	Cover for 0.5" wide duct	Gray	1	6.56 [2]
<a href="#"><u>COV-10G-1</u></a>	\$5.00	Cover for 1.0" wide duct	Gray	1	
<a href="#"><u>COV-10W-1</u></a>	\$5.00	Cover for 1.0" wide duct	White	1	
<a href="#"><u>COV-15G-1</u></a>	\$6.50	Cover for 1.5" wide duct	Gray	1	
<a href="#"><u>COV-15W-1</u></a>	\$6.50	Cover for 1.5" wide duct	White	1	
<a href="#"><u>COV-22G-1</u></a>	\$8.25	Cover for 2.25" wide duct	Gray	1	
<a href="#"><u>COV-22W-1</u></a>	\$8.25	Cover for 2.25" wide duct	White	1	
<a href="#"><u>COV-30G-1</u></a>	\$12.00	Cover for 3.0" wide duct	Gray	1	
<a href="#"><u>COV-30W-1</u></a>	\$12.00	Cover for 3.0" wide duct	White	1	
<a href="#"><u>COV-40G-1</u></a>	\$14.50	Cover for 4.0" wide duct	Gray	1	
<a href="#"><u>COV-40W-1</u></a>	\$14.50	Cover for 4.0" wide duct	White	1	
<a href="#"><u>COV-60G-1</u></a>	\$28.00	Cover for 6.0" wide duct	Gray	1	
<a href="#"><u>COV-60W-1</u></a>	\$28.00	Cover for 6.0" wide duct	White	1	

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

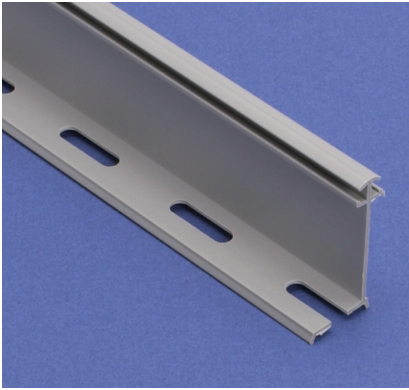



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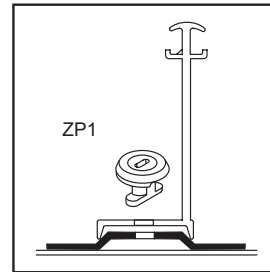
# Wire Duct – Accessories

## 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.



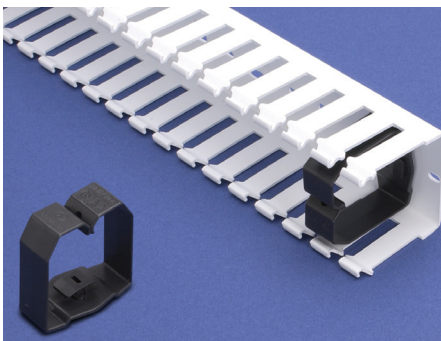
Duct Separators						
Part Number	Price	Description	Color	Qty	Length ft [m]	Drawing Link
<a href="#"><u>SEP-15E-1</u></a>	\$8.25	Separator for 1.5" high duct	Gray	1	6.56 [2]	<a href="#"><u>PDF</u></a>
<a href="#"><u>SEP-22E-1</u></a>	\$11.00	Separator for 2.25" high duct	Gray	1		<a href="#"><u>PDF</u></a>
<a href="#"><u>SEP-30E-1</u></a>	\$12.00	Separator for 3.0" high duct	Gray	1		<a href="#"><u>PDF</u></a>



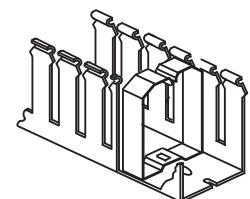
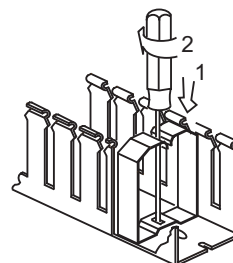
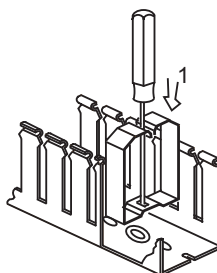
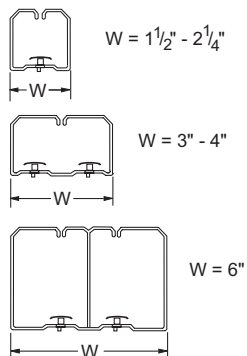
**SEP-E Mounting Detail**  
Order **ZP1** mount separately

## Wire Retainers

For holding wires during wiring operations, these retainers are essential. They allow easy access to the interior of the wire 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
<a href="#"><u>CL-1515</u></a>	\$69.00	Wire retainer fastener for 1.5 x 1.5" duct	Black	40
<a href="#"><u>CL-1522</u></a>	\$73.00	Wire retainer fastener for 1.5 x 2.25" duct		40
<a href="#"><u>CL-1530</u></a>	\$42.00	Wire retainer fastener for 1.5 x 3.0" duct		20
<a href="#"><u>CL-2215</u></a>	\$80.00	Wire retainer fastener for 2.25 x 1.5" duct		40
<a href="#"><u>CL-2222</u></a>	\$45.00	Wire retainer fastener for 2.25 x 2.25" duct		20
<a href="#"><u>CL-2230</u></a>	\$46.00	Wire retainer fastener for 2.25 x 3.0" duct		20
<a href="#"><u>CL-2240</u></a>	\$51.00	Wire retainer fastener for 2.25 x 4.0" duct		20
<a href="#"><u>CL-3022</u></a>	\$28.00	Wire retainer fastener for 3.0 x 2.25" duct		10
<a href="#"><u>CL-3030</u></a>	\$31.50	Wire retainer fastener for 3.0 x 3.0" duct		10
<a href="#"><u>CL-3040</u></a>	\$31.50	Wire retainer fastener for 3.0 x 4.0" duct		10
<a href="#"><u>CL-4022</u></a>	\$35.00	Wire retainer fastener for 4.0 x 2.25" duct		10
<a href="#"><u>CL-4030</u></a>	\$31.50	Wire retainer fastener for 4.0 x 3.0" duct		10
<a href="#"><u>CL-4040</u></a>	\$21.50	Wire retainer fastener for 4.0 x 4.0" duct		5
<a href="#"><u>CL-6040</u></a>	\$26.50	Wire retainer fastener for 6.0 x 4.0" duct		5





