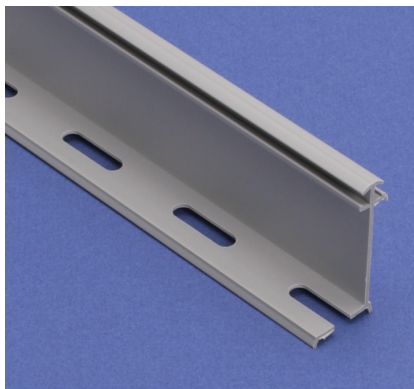


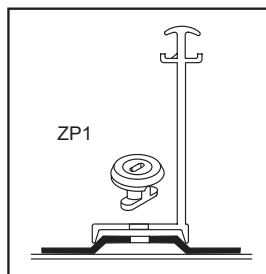
# IBOCO® Wire Duct – Accessories

## 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.



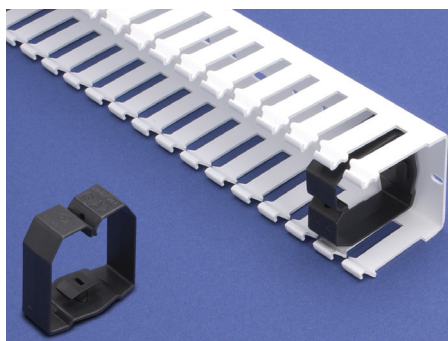
Duct Separators						
Part Number	Price	Description	Color	Qty	Length ft [m]	Drawing Link
<a href="#">SEP-15E-1</a>	\$8.25	Separator for 1.5" high duct	Gray	1	6.56 [2]	<a href="#">PDF</a>
<a href="#">SEP-22E-1</a>	\$11.00	Separator for 2.25" high duct	Gray	1		<a href="#">PDF</a>
<a href="#">SEP-30E-1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



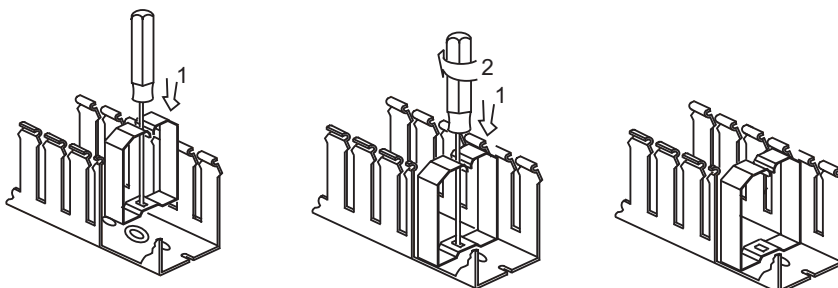
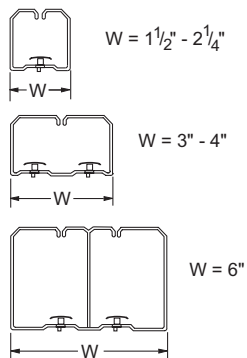
**SEP-E Mounting Detail**  
Order **ZP1** mount separately

