IBOCO® Wire Duct – Slotted

Rigid PVC - Open Slot - Wide Finger Wall
T1 Series

Overview

Rugged wire duct is made of rigid PVC that carries a UL 94V-0 flammability rating for your wire containment needs. Our wire duct comes in 6.56 ft [2m] or 3.28 ft [1m] 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 wiring insulation
- Non-slip cover included
- Flush cover design holds 10–12% more wires than traditional designs
- Restricted slot design for fast and easy wire installation/removals
- Temperature range -15 to 50˚C [5 to 122˚F]
- Available in 6.56 ft [2m] or 3.28 ft [1m] lengths

- 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
- Rivets R6 and R4 may be used to mount on panel
- 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
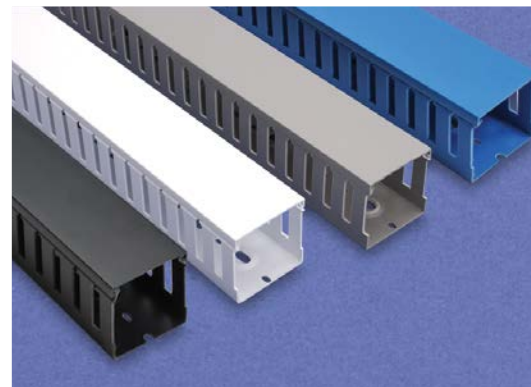
UL Recognized file # E123572

Gray Open Slot T1 Series				
Part Number	Qty	Length ft [m]	Price	Drawing Link
T1-0506G-1	1	6.56 [2]	$08v?:	PDF
T1-0510G-1	1	6.56 [2]	$08x0:	PDF
T1-1010G-1	1	6.56 [2]	$08x2:	PDF
T1-1015G-1	1	6.56 [2]	$08x4:	PDF
T1-1022G-1	1	6.56 [2]	$08x6:	PDF
T1-1022G1-1	1	3.28 [1]	$;-5,aj:	PDF
T1-1030G-1	1	6.56 [2]	$08x8:	PDF
T1-1030G1-1	1	3.28 [1]	$;5,ak:	PDF
T1-1040G-1	1	6.56 [2]	$08xa:	PDF
T1-1515G-1	1	6.56 [2]	$08xc:	PDF
T1-1522G-1	1	6.56 [2]	$08xe:	PDF
T1-1522G1-1	1	3.28 [1]	$;-5,al:	PDF
T1-1530G-1	1	6.56 [2]	$08xg:	PDF
T1-1530G1-1	1	3.28 [1]	$;5,an:	PDF
T1-1540G-1	1	6.56 [2]	$-08xi:	PDF
T1-2215G-1	1	6.56 [2]	$08xk:	PDF
T1-2222G-1	1	6.56 [2]	$08xn:	PDF
T1-2222G1-1	1	3.28 [1]	$;5,ao:	PDF

Cover included.

Gray Open Slot T1 Series				
Part Number	Qty	Length ft [m]	Price	Drawing Link
T1-2230G-1	1	6.56 [2]	$08xp:	PDF
T1-2230G1-1	1	3.28 [1]	$;5,ae:	PDF
T1-2240G-1	1	6.56 [2]	$08xs:	PDF
T1-2240G1-1	1	3.28 [1]	$;;5,af:	PDF
T1-3015G-1	1	6.56 [2]	$08xu:	PDF
T1-3022G-1	1	6.56 [2]	$08xx:	PDF
T1-3030G-1	1	6.56 [2]	$08xz:	PDF
T1-3030G1-1	1	3.28 [1]	$;5,ag:	PDF
T1-3040G-1	1	6.56 [2]	$;08x[:	PDF
T1-3050G-1	1	6.56 [2]	$08x#:	PDF
T1-4015G-1	1	6.56 [2]	$08x?:	PDF
T1-4022G-1	1	6.56 [2]	$08y0:	PDF
T1-4030G-1	1	6.56 [2]	$08y2:	PDF
T1-4040G-1	1	6.56 [2]	$08y4:	PDF
T1-4040G1-1	1	3.28 [1]	$;5,ah:	PDF
T1-4050G-1	1	6.56 [2]	$08y6:	PDF
T1-6040G-1	1	6.56 [2]	$08y8:	PDF

Cover included.

