

A.
System
Overview

Panduit® Type FL Flexible Wiring Duct

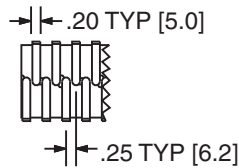
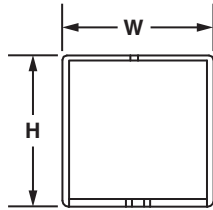
- Material: Flexible Polypropylene
- UL 94 flammability rating of V-2
- UL Recognized continuous use temperature: 149°F (65°C)
- Factory applied adhesive tape provided for easy mounting



Part Number	Duct Size (W x H)*		Length		Std. Pkg. Qty.
	In.	mm	In.	mm	
FL12X12LG-A	.49 x .49	12.5 x 12.5	19.7	500	112
FL25X25LG-A	.98 x .98	25.0 x 25.0	19.7	500	70
FL50X50LG-A	1.97 x 1.97	50.0 x 50.0	19.7	500	32

Available in LG (RAL 7040 Light Gray) color only. Unit of measure is pieces.

**"H" dimension includes duct and cover.



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Raceway

C3.
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Panduit® Divider Wall

- Wiring duct divider wall can be mounted inside any type of Panduit PVC wiring duct to create multiple channels
- Simply install the divider wall base when mounting the duct and snap the divider wall onto the mounting base
- All versions snap onto DB-C mounting base
- Meets UL508/508A insulation material requirement for barrier between conductors
- UL 94 flammability rating of V-0
- Material: Lead-free PVC
- Divider wall heights 2" and greater have a scoreline feature allowing sections to be removed leaving a smooth edge



DB-C



D*H6 and D*H2



SD*H6

Part Number	Used with Anchors	Std. Pkg. Qty.	Std. Ctn. Qty.
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Panduit® Divider Wall Mounting Base

DB-C	Panduit NR1 or #8, #10, M4 or M5 screw	100	1000
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Part Number	For Nominal Duct Height		Length		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	Ft.	m			

Panduit® Solid Divider Wall

D2H6	2.00	50	6	—	Light Gray	6	120
D3H6	3.00	75	6	—	Light Gray	6	120
D4H6	4.00	100	6	—	Light Gray	6	120
D2HWH6	2.00	50	6	—	White	6	120
D3HWH6	3.00	75	6	—	White	6	120
D4HWH6	4.00	100	6	—	White	6	120

Panduit® Slotted Divider Wall

SD2H6	2.00	50	6	—	Light Gray	6	120
SD3H6	3.00	75	6	—	Light Gray	6	120
SD4H6	4.00	100	6	—	Light Gray	6	120
SD2HWH6	2.00	50	6	—	White	6	120
SD3HWH6	3.00	75	6	—	White	6	120
SD4HWH6	4.00	100	6	—	White	6	120

Note: Must be used with mounting base, DB-C (see page C1.26) which is sold separately. Install mounting bases to the duct channel, locate within 2" of each divider wall end and at least every 12" along the length.

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Panduct® Type FL Wiring Duct Dimensions

Dimensions are shown for reference only.

Dimensions are in mm (in.). Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.

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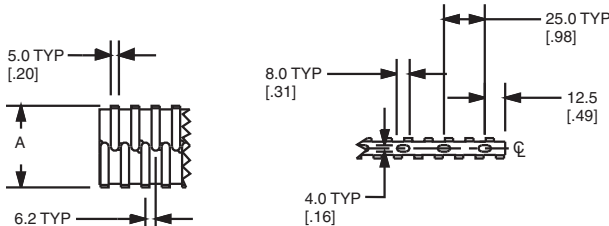
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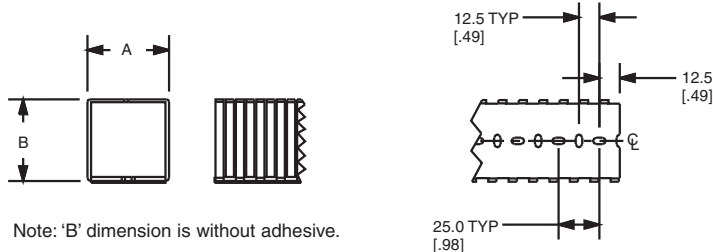
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Mounting Hole Dimensions
For FL12X12LG-A



For FL25X25LG-A and FL50X50LG-A



Note: 'B' dimension is without adhesive.

