

Wyr-Grid® Overhead Cable Tray Routing System

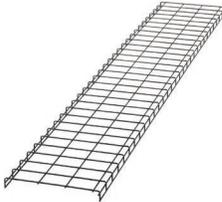
Wyr-Grid® Pathways

- Pathways are provided in five widths: 8" (203mm), 12" (305mm), 18" (457mm), 24" (610mm), and 30" (762mm)

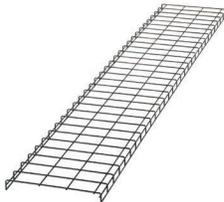
- Standard finishes are black powder coat and electro zinc plated
- Non-integral sidewalls minimize specification requirements



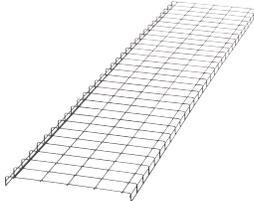
WG8BL10



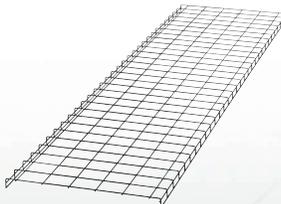
WG12BL10



WG18BL10



WG24BL10



WG30BL10

Part Number	Part Description	Std. Pkg. Qty.
WG8BL10	8" wide x 10' long pathway section used to carry cables horizontally throughout the system. Snap-on sidewalls attach for job specific height requirements. Uses splice connector WGSPL1218BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at an intersection.	10
WG12BL10	12" wide x 10' long pathway section used to carry cables horizontally throughout the system. Snap-on sidewalls attach for job specific height requirements. Uses splice connector WGSPL1218BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at an intersection.	10
WG18BL10	18" wide x 10' long pathway section used to carry cables horizontally throughout the system. Snap-on sidewalls attach for job specific height requirements. Uses splice connector WGSPL1218BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at an intersection.	10
WG24BL10	24" wide x 10' long pathway section used to carry cables horizontally throughout the system. Snap-on sidewalls attach for job specific height requirements. Uses splice connector WGSPL2430BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at an intersection.	10
WG30BL10	30" wide x 10' long pathway section used to carry cables horizontally throughout the system. Snap-on sidewalls attach for job specific height requirements. Uses splice connector WGSPL2430BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at an intersection.	10

Order number of feet required, in multiples of standard 10' length increments.
For electro zinc finish replace BL (Black) with EZ.

Wire Fill for Wyr-Grid® Overhead Cable Tray Routing System

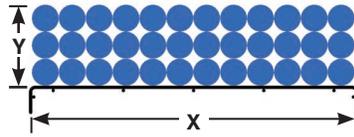


Table 1

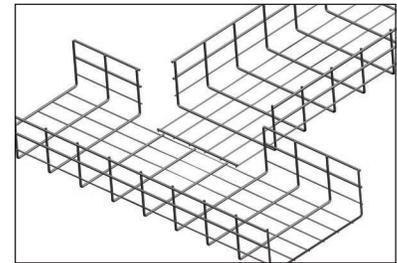
X (in.)	Y (in.)	Internal Area (in ²)	Category 6A (SD) Dia. 0.240" 6.1mm	Category 6A Dia. 0.300" 7.6mm	Category 6 Dia. 0.240" 6.1mm	X (in.)	Y (in.)	Internal Area (in ²)	Category 6A (SD) Dia. 0.240" 6.1mm	Category 6A Dia. 0.300" 7.6mm	Category 6 Dia. 0.240" 6.1mm
12.2	2	24.3	269	172	269	24.2	2	48.3	534	342	534
	4	48.7	538	344	538		4	96.7	1069	684	1069
	6	73.0	807	516	807		6	145.0	1603	1026	1603
18.2	2	36.3	401	257	401	30.2	2	60.3	666	427	666
	4	72.7	804	514	804		4	120.7	1334	854	1334
	6	109.0	1205	771	1205		6	181.0	2000	1280	2000

"Y" equates to the height of the Wyr-Grid® Optional Sidewalls. The internal area defines the allowable fill capacity based on the Wyr-Grid® Pathway width and optional sidewall height. The Wyr-Grid® Pathway cable fill is based on NEC allowable fill of 50%. The above cable diameters represent the nominal Panduit cable diameter per performance level.