IBOCO® Wire Duct – Slotted

Rigid PVC - Open Slot - Wide Finger Wall
T1 Series (continued)

White Open Slot T1 Series

Part Number	Qty	Length ft [m]	Price	Drawing Link
T1-1010W-1	1		$;08o,:	PDF
T1-1015W-1	1		$08p1:	PDF
T1-1022W-1	1		$08p3:	PDF
T1-1030W-1	1		$08p5:	PDF
T1-1040W-1	1		$08p7:	PDF
T1-1515W-1	1		$08p9:	PDF
T1-1522W-1	1		$08pb:	PDF
T1-1530W-1	1		$08pd:	PDF
T1-1540W-1	1		$;08pf:	PDF
T1-2222W-1	1		$08ph:	PDF
T1-2230W-1	1	6.56 [2]	$-08pj:	PDF
T1-2240W-1	1		$-08pl:	PDF
T1-3022W-1	1		$08po:	PDF
T1-3030W-1	1		$08pq:	PDF
T1-3040W-1	1		$;08pt:	PDF
T1-3050W-1	1		$08pv:	PDF
T1-4022W-1	1		$08py:	PDF
T1-4030W-1	1		$;08p]:	PDF
T1-4040W-1	1		$08p_:	PDF
T1-4050W-1	1		$;08p!:	PDF
T1-6040W-1	1		$;08p,:	PDF

Cover included.

Blue* Open Slot T1 Series

Part Number	Qty	Length ft [m]	Price	Drawing Link
T1-1010B-1	1		$;08of:	PDF
T1-1022B-1	1		$08oh:	PDF
T1-1030B-1	1		$-08oj:	PDF
T1-1515B-1	1		$-08ol:	PDF
T1-1522B-1	1		$08oo:	PDF
T1-1530B-1	1	6.56 [2]	$08oq:	PDF
T1-2215B-1	1		$;08ot:	PDF
T1-2222B-1	1		$08ov:	PDF
T1-2230B-1	1		$08oy:	PDF
T1-3030B-1	1		$;08o]:	PDF
T1-4030B-1	1		$08o_:	PDF
T1-4040B-1	1		$;08o!:	PDF

Cover included.
*Intrinsic Blue color per ISA-RD12.6 (Instrument Society of America).

Black* Open Slot T1 Series

| Part Number	Qty	Length ft [m	Price	Drawing Link
T1-1040K-1	1		$;08n!:	PDF
T1-1530K-1	1		$;08n,:	PDF
T1-2222K-1	1		$08o1:	PDF
T1-2240K-1	1		$08o3:	PDF
T1-3030K-1	1	6.56 [2]	$08o5:	PDF
T1-3040K-1	1		$08o7:	PDF
T1-3050K-1	1		$08o9:	PDF
T1-4040K-1	1		$08ob:	PDF
T1-4050K-1	1		$08od:	PDF

Cover included.
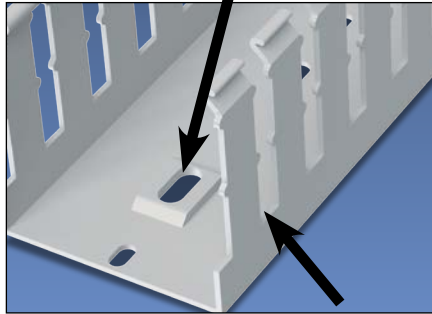*Black color typically used to compliment the look of historically black telecommunications racks and hardware.

IBOCO® Wire Duct – Slotted

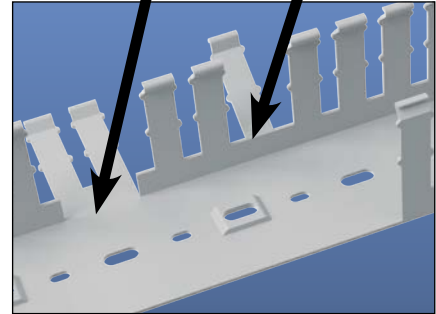**Restricted slot opening for wire retention**
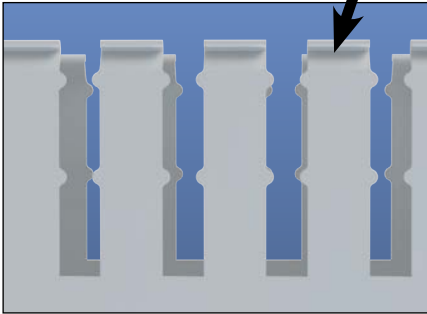
Recess boss for rapid mounting of components