Nominal Duct Size (W x H) mm	Dimensions – mm (In.)	
	A	B
12 x 12 (.49) x (.49)	12.4 (.49)	12.4 (.49)
25 x 25 (.98) x (.98)	24.9 (.98)	24.9 (.98)
50 x 50 (1.97) x (1.97)	50 (1.97)	50 (1.97)

Note: Type FL wiring duct has factory applied adhesive. For 50 x 50 two strips of tape are used; otherwise, only one strip is centered on the part.

Panduct® PanelMax™ DIN Rail Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.		Area per channel In. ²	Electrical															Communication				
			8 AWG	10 AWG	12 AWG			14 AWG			16AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable	
			.216	.164	.130	.141	.152	.111	.124	.133	.096	.111	.118	.084	.100	.106	.085	.298	.289	.250	.187	.118
			THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm	
DRD22	6.25 x 2.15	4.760	51	88	140	119	103	193	154	134	258	193	170	337	238	211	329	26	28	38	68	170
DRD33	7.25 x 3.16	6.536	70	121	193	164	141	265	212	184	354	265	234	463	326	290	452	36	39	52	93	234
DRD44	8.25 x 4.16	9.180	98	170	271	230	198	372	298	259	498	372	329	650	459	408	635	51	54	73	131	329

Table shows maximum wirefill per channel based on 50% of duct internal cross sectional area. Formula = internal area/2.00 x D².

Panduct® PanelMax™ Corner Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.		Area In. ²	Electrical															Communication			
			8 AWG	10 AWG	12 AWG		14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable	
			.216	.164	.130	.141	.152	.111	.124	.133	.096	.111	.118	.084	.100	.106	.085	.330	.250	.190	.118
			THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm
CWD3	4.4 x 3.6	17.580	188	326	520	442	380	713	571	496	953	713	631	1245	879	782	1216	80	140	243	630
CWD4	5.4 x 4.6	26.920	288	500	796	677	582	1092	875	760	1460	1092	966	1907	1346	1197	1862	123	215	372	964

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = area/2.00 x D².

Panduct® Type H, HN, and HS Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.	Nominal Area In. ²	Electrical															Communication				
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable	
		.216	.164	.130	.141	.152	.111	.124	.133	.096	.111	.118	.084	.100	.106	.085	.330	.250	.190	.118	
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm	
1.50 x 2.00	3.000	34	60	95	81	70	131	105	91	175	131	116	229	162	144	224	14	25	44	116	
1.50 x 3.00	4.500	52	90	143	122	105	197	158	137	263	197	174	344	243	216	336	22	38	67	174	
2.00 x 2.00	4.000	46	80	127	108	93	175	140	122	234	175	155	306	216	192	299	19	34	59	154	
2.00 x 3.00	6.000	69	120	191	163	140	263	210	183	351	263	232	459	324	288	448	29	51	89	232	
2.00 x 4.00	8.000	92	160	255	217	187	350	281	244	469	350	310	612	432	384	598	39	69	119	309	
3.00 x 3.00	9.000	104	180	287	244	210	394	316	275	527	394	349	689	486	432	673	44	77	134	348	
3.00 x 4.00	12.000	139	241	383	326	280	526	421	366	703	526	465	919	648	577	897	59	103	179	464	
4.00 x 4.00	16.000	185	321	511	435	374	701	562	488	938	701	621	1225	864	769	1197	79	138	239	619	

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = nominal area/1.85 x D². See page C1.48 for wiring duct color and size availability. AWG dimensions represent typical outer cable diameter in inches.

