

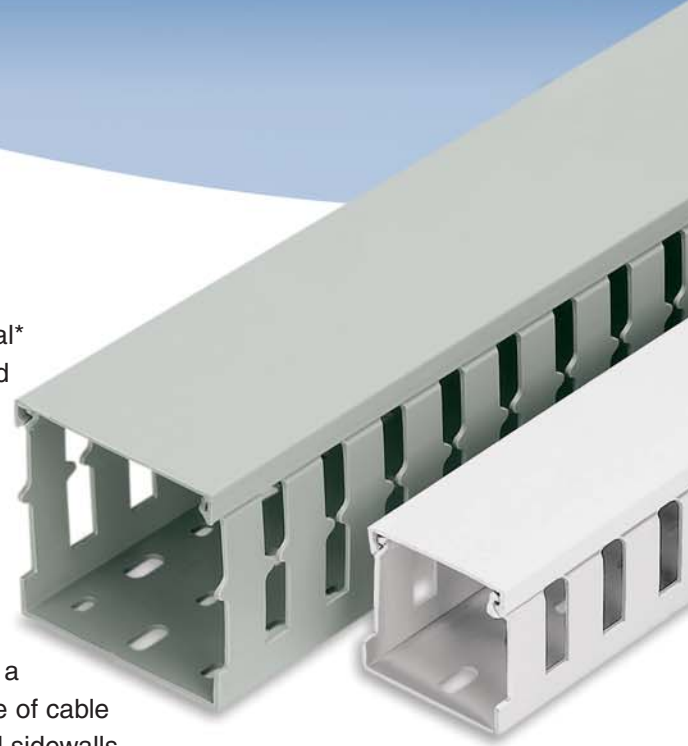
## Panduct® Type NNC – Halogen-Free Metric Wiring Duct

Panduct® Type NNC Wiring Duct is made from halogen-free material\* that will not emit corrosive or harmful toxic gases when burned, and withstands higher continuous-use temperatures than PVC. NNC wiring duct is used to route, protect, and manage wires near sensitive electronic equipment and in environments where heat resistance or public safety is a concern.

NNC wiring duct is available in fourteen metric profile sizes from 25.0mm (1.00") x 25.0mm (1.00") to 100.0mm (4.00") x 100.0mm (4.00") to meet a variety of applications. The product base features a wide-slot design, allowing the product to be used with a large range of cable diameters, and two score lines for easy removal of duct fingers and sidewalls.

The non-slip cover stays in place when mounted vertically or in areas of high vibration. The halogen-free material has a UL94 flammability rating of V-0 and a UL recognized continuous-use temperature rating of 95°C (203°F). NNC wiring duct meets NFPA 79-2012, Electrical Standard for Industrial Machinery, Section 13.3.1.

\*Per IEC 60754-2 determination of the amount of halogen acid gas evolved during the combustion of material.



LOW  
FLAMMABILITY  
UL94 V-0



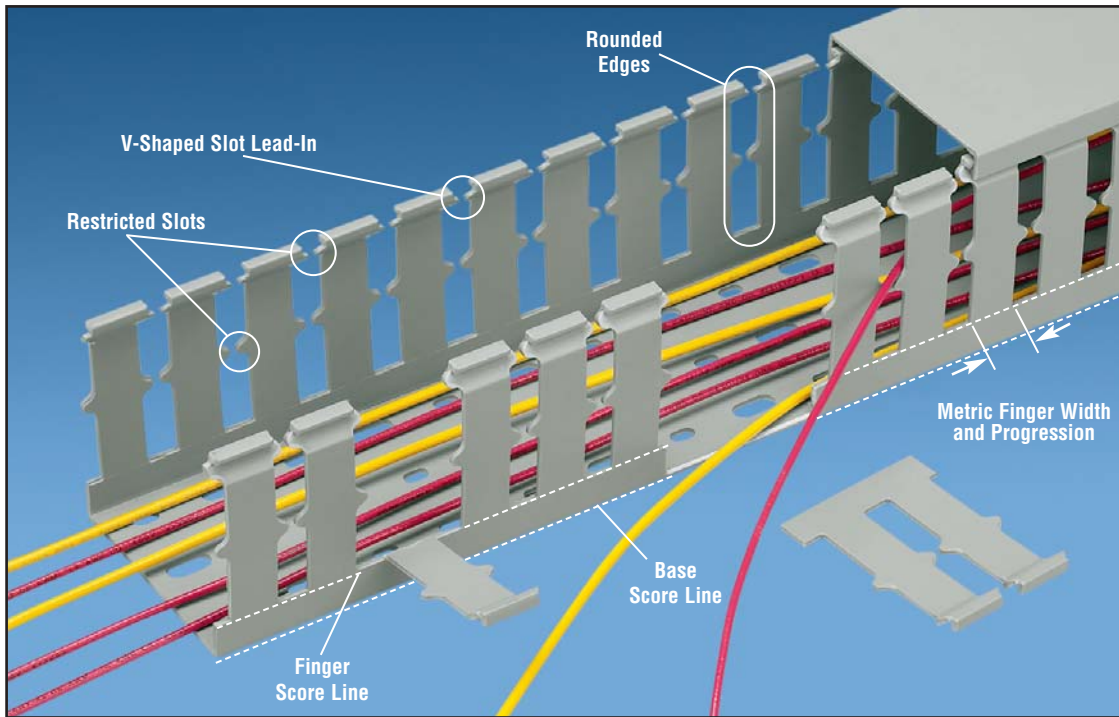
ELEVATED  
TEMPERATURE  
95°C (203°F)