Two predetermined breaklines

Burr-free edges

| Rigid PVC - Open Slot - Wide Finger Wall - T1 Series Dimensions			
Part Number	Actual Size (WxH) inches [mm]	Dimension A inches [mm]	Dimension B inches [mm]
T1-0506*	0.60 x 0.70 [15 x 18]	0.20 [5.08]	0.30 [7.62]
T1-0510*	0.60 x 1.18 [15 x 30]		
T1-1010*	1.00 x 1.18 [25 x 30]		
T1-1015*	1.00 x 1.57 [25 x 40]	0.31 [7.87]	0.47 [11.94]
T1-1022*	1.00 x 2.36 [25 x 60]		
T1-1030*	1.00 x 3.15 [25 x 80]		
T1-1040*	1.00 x 3.94 [25 x 100]		
T1-1515*	1.57 x 1.57 [40 x 40]		
T1-1522*	1.57 x 2.36 [40 x 60]		
T1-1530*	1.57 x 3.15 [40 x 80]		
T1-1540*	1.57 x 3.94 [40 x 00]		
T1-2215*	2.36 x 1.57 [60 x 40]		
T1-2222*	2.36 x 2.36 [60 x 60]		
T1-2230*	2.36 x 3.15 [60 x 80]		
T1-2240*	2.36 x 3.94 [60 x 100]		
T1-3015*	3.15 x 1.57 [80 x 40]		
T1-3022*	3.15 x 2.36 [80 x 60]		
T1-3030*	3.15 x 3.15 [80 x 80]		
T1-3040*	3.15 x 3.94 [80 x 100]		
T1-3050*	3.15 x 4.92 [75 x 125]		
T1-4015*	3.94 x 1.57 [100 x 40]		
T1-4022*	3.94 x 2.36 [100 x 60]		
T1-4030*	3.94 x 3.15 [100 x 80]		
T1-4040*	3.94 x 3.94 [100 x 100]		
T1-4050*	3.94 x 4.92 [100 x 125]		
T1-6040*	5.91 x 3.94 [150 x 100]		

Dimensions

Note: Accessory bosses not present on 0.5 and 1.0 inch width duct.
*Color: *add suffix "G" for Light Gray, *add suffix "W" for White, *add suffix "B" for Blue, *add suffix "K" for Black
See previous pages for complete part numbers
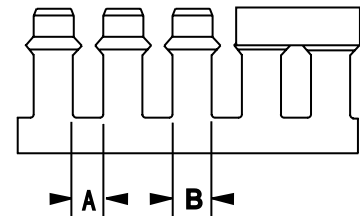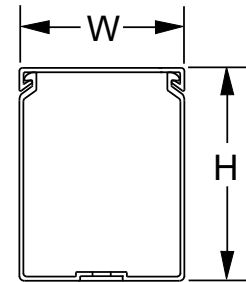
# IBOCO® Wire Duct Wire Fill Capacity

Wire Fill Capacity

T1, T1E, TSH Series Wire Fill Capacity					
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**
Nominal Duct Size (inches) / **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
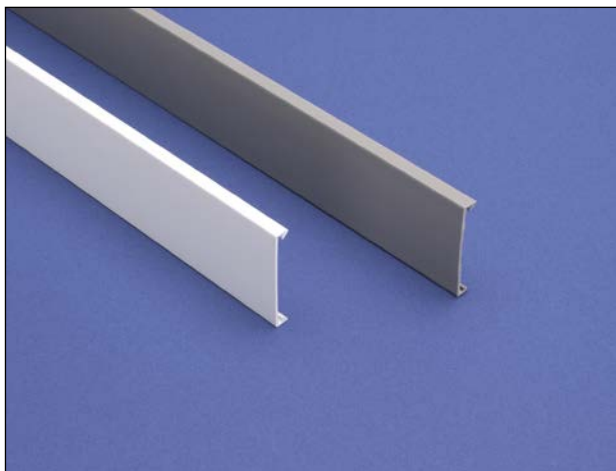
Duct Cover

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

UL Recognized file # E123572

Duct Cover Specifications					
Part Number	**Price**	**Description**	**Color**	**Qty**	**Actual Total Length ft [m]**
COV-05G-1	$8no:	Cover for 0.5" wide duct	Gray	1	
COV-10G-1	$8nq:	Cover for 1.0" wide duct	Gray	1	
COV-10W-1	$-8le:	Cover for 1.0" wide duct	White	1	
COV-15G-1	$;8nt:	Cover for 1.5" wide duct	Gray	1	
COV-15W-1	$-8lg:	Cover for 1.5" wide duct	White	1	
COV-22G-1	$8nv:	Cover for 2.25" wide duct	Gray	1	
COV-22W-1	$--8li:	Cover for 2.25" wide duct	White	1	6.56 [2]
COV-30G-1	$08ny:	Cover for 3.0" wide duct	Gray	1	
COV-30W-1	$-08lk:	Cover for 3.0" wide duct	White	1	
COV-40G-1	$;08n]:	Cover for 4.0" wide duct	Gray	1	
COV-40W-1	$-08ln:	Cover for 4.0" wide duct	White	1	
COV-60G-1	$08n_:	Cover for 6.0" wide duct	Gray	1	
COV-60W-1	$-08lp:	Cover for 6.0" wide duct	White	1	