Panduct® Type NE Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.	Nominal Area In. ²	Electrical															Communication				
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable	
		.216	.164	.130	.141	.152	.111	.124	.133	.096	.111	.118	.084	.100	.106	.085	.330	.25	.190	.118	
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm	
0.50 x 0.50	0.250	2	4	7	6	5	10	8	7	13	10	8	17	12	11	17	1	2	3	8	
0.50 x 1.00	0.500	5	9	14	12	10	20	16	14	27	20	17	35	25	22	34	2	4	6	17	
1.00 x 1.00	1.000	10	18	29	25	21	40	32	28	54	40	35	70	50	44	69	4	8	13	35	
1.00 x 1.50	1.500	16	27	44	37	32	60	48	42	81	60	53	106	75	66	103	6	12	20	53	
1.00 x 2.00	2.000	21	37	59	50	43	81	65	56	108	81	71	141	100	88	138	9	16	27	71	
1.00 x 3.00	3.000	32	55	88	75	64	121	97	84	162	121	107	212	150	133	207	13	24	41	107	
1.00 x 4.00	4.000	42	74	118	100	86	162	130	113	217	162	143	283	200	177	276	18	32	55	143	
1.50 x 1.50	2.250	24	41	66	56	48	91	73	63	122	91	80	159	112	100	155	10	18	31	80	
1.50 x 2.00	3.000	32	55	88	75	64	121	97	84	162	121	107	212	150	133	207	13	24	41	107	
1.50 x 3.00	4.500	48	83	133	113	97	182	146	127	244	182	161	318	225	200	311	20	36	62	161	
1.50 x 4.00	6.000	64	111	177	150	129	243	195	169	325	243	215	425	300	266	415	27	48	83	215	
2.00 x 1.00	2.000	21	37	59	50	43	81	65	56	108	81	71	141	100	88	138	9	16	27	71	
2.00 x 2.00	4.000	42	74	118	100	86	162	130	113	217	162	143	283	200	177	276	18	32	55	143	
2.00 x 3.00	6.000	64	111	177	150	129	243	195	169	325	243	215	425	300	266	415	27	48	83	215	
2.00 x 4.00	8.000	85	148	236	201	173	324	260	226	434	324	287	566	400	355	553	36	64	110	286	
3.00 x 1.00	3.000	32	55	88	75	64	121	97	84	162	121	107	212	150	133	205	13	24	41	107	
3.00 x 2.00	6.000	64	111	177	150	129	243	195	169	325	243	215	425	300	266	415	27	48	83	215	
3.00 x 3.00	9.000	96	167	266	226	194	365	292	254	488	365	323	637	450	400	622	41	72	124	322	
3.00 x 4.00	12.000	128	223	355	301	259	486	390	339	651	486	430	850	600	533	830	55	96	166	430	
3.00 x 5.00	15.000	160	278	443	377	324	608	487	423	813	608	538	1062	750	667	1038	68	120	207	537	
4.00 x 2.00	8.000	85	148	236	201	173	324	260	226	434	324	287	566	400	355	553	36	64	110	286	
4.00 x 3.00	12.000	128	223	355	301	259	486	390	339	651	486	430	850	600	533	830	55	96	166	430	
4.00 x 4.00	16.000	171	297	473	402	346	649	520	452	868	649	574	1133	800	711	1107	73	128	221	573	
4.00 x 5.00	20.000	214	371	591	502	432	811	650	565	1085	811	718	1417	1000	889	1384	91	160	277	716	

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = nominal area/2.00 x D².
AWG dimensions represent typical outer cable diameter in inches.

Panduct® Type FL Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) mm	Nominal Area mm²	Electrical															Communication			
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG	23/24 AWG	24 AWG	Fiber Cable
		5.5	4.2	3.3	3.6	3.9	2.8	3.1	3.4	2.4	2.8	3.0	2.1	2.5	2.7	2.2	8.4	6.4	4.8	3.0
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A	Cat. 6	Cat. 5e	3.0 mm
12 x 12	144	1	3	5	4	3	7	5	5	9	7	6	12	8	7	12	0	1	2	6
25 x 25	625	8	14	22	19	16	31	25	21	42	31	27	54	38	34	53	3	6	10	27
50 x 50	2500	33	57	91	77	67	125	100	87	168	125	111	219	155	137	214	14	24	42	111

Table shows maximum wirefill based on 50% of duct internal cross sectional area. Formula = nominal area/2.50 x D².
AWG dimensions represent typical outer cable diameter in millimeters.