## 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.



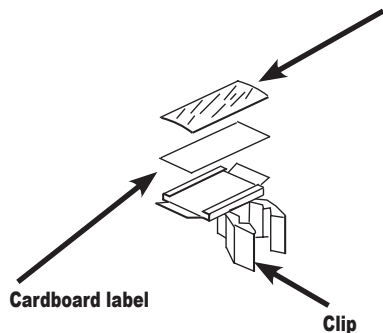
Wire Retainers				
Part Number	Price	Description	Color	Qty
<a href="#">CL-1515</a>	\$69.00	Wire retainer fastener for 1.5 x 1.5" duct	Black	40
<a href="#">CL-1522</a>	\$73.00	Wire retainer fastener for 1.5 x 2.25" duct		40
<a href="#">CL-1530</a>	\$42.00	Wire retainer fastener for 1.5 x 3.0" duct		20
<a href="#">CL-2215</a>	\$80.00	Wire retainer fastener for 2.25 x 1.5" duct		40
<a href="#">CL-2222</a>	\$45.00	Wire retainer fastener for 2.25 x 2.25" duct		20
<a href="#">CL-2230</a>	\$46.00	Wire retainer fastener for 2.25 x 3.0" duct		20
<a href="#">CL-2240</a>	\$51.00	Wire retainer fastener for 2.25 x 4.0" duct		20
<a href="#">CL-3022</a>	\$28.00	Wire retainer fastener for 3.0 x 2.25" duct		10
<a href="#">CL-3030</a>	\$31.50	Wire retainer fastener for 3.0 x 3.0" duct		10
<a href="#">CL-3040</a>	\$31.50	Wire retainer fastener for 3.0 x 4.0" duct		10
<a href="#">CL-4022</a>	\$35.00	Wire retainer fastener for 4.0 x 2.25" duct		10
<a href="#">CL-4030</a>	\$31.50	Wire retainer fastener for 4.0 x 3.0" duct		10
<a href="#">CL-4040</a>	\$21.50	Wire retainer fastener for 4.0 x 4.0" duct		5
<a href="#">CL-6040</a>	\$26.50	Wire retainer fastener for 6.0 x 4.0" duct		5



# IBOCO® 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

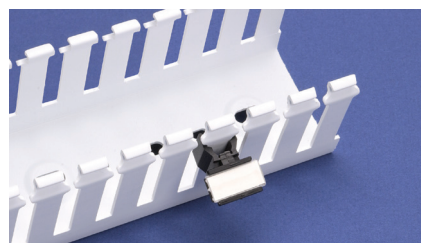
Note: **DM1** marking tags can only be used with T1 series wire duct.



## 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.

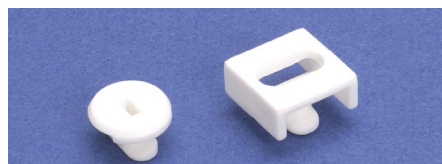
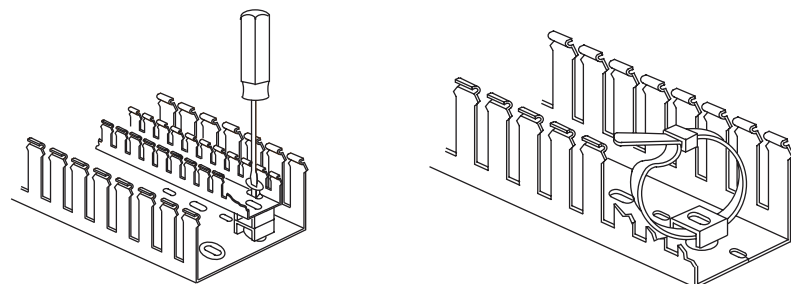
Note: Take care that clip is installed above the wires coming out to the sidewall slots.



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.

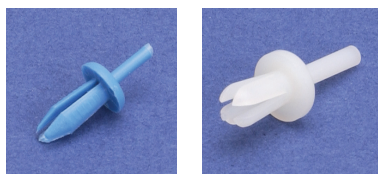
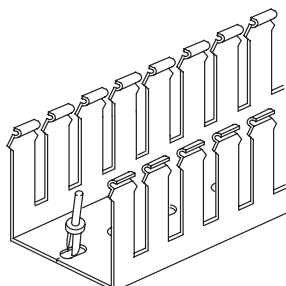


Wire Duct Rivets and Rivet Tools			
Part Number	Price	Description	Qty
<b>R4*</b>	\$19.00	Blue polyamide rivet used to install all types of wire duct with standard 4.5 mm [0.17 in] mounting holes.	250
<b>B4</b>	\$50.00	Red polyamide rivet tool used to install R4 rivets.	1
<b>R6*</b>	\$22.00	Natural polyamide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





# IBOCO® 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								
<b>Chemical/Physical Properties</b>								
Specific Gravity	ASTM D792	g/cm <sup>3</sup>	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
<b>Mechanical Properties</b>								
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
<b>Thermal Properties</b>								
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
<b>Electrical Properties</b>								
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>
<b>Self-Extinguishing</b>								
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