HALOGEN-  
FREE  
IEC 60754-2



# Panduct® Type NNC Wiring Duct



## Key Features

## Benefits

<b>Halogen-free material</b>	Non-toxic, lead-free, environmentally safe material and will not release toxic or corrosive gases in the event of a fire that could endanger public safety or damage sensitive electronics in enclosed environments (passenger rail, oil and gas platforms)
<b>UL94 V-0 material flame rating</b>	Material is self extinguishing and provides a greater flame resistance when compared to other halogen-free wiring ducts enabling its use in more electrical applications
<b>High continuous-use temperature</b>	The UL recognized continuous-use temperature of 95°C (203°F) is greater than other PVC wiring ducts, indicating its use in more applications
<b>Flush cover</b>	The base sidewall is even with cover for superior aesthetics and greater wiring capacity when compared to non-flush cover wiring duct
<b>Base and finger score line</b>	The product has score lines at the base of the finger and sidewall allowing easy finger and sidewall breakouts, saving installation time compared to other halogen-free ducts
<b>Halogen-free non-slip cover liner</b>	The halogen-free liner ensures that the cover does not slide easily when installed on the base, and stays in place during control panel vibration (due to shipment or during machine operation)
<b>DIN 43 659 mounting hole pattern</b>	Provides the appropriate mounting hole pattern for control panels designed to European standards and provides more mounting holes for greater mounting flexibility
<b>Fourteen sizes available</b>	User can maximize value by choosing duct sizes with wire capacity to closely match application requirements, providing design flexibility and scalability to the application