Panduct® Wiring Duct and Raceway – Material Specifications

Properties	Units	Test Method	Lead-Free PVC	Halogen-Free Modified PPO (NNC, NE)	Polypropylene (FL)
General					
Specific gravity	g/cc	ASTM D 792	1.45	1.09	0.95
Heat deflection temperature @264 psi	°F	ASTM D 648	156	215	117
Thermal expansion	10-5 in/in/°F	ASTM D 696	3.7	3.8	N/A
Thermal conductivity	(BTU-in/hr-ft²)°F	ASTM C 177	1.3	1.3	N/A
Burning Characteristics					
Flammability class	—	UL 94	V-0	V-0	V-2
Smoke density @ 4 minutes	—	ASTM E 662	538	513	N/A
Limited oxygen index (LOI)	—	ASTM D 2863	35	30	25
Peak heat release rate	kW/m2	ASTM E 1354	N/A	N/A	N/A
Hardness					
Durometer hardness	"D"	ASTM D 2240	78	N/A	N/A
Rockwell hardness	"R"	ASTM D 785	111	116	N/A
Tensile					
Yield Strength	psi	ASTM D 638	6,200	7,700	3,770
Modulus	psi	ASTM D 638	390,000	350,000	172,000
Flexural					
Yield Strength	psi	ASTM D 790	8,700	11,500	4,350
Modulus	psi	ASTM D 790	325,000	340,000	181,250
Impact strength					
Notched Izod (.125")					
23°C (73°F)	ft-lb/in	ASTM D 256	4.0	5.0	1.8
0°C (32°F)	ft-lb/in		1.6	2.0	N/A
Electrical Properties					
Power factor:					
60 Hz @30°C (86°F)	—	ASTM D 150	2.90	N/A	N/A
1 MHz @30°C (86°F)	—		4.00	N/A	N/A
Dielectric constant:					
60 Hz @30°C (86°F)	—	ASTM D 150	3.90	N/A	N/A
1 MHz @30°C (86°F)	—		3.30	N/A	N/A
Dielectric strength:					
Unconditioned	volts/mil	ASTM D 149	690	N/A	N/A
Conditioned	volts/mil		700	N/A	N/A

Note: To the best of our knowledge the above information is accurate.
Panduit assumes no liability for the accuracy or completeness of this information.

Rigid Polyvinyl Chloride (PVC)

A general purpose material for use in indoor applications. PVC has a UL 94 flammability rating of V-0 and is UL Recognized for continuous use temperatures up to 122°F (50°C). PVC is an economical wiring duct material.

Halogen-Free (Modified Polyphenylene Oxide)

A special purpose material for use in halogen-free or high temperature applications. Modified PPO has a UL 94 flammability rating of V-0 and is UL Recognized for continuous use temperatures up to 203°F (95°C), and is 20% lighter than PVC.

Polypropylene

A flexible material with a UL 94 flammability rating of V-2 and UL Recognized for continuous use temperatures up to 149°F (65°C).

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Panduct® Wiring Duct and Raceway – Color and Size Selection