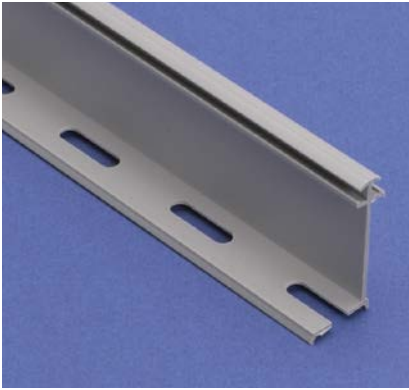**Note: Standard length of covers is 6.56 feet [2m] to fit T1, T1E, and TSH duct.**
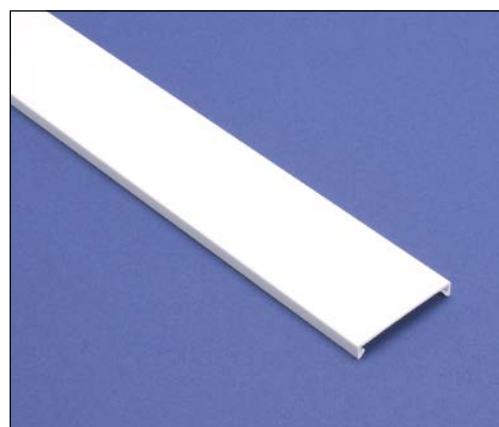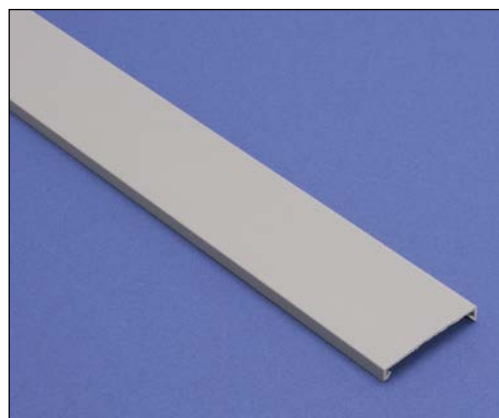
IBOCO® Wire Duct – Accessories

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
SEP-15E-1	$5se:	Separator for 1.5" high duct	Gray	1		PDF
SEP-22E-1	$05sg:	Separator for 2.25" high duct	Gray	1	6.56 [2]	PDF
SEP-30E-1	$-05si:	Separator for 3.0" high duct	Gray	1		PDF

ZP1
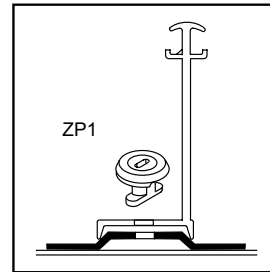
SEP-E Mounting Detail
Order ZP1 mount separately

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.
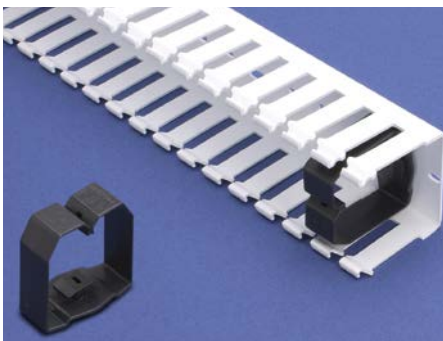
Wire Retainers				
Part Number	Price	Description	Color	Qty
CL-1515	$05u9:	Wire retainer fastener for 1.5 x 1.5" duct		40
CL-1522	$05ua:	Wire retainer fastener for 1.5 x 2.25" duct		40
CL-1530	$05ub:	Wire retainer fastener for 1.5 x 3.0" duct		20
CL-2215	$05uc:	Wire retainer fastener for 2.25 x 1.5" duct		40
CL-2222	$05ud:	Wire retainer fastener for 2.25 x 2.25" duct		20
CL-2230	$05ue:	Wire retainer fastener for 2.25 x 3.0" duct		20
CL-2240	$;05uf:	Wire retainer fastener for 2.25 x 4.0" duct	Black	20
CL-3022	$05ug:	Wire retainer fastener for 3.0 x 2.25" duct		10
CL-3030	$05uh:	Wire retainer fastener for 3.0 x 3.0" duct		10
CL-3040	$-05ui:	Wire retainer fastener for 3.0 x 4.0" duct		10
CL-4022	$05uk:	Wire retainer fastener for 4.0 x 2.25" duct		10
CL-4030	$-05ul:	Wire retainer fastener for 4.0 x 3.0" duct		10
CL-4040	$05un:	Wire retainer fastener for 4.0 x 4.0" duct		5
CL-6040	$05uo:	Wire retainer fastener for 6.0 x 4.0" duct		5

