Panduct® PanelMax™ Noise Shield

- Reduces EMI/RFI noise between sensitive and noisy wiring for up to 20dB reduction in noise, or 90% NVR (equivalent to 6 inches of air spacing); innovative design installs easily within Panduit wiring duct or when mounted separately, delivering greater design flexibility to satisfy a wide range of applications
- Perforated and pre-scored sections speed installation by allowing sections of the shield to be snapped off at pre-scored locations to easily cut to length with minimal deburring required
- Vertical wall slots allow wires to cross the barrier at 90° when necessary, providing greater design flexibility
- Horizontal cable tie slots allow cable bundles to be held in place using cable ties so cabling is kept near barrier for greater reliability and optimal aesthetics
- Zinc plated steel surface in contact areas with sub-panel and bonding clip ensures continuity and is corrosion resistant
- Black powder coated vertical surface for smooth edges
- Meets UL 508/508A requirements as a barrier between conductors

PanelMax™ Noise Shield and Bonding Clips

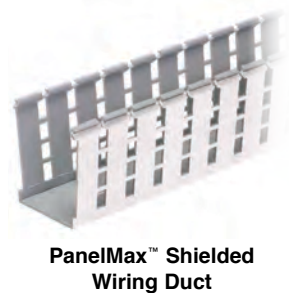| Part Number	Part Description	Std. Pkg. Qty.
SD2EMI	EMI Noise Shield kit for 2" height Panduit Wiring Duct; (2) three foot sections, bonding clips, and anti-oxidizing paste.	1
SD3EMI	EMI Noise Shield kit for 3" height Panduit Wiring Duct; (2) three foot sections, bonding clips, and anti-oxidizing paste.	1
SD4EMI	EMI Noise Shield kit for 4" height Panduit Wiring Duct; (2) three foot sections, bonding clips, and anti-oxidizing paste.	1
SDCLIP	Noise Shield replacement bonding clips – 2 clips.	1

Panduct® PanelMax™ Shielded Wiring Duct

- Durable and continuous metallic foil covers and shields outer duct surfaces providing EMI/RFI noise reduction between sensitive and noisy wiring for up to 20dB reduction in noise, or 90% NVR (equivalent to 6 inches of air spacing)
- Slotted sidewalls with horizontal bridge connectors provide wire management capability and noise reduction in the full height of the duct; slot size compatible with various wire types and sizes, including UTP Ethernet cabling
- High-quality Panduit PVC wiring duct base fully contains and protects wiring, easy to cut and install, and uses standard Panduit wiring duct covers
- Installs with standard fasteners including Panduit NR1 rivets

PanelMax™ Shielded Wiring Duct

Part Number	Part Description	Std. Pkg. Qty.
G2X2LG6EMI	2" x 2" PanelMax™ Shielded Wiring Duct; 6-foot length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.	12
G2X3LG6EMI	2" x 3" PanelMax™ Shielded Wiring Duct; 6-foot length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.	12
G2X4LG6EMI	2" x 4" PanelMax™ Shielded Wiring Duct; 6-foot length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.	12

Use C2LG6 or C2WH6 cover with shielded wiring duct. Standard package quantity in feet.

Performance Characteristics

Noise Shielding Performance

Noise Shielding Effectiveness in dB

(values: 0.00, -5.00, -10.00, -15.00, -20.00 90%NVR*, -25.00)

Frequency in Mhz (0 1 2 3 4 5 6 7 8 9 10)

- No Shield
- Panduit® PanelMax™ Shielded Products
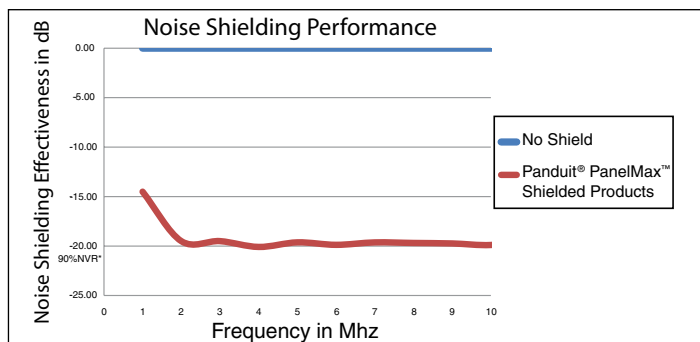
Relative noise reduction in decibels over frequency range of Panduit® PanelMax™ Shielded Wiring Duct and Noise Shield