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Duct Size W x H		LG Light Gray										WH White										BL Black				IB Intrs. Blue*	IG Intl Gry					
In.	mm																															
.5 x .5	12 x 12	G	F	FS						FL			G	F	FS		NE															
.5 x 1		G	F	FS									G	F			NE															
.5 x 2		G											G																			
.75 x .75		G	F	FS									G	F																		
.75 x 1		G											G																			
.75 x 1.5		G	F										G	F																		
.75 x 2		G											G													G						
1 x 1	25 x 25	G	F	FS					NNC	FL			G	F	FS		NE				NNC	MC			G	FS			G	F	MC	
1 x 1.5	25 x 37	G	F	FS					NNC				G	F			NE				NNC	MC			G				G	F	MC	
1 x 2	25 x 50	G	F	FS	D				NNC				G	F			NE				NNC	MC			G		D			G	F	MC
1 x 2.5	25 x 62																					MC									MC	
1 x 3	25 x 75	G	F	FS	D				NNC				G	F		D	NE				NNC	MC			G		D			G	F	MC
1 x 4	25 x 100	G	F	FS	D								G	F		D	NE								G		D			G	F	
1.5 x 1		G	F	FS									G	F	FS																	
1.5 x 1.5	37 x 37	G	F	FS					NNC				G	F	FS		NE				NNC	MC			G	FS				G	F	MC
1.5 x 2	37 x 50	G	F	FS	D	H	HN	HS	NNC				G	F			NE	H	HN	HS	NNC	MC			G		D	H	HS	G	F	MC
1.5 x 2.5	37 x 62																					MC									MC	
1.5 x 3	37 x 75	G	F	FS	D	H	HN	HS	NNC				G	F		D	NE	H	HN	HS	NNC	MC			G		D	H	HS	G	F	MC
1.5 x 4		G	F		D								G	F		D	NE								G		D			G	F	
2 x 1		G	F	FS									G	F	FS		NE								G							
2 x 1.5		G	F	FS									G	F	FS																	
2 x 2	50 x 50	G	F	FS	D	H	HN	HS	NNC	FL			G	F	FS	D	NE	H	HN	HS	NNC	MC			G	FS	D	H	HS	G	F	MC
2 x 3	50 x 75	G	F	FS	D	H	HN	HS	NNC				G	F	FS	D	NE	H	HN	HS	NNC	MC			G		D	H	HS	G	F	MC
2 x 4	50 x 100	G	F	FS	D	H	HN	HS	NNC				G	F		D	NE	H	HN	HS	NNC	MC			G		D	H	HS	G	F	MC
2 x 5		G	F										G	F																		
2.5 x 2.5	62 x 62																					MC									MC	
2.5 x 3		G	F		D								G	F											G							
3 x 1		G	F	FS									G	F	FS		NE															
3 x 2	75 x 50	G	F	FS	D								G	F	FS		NE					MC			G	FS					MC	
3 x 2.5	75 x 62																					MC									MC	
3 x 3	75 x 75	G	F	FS	D	H	HN	HS	NNC				G	F	FS	D	NE	H	HN	HS	NNC	MC			G	FS	D	H	HS	G	F	MC
3 x 4	75 x 100	G	F	FS	D	H	HN	HS					G	F	FS	D	NE	H	HN	HS		MC			G		D	H	HS	G	F	MC
3 x 5		G	F	FS									G	F	FS		NE															
4 x 1.5		G		FS									G																			
4 x 2	100 x 50	G	F	FS	D				NNC				G	F	FS		NE				NNC	MC			G		D				MC	
4 x 3	100 x 75	G	F	FS	D				NNC				G	F	FS		NE				NNC	MC			G					G	F	MC
4 x 4	100 x 100	G	F	FS	D	H	HN	HS	NNC				G	F	FS	D	NE	H	HN	HS	NNC	MC			G	FS	D	H	HS	G	F	MC
4 x 5		G	F	FS									G	F			NE								G							
6 x 4		G	F	FS									G	F	FS																	
4.40 x 3.57*	111.8 x 90.7									CWD												CWD										
5.33 x 4.58*	135.3 x 115.7									CWD												CWD										
6.25 x 2.12**	156.7 x 54.0										DRD												DRD									
7.25 x 3.12**	184.1 x 79.4										DRD													DRD								
8.25 x 4.12**	209.5 x 104.8										DRD													DRD								

*Corner Duct Profile

**DIN Rail Duct Profile

*Intrinsic Blue Color – IB

Intrinsic blue wiring duct is made from the same lead-free PVC material as our standard PVC duct. Intrinsic blue is an internationally recognized standard blue color that identifies the wiring duct as “incapable of releasing sufficient electrical or thermal energy under normal or abnormal conditions to cause ignition of a specific hazardous atmospheric mixture in its most easily ignited concentrations.”

*ISA-RD12.6 (Instrument Society of America)