W = 1½" - 2¼"

W = 3" - 4"

W = 6"
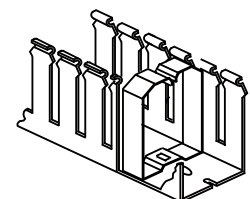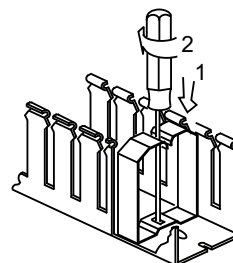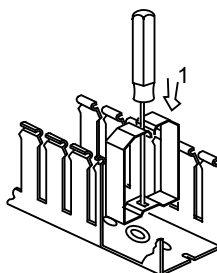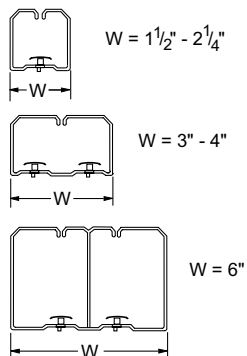
IBOCO® Wire Duct – Accessories

Duct Marking Tags

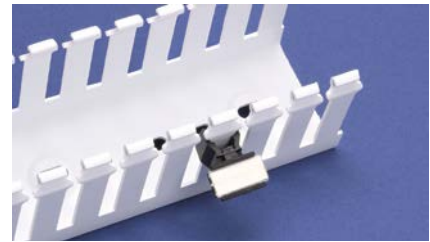| Part Number	Price	Description	Qty
DM1	$;0ecf:	Single-width white cardboard identification label for wire duct. Supplied with black plastic mounting clip and transparent plastic cover slide	50

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

Cardboard label

Clip

Mounting Devices

Part Number	Price	Description	Qty
ZP1	$;06pf:	Round, white polyamide 'button' used to mount components and separators inside duct.	100
ZP2	$;04[_:	Square white polyamide cable tie mount used to tighten a wire bundle inside duct.	50

Wire Duct Rivets and Rivet Tools

Part Number	Price	Description	Qty
R4*	$0ek9:	Blue polyamide rivet used to install all types of wire duct with standard 4.5 mm [0.17 in] mounting holes.	250
B4	$;04,v:	Red polyamide rivet tool used to install R4 rivets.	1
R6*	$0eka:	Natural polyamide rivet used to install all types of wire duct with standard 6.5 mm [0.26 in] mounting holes.	250
B6	$;04,x:	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.
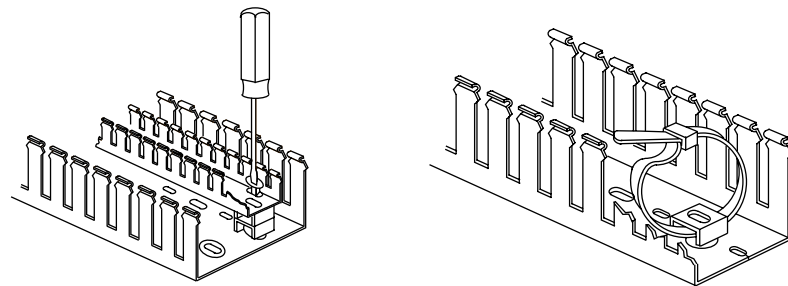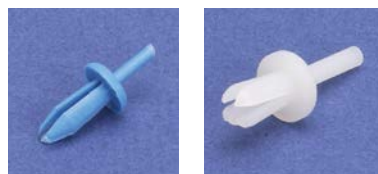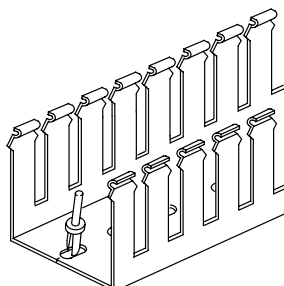
Identification Tags

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 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.

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 / **Technical Characteristics**	**Test Standard**	**Unit of Measure**	**Rigid PVC**	**Polypropylene**	**PVC Molded Components**	**Polyamide 6**	**Polyethylene**	**Flame Retardant Polyethylene**
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}	6x10^{-5}	10^{-5}	8x10^{-5}	8-10x10^{-5}	22x10^{-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}	5x10^{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