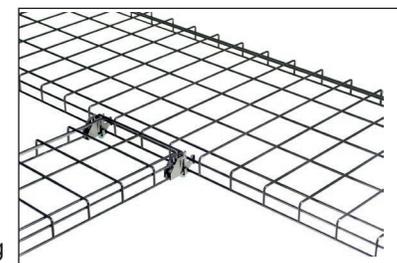
Load Rating for Wyr-Grid® Pathways

Two different industry standards provide methods by which the load rating of a cable tray system is identified. Those standards are EN 61537:2007 (Cable management – cable tray systems and cable ladder systems) and NEMA VE1/CSA 22.2 (Metal Cable Tray Systems). The EN 61537:2007 standard takes into account various pathway configurations such as Tee Intersections, Cross Intersections, Straight Sections and Straight Sections with Splice Connectors. The NEMA VE1/CSA 22.2 load rating test strictly evaluates the straight sections and does not address any of the directional changes that would need to be fabricated in the field. Furthermore, it does not identify a deflection limit for the loaded pathways. When specifying a cable tray system it is imperative that the system will support the required load in any pathway configuration without excessive deflection. Therefore, the EN 61537:2007 test requirements for load rating are much more representative to what will be encountered in the field.

The Wyr-Grid® Pathway is unique in that the load rating is not dependent on the height of a sidewall. The optional sidewalls on the Wyr-Grid® System are simply intended to retain cables where and when required. They do not contribute to the overall strength of the product. The sidewall height and pathway width on traditional wire basket systems determine its load carrying capacity. These systems require the sidewall to be removed when creating tee intersections and cross intersections, drastically reducing the overall strength of the pathway. The Wyr-Grid® System does not require sidewall removal when creating intersections, therefore the overall strength of the pathway is not compromised.



Traditional Wire Basket
Sidewall Removal Required



Wyr-Grid® Pathways
No Sidewall Removal Required

The Wyr-Grid® Pathway System has been engineered and tested to support loads that greatly exceed its cable carrying capacity. Table 2 provides an example of the practical loads that will be encountered when the pathway is filled to its capacity utilizing common data cables*. Identification of the Wyr-Grid® Overhead Cable Tray Routing System load rating was obtained through testing protocol according to EN 61537:2007. The load rating for the system is identified as the Safe Working Load (SWL) as shown in Table 2. The SWL is an evenly distributed load at which the midspan deflection of the cable tray is less than 1/100th of the span between supports in the longitudinal direction, as shown in Figure 1. Furthermore, the transverse deflection at the SWL must be less than 1/20th of the cable tray width, as shown in Figure 2. The SWL ratings in the table apply for Wyr-Grid® Cable Tray installed in any of the following configurations; cable tray only, straight splice, cross intersections, and tee intersections.

*In applications where power cables or premise distribution fiber cables are routed on the Wyr-Grid® Pathway, the Safe Working Loads (SWL) also apply.

Table 2

Part Number	Tray Width (In.)	Cable Load (lbs/ft)*			Safe Working Load (lbs/ft)					
		Category 6A (SD)	Category 6A	Category 6	4 Foot Support Span	5 Foot Support Span	6 Foot Support Span	7 Foot Support Span	8 Foot Support Span	9 Foot Support Span
WG12BL10	12	24.21	18.06	25.02	113	90	69	54	43	34
WG18BL10	18	36.15	26.99	37.36	115	90	67	52	41	31
WG24BL10	24	48.09	35.91	49.69	116	92	69	54	53	33
WG30BL10	30	60.00	44.80	62.00	116	92	69	54	53	33

*The cable load is defined by the maximum wire fill, as shown in Table #1 for each pathway width and 6" depth. For electro zinc finish replace BL (Black) with EZ.