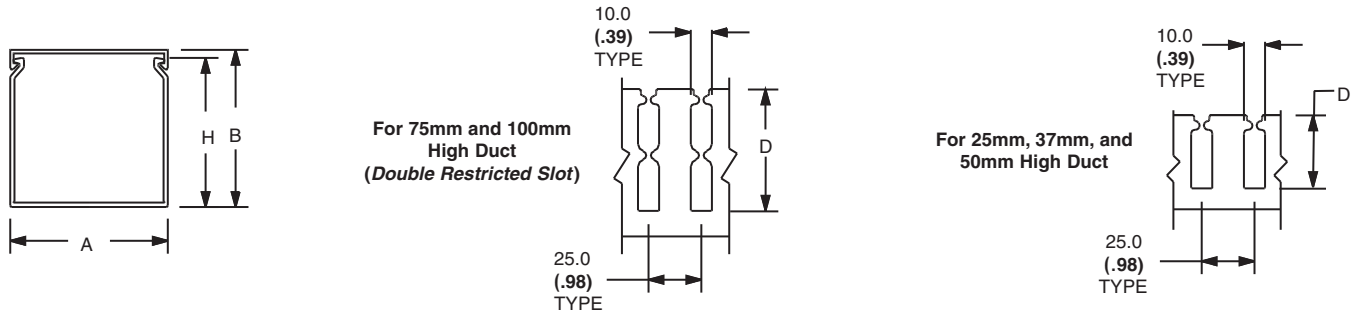
# Ordering Information

Duct and Cover* Part Numbers	Duct Nominal Size		Duct and Cover Std. Ctn.** Qty. (m)	Replacement Cover Part Numbers	Replacement Cover Std. Ctn. Qty. (m)	DIMENSIONS – mm (In.) Refer to drawings below			
	W x H (mm)	W x H (In.)				A	B	D	H
NNC25X25LG2	25 x 25	1.00 x 1.00	20	NC25LG2	20	24.6 (0.97)	23.6 (0.93)	13.6 (0.54)	20.3 (0.80)
NNC25X37LG2	25 x 37	1.00 x 1.50	20		20	24.6 (0.97)	35.8 (1.41)	24.6 (0.97)	33.0 (1.30)
NNC25X50LG2	25 x 50	1.00 x 2.00	20		20	24.6 (0.97)	47.8 (1.88)	34.8 (1.37)	45.5 (1.79)
NNC25X75LG2	25 x 75	1.00 x 3.00	20		20	24.6 (0.97)	72.4 (2.85)	57.6 (2.27)	70.6 (2.78)
NNC37X37LG2	37 x 37	1.50 x 1.50	20		NC37LG2	20	37.1 (1.46)	35.8 (1.41)	24.7 (0.97)
NNC37X50LG2	37 x 50	1.50 x 2.00	20	20		37.1 (1.46)	47.8 (1.88)	34.8 (1.37)	45.5 (1.79)
NNC37X75LG2	37 x 75	1.50 x 3.00	20	20		37.1 (1.46)	72.4 (2.85)	57.6 (2.27)	70.6 (2.78)
NNC50X50LG2	50 x 50	2.00 x 2.00	20	NC50LG2	20	49.5 (1.95)	47.8 (1.88)	34.8 (1.37)	45.5 (1.79)
NNC50X75LG2	50 x 75	2.00 x 3.00	10		20	49.5 (1.95)	72.4 (2.85)	57.6 (2.27)	70.6 (2.78)
NNC50X100LG2	50 x 100	2.00 x 4.00	10		20	49.5 (1.95)	97.8 (3.85)	81.0 (3.19)	95.5 (3.76)
NNC75X75LG2	75 x 75	3.00 x 3.00	10	NC75LG2	20	74.7 (2.94)	72.4 (2.85)	57.6 (2.27)	70.6 (2.78)
NNC100X50LG2	100 x 50	4.00 x 2.00	10	NC100LG2	20	99.6 (3.92)	47.8 (1.88)	34.8 (1.37)	45.5 (1.79)
NNC100X75LG2	100 x 75	4.00 x 3.00	10		20	99.6 (3.92)	72.4 (2.85)	57.6 (2.27)	70.6 (2.78)
NNC100X100LG2	100 x 100	4.00 x 4.00	10		20	99.6 (3.92)	97.8 (3.85)	81.0 (3.19)	95.5 (3.76)

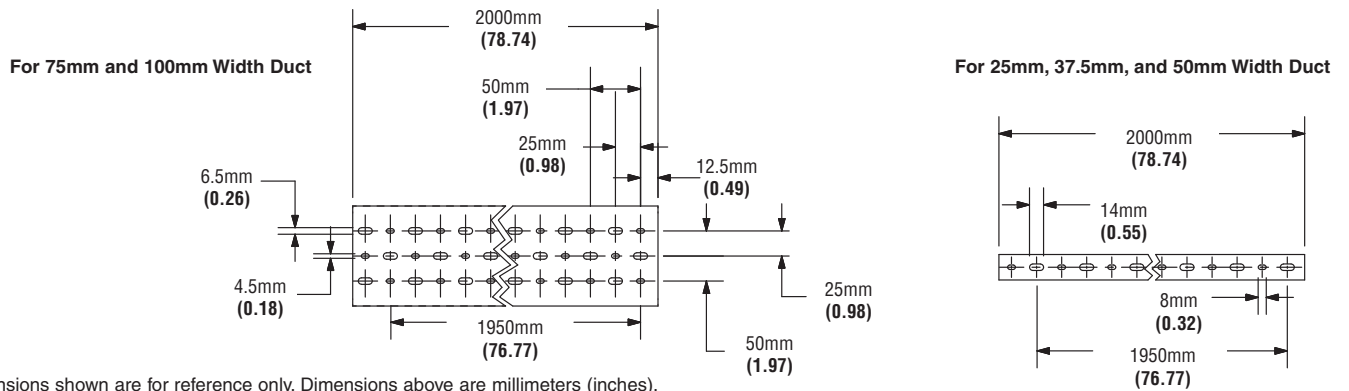
\*For White, substitute LG (Light Gray) with WH. For example: NNC25X50WH2.