PanelMax™ Shielded Wiring Duct and Noise Shield deliver approximately 20dB of noise reduction across common industrial noise frequencies at 30mm wire separation with an approximate 1-meter coupling length.

*NVR (Noise Voltage Reduction percentage).

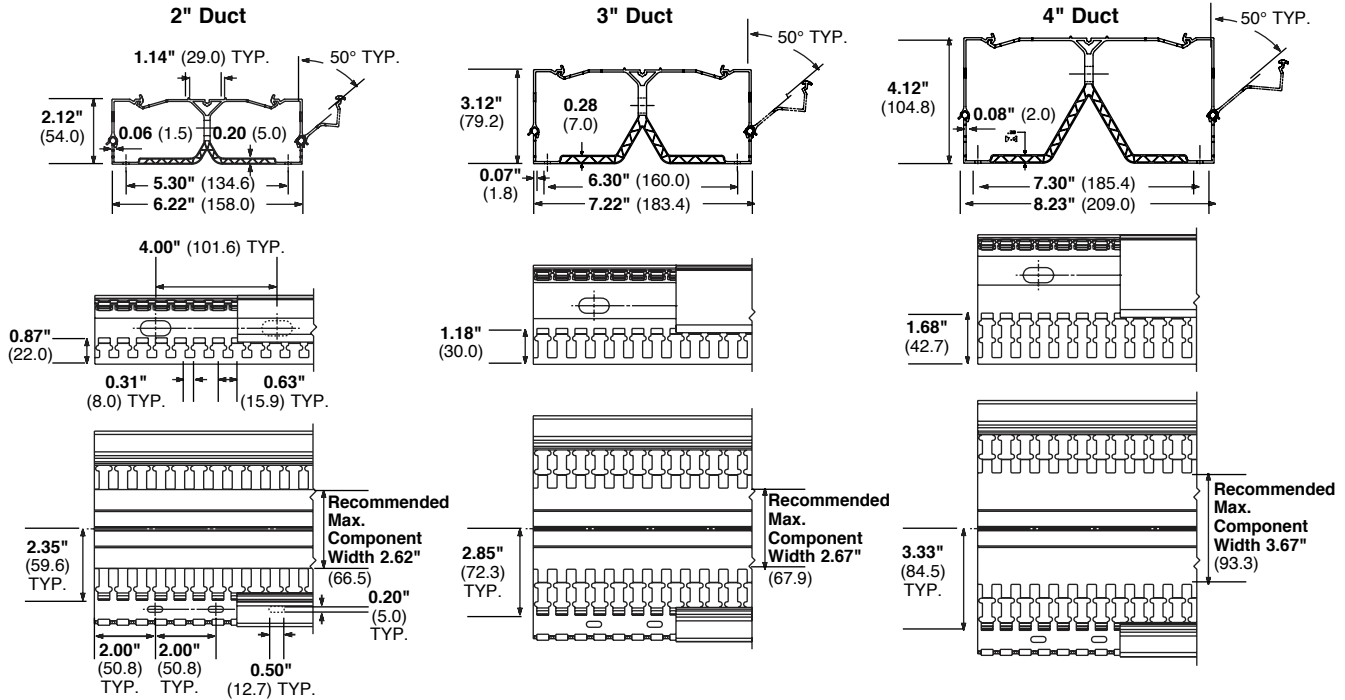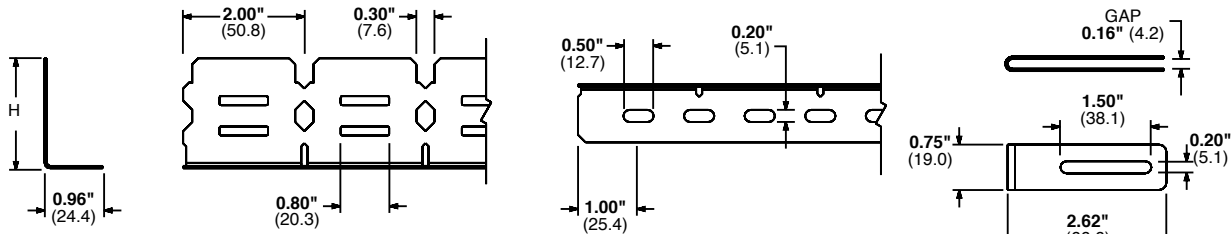## Panduct® PanelMax™ DIN Rail Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.

