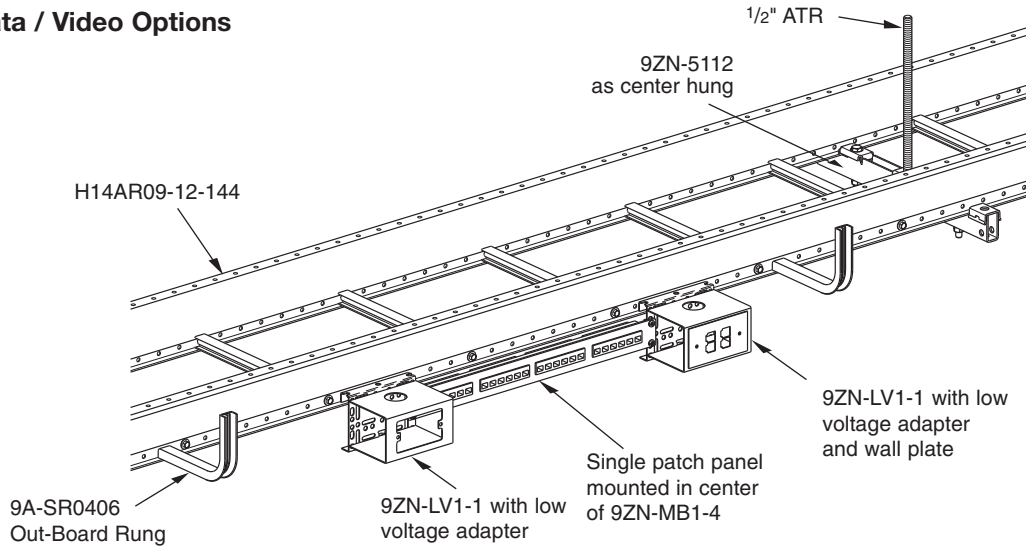
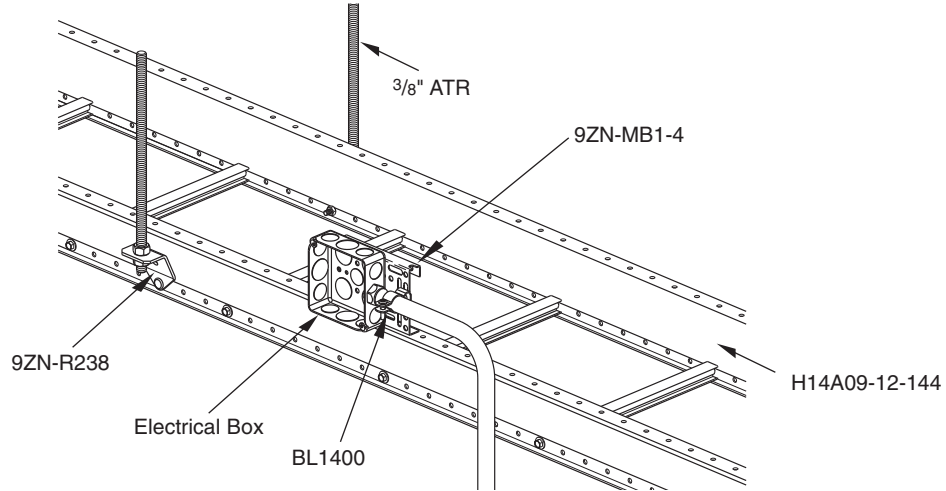


Voice / Data / Video Options



Power Options



Data Cables

The National Electrical Code allows for 50% fill of ventilated cable tray for control or signal wiring (Article 392-9(b)). This rule requires that all the individual cable cross-sectional areas added up may not exceed one half the cable tray area. The cable tray area is equal to the width times the load depth.

In actual practice with data cables, however, the cable tray becomes completely full in reaching the "50% cable fill". See the picture below. The tray is completely full, but the sum of the cable areas is only 50% of the tray area, due to the empty spaces between the cables.

Data Cable Fill and Weight Chart

Number of Category 5/5e/6 Cables and Calculated Cable Weight in Lbs/Ft



"50%" Fill Per NEC
Cross Sectional Area
Calculation

Tray Depth in mm	Tray Width															
	6"		9"		12"		18"		24"		30"		36"			
	Cables	lbs/ft	Cables	lbs/ft	Cables	lbs/ft	Cables	lbs/ft	Cables	lbs/ft	Cables	lbs/ft	Cables	lbs/ft		
3"	76	260	7	390	10	520	14	780	21	1040	26	1299	32	1559	41	
4"	101	347	9	520	13	693	18	1040	27	1386	35	1733	43	2079	54	
5"	127	433	12	650	17	866	23	1299	34	1733	43	2166	53	2599	68	
6"	152	520	14	780	20	1040	27	1559	41	2079	52	2599	64	3119	81	

This chart was based on 50% fill of 4 UTP Category 5, 5e, or 6 cables (O.D. = .21" .026 lbs/ft). In the above loading grid, the weight of the cables is not the issue. The volume capacity of the tray governs. For example, the worst case (6" load depth, 36" wide) has a total cable weight of 81 lbs/ft.

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items