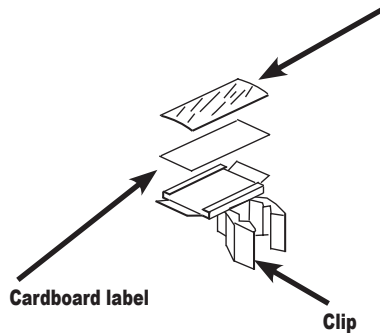

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# Wire Duct – Accessories

## Duct Marking Tags

Part Number	Price	Description	Qty
<b>DM1</b>	\$31.00	Single-width white cardboard identification label for wire duct. Supplied with black plastic mounting clip and transparent plastic cover slide	50

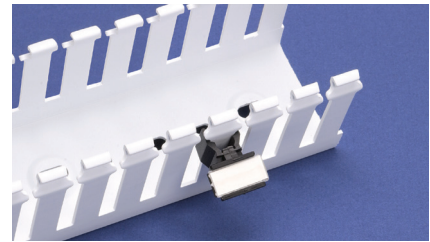
Note: **DM1** marking tags can only be used with T1 series wire duct.



## Identification Tags

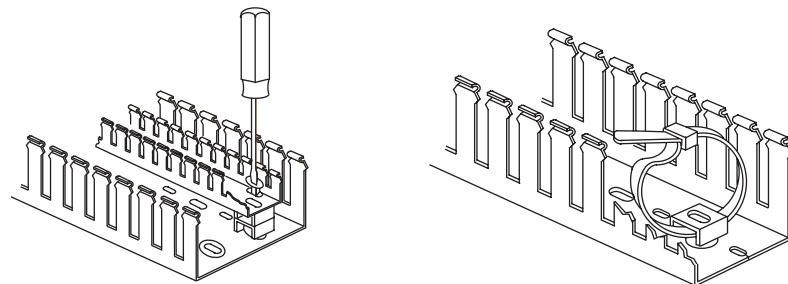
Allowing easy identification of control gear and switchgear, these tags are mounted by snapping the clip onto the sidewall finger segments of the duct. No gluing - no drilling! After installation, they need not be removed during maintenance or any work which involves the removal of the covers.

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



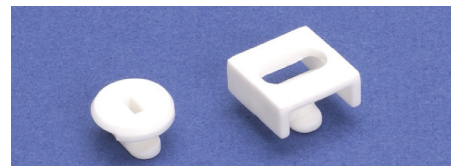
## Mounting Devices

Part Number	Price	Description	Qty
<b>ZP1</b>	\$16.50	Round, white polyamide 'button' used to mount components and separators inside duct.	100
<b>ZP2</b>	\$20.00	Square white polyamide cable tie mount used to tighten a wire bundle inside duct.	50



## Mounting Inserts

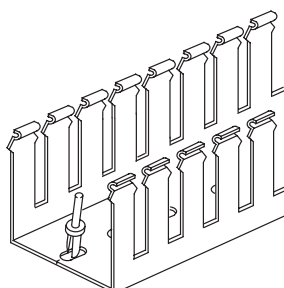
We carry mounts in two styles: ZP1 for mounting components and SEP-E separators inside duct, or for mounting small sizes of duct inside larger sizes (for separation of circuits with different functions); and ZP2, which is used with a cable tie to secure a wire bundle inside the duct.



## Wire Duct Rivets and Rivet Tools

Part Number	Price	Description	Qty
<b>R4*</b>	\$19.00	Blue polyamide rivet used to install all types of wire duct with standard 4.5 mm [0.17 in] mounting holes.	250
<b>B4</b>	\$50.00	Red polyamide rivet tool used to install R4 rivets.	1
<b>R6*</b>	\$22.00	Natural polyamide rivet used to install all types of wire duct with standard 6.5 mm [0.26 in] mounting holes.	250
<b>B6</b>	\$50.00	Yellow polyamide rivet tool used to install R6 rivets.	1

\* R4 drill hole size - 5/32" (4mm), R6 drill hole size - 7/32" [5.5 mm]  
When using with Flexible wire duct, only the R4 rivet will currently work.



## Rivets and Rivet Tools

Wire 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 wire duct with standard mounting holes.




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# Wire 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/cm³	1.55	1.01	1.32	1.14	0.92	0.97
H <sub>2</sub> 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 <sup>-1</sup>	6x10 <sup>-5</sup>	10 <sup>-5</sup>	8x10 <sup>-5</sup>	8-10x10 <sup>-5</sup>	22x10 <sup>-5</sup>	10 <sup>-5</sup>
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 <sup>13</sup>	10 <sup>13</sup>	10 <sup>13</sup>	5x10 <sup>11</sup>	10 <sup>13</sup>	10 <sup>13</sup>
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