\*\*Order number of meters required in multiples of standard carton quantities. Duct base and cover packaged together in 2m lengths.

## NNC Duct Dimensions



## Mounting Hole Dimensions



Dimensions shown are for reference only. Dimensions above are millimeters (inches).

NOMINAL DUCT SIZE (W x H) mm	NOMINAL AREA mm <sup>2</sup>	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	7.4	7.6	6.4	4.8	3.0		
25 X 25	625	11	20	32	27	23	44	36	31	60	44	39	78	55	49	76	6	6	8	15	39		
25 X 37	925	17	30	48	41	35	66	53	46	88	66	58	116	81	72	113	9	9	13	23	58		
25 X 50	1250	23	41	65	55	47	89	72	62	120	89	79	156	110	98	153	13	12	17	31	79		
25 X 75	1875	35	61	98	83	71	134	108	93	180	134	119	235	166	147	229	19	18	26	47	119		
37 X 37	1369	25	45	71	60	52	98	78	68	131	98	87	171	121	107	167	14	13	19	34	86		
37 X 50	1850	35	60	96	82	70	132	106	92	177	132	117	232	163	145	226	19	18	26	46	117		
37 X 75	2775	52	91	145	123	106	199	159	138	266	199	176	348	245	218	340	29	27	39	70	176		
50 X 50	2500	47	82	131	111	95	179	144	125	240	179	159	313	221	197	306	26	24	35	63	158		
50 X 75	3750	71	123	196	167	143	269	216	187	360	269	238	470	332	295	459	39	37	53	94	238		
50 X 100	5000	94	164	262	222	191	359	288	250	480	359	318	627	442	394	612	52	49	70	126	317		
75 X 75	5625	106	185	294	250	215	404	324	281	540	404	357	706	498	443	689	59	56	79	142	357		
100 X 50	5000	94	164	262	222	191	359	288	250	480	359	318	627	442	394	612	52	49	70	126	317		
100 X 75	7500	142	246	393	334	287	539	432	375	720	539	477	941	664	591	919	79	74	106	189	476		
100 X 100	10000	189	329	524	445	383	718	576	500	961	718	636	1255	885	788	1225	105	99	141	253	634		

Wirefill is based on 50% cross-sectional area.

# Panduct® Type NNC Wiring Duct - Material Properties

Properties	Halogen-Free PPO Material	Test Method
<b>General</b>		
Specific Gravity	1.09 g/cc	ASTM D 792
<b>Mechanical</b>		
Tensile Strength at Yield	7,700 psi	ASTM D 638
Flexural Strength	11,500 psi	ASTM D 790
Flexural Modulus	340,000 psi	ASTM D 790
Notched Izod Impact @ 23°C (73°F)	5.0 ft.-lbs./In.	ASTM D 256
Heat Deflection Temperature @264 psi	102°C (215°F)	ASTM D 648

Properties	Halogen-Free PPO Material	Test Method
<b>Flammability</b>		
Limited Oxygen Index (LOI)	30	ASTM D 2863
Smoke Density (Flaming) @ 4 min.	534	ASTM E 662
Flammability Class @ 0.060"	V-0	UL94
Halogen Free	Yes	IEC 60754-2
<b>Agency Approvals</b>		
UL Recognized file E147128 CSA Certified file 016446-0-00 CE Compliant:		

Note: DO NOT allow cutting, tapping, or cleaning fluids that contain hydrocarbons to come in contact with Type NNC wiring duct. For a list of recommended lubricants to use with Type NNC wiring duct log on to [www.panduit.com](http://www.panduit.com)

## Accessories

### Panduct® Type NNC Halogen-Free Solid Divider Wall

- NNC solid divider wall can be mounted inside NNC or NE wiring duct to create multiple channels
- Material: Halogen-free modified PPO
- Simply install the divider wall base when mounting the duct and snap the divider wall onto mounting base, DB-C



NNC\*\*DWH2

Part Number	For Nominal Duct Height (mm)	Length (m)	Std. Pkg. Qty.	Std. Ctn. Qty.
NNC50DWH2	50	2	2	40
NNC75DWH2	75	2	2	40

Available in WH (White) color only.  
Note: Must be used with mounting base, DB-C, 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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