2" Duct

1.14" (29.0) TYP.
50° TYP.
2.12" (54.0)
0.06 (1.5) 0.20 (5.0)
5.30" (134.6)
6.22" (158.0)

4.00" (101.6) TYP.
0.87" (22.0)
0.31" (8.0) TYP. 0.63" (15.9) TYP.

2.35" (59.6) TYP.
Recommended Max. Component Width 2.62" (66.5)
0.20" (5.0) TYP.
2.00" (50.8) TYP. 2.00" (50.8) TYP. 0.50" (12.7) TYP.

3" Duct

50° TYP.
3.12" (79.2)
0.28 (7.0)
0.07" (1.8)
6.30" (160.0)
7.22" (183.4)

1.18" (30.0)

2.85" (72.3) TYP.
Recommended Max. Component Width 2.67" (67.9)

4" Duct

50° TYP.
4.12" (104.8)
0.08" (2.0)
7.30" (185.4)
8.23" (209.0)

1.68" (42.7)

3.33" (84.5) TYP.
Recommended Max. Component Width 3.67" (93.3)

Panduct® PanelMax™ Noise Shield Dimensions

Dimensions are shown for reference only. Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.

2.00" (50.8) 0.30" (7.6)
H
0.96" (24.4)
0.80" (20.3)

0.50" (12.7) 0.20" (5.1)
1.00" (25.4)
Bottom view.

GAP 0.16" (4.2)
1.50" (38.1)
0.75" (19.0) 0.20" (5.1)
2.62" (66.6)
Bonding clip (for use with wiring duct).

Part No.	H
SD2EMI	1.82 (46.1)
SD3EMI	2.88 (73.2)
SD4EMI	3.86 (98.2)

Sidewall: SD2EMI shown.
SD3EMI, SD4EMI sidewall feature two pairs of cable tie slots per section.

All dimension shown in inches (mm).

Panduct® PanelMax™ Corner Wiring Duct Dimensions

Dimensions are shown for reference only. Contact Panduit Customer Service at 800-777-3300 for specific dimensional needs.

Size	Dimensions – Inches (mm)								
	A	C	D	G	H	K	T	W	Z
CWD2	3.91 (99.3)	2.25 (57.2)	1.81 (45.9)	2.10 (53.4)	2.57 (65.3)	2.93 (74.3)	0.08 (2.0)	3.35 (85.0)	3.72 (94.6)
CWD3	4.98 (126.6)	2.25 (57.2)	2.83 (71.8)	3.10 (79.1)	3.57 (90.7)	3.88 (98.6)	0.10 (2.4)	4.40 (111.8)	5.16 (131.0)
CWD4	5.94 (150.9)	2.25 (57.2)	3.84 (97.5)	4.10 (104.1)	4.58 (115.7)	4.93 (125.2)	0.11 (2.7)	5.33 (135.3)	6.54 (166.0)

T C A
Z G H
W A A

0.50" TYP [12.7]
D
0.20" TYP [5.0]
View A – A

K 2.00" [50.8]
2.00" TYP [50.8]
0.50" TYP [12.7]
0.20" TYP [5.0]