

Bill of Materials

Part Number	Description
	Cable Protection and Management
CPM122S-C	Control panel switch cable tie mount, 1.22" (31.0mm) hole.
FL12X12LG-A	PanDuct type FL flexible wiring duct, 12.5mm W x 12.5mm H, 19.7' length, flexible polypropylene, adhesive, ligh gray.
ARC.68-A-C	Adjustable and releasable clamp, .69" (17.5mm) bundle, white, bulk package.
ABDCM30-A-C	Cable manager for panel strain relief, 1.12" long x 1.12" wide (28.4 x 28.4 mm), made of nylon 6.6, for use with miniature, intermediate, and standard cable ties.
PW50F-T	Pan-Wrap Split Harness Wrap, 0.50" (12.7mm), Natural, 200 ft. (61m) per roll.
IAEBH6XS	Industrial Ethernet connector, Category 6, STP.
	Electrical Noise Reduction and Space Savings
G2X2LG6EMI	Shielded wiring duct, 2 W x 2 H, 6' length, PVC, light gray.
SD2EMI	PanDuct PanelMax noise shield, EMI noise shield kit for 2" height Panduit wiring duct, (2) 3 foot sections, bonding clips, and anti-oxidizing paste, steel, black
DRD22LG6	PanDuct PanelMax DIN rail wiring duct (base, covers and DIN rail fasteners), 2" high, PVC, light gray.
CWD2LG6	PanelMax corner wiring duct, 3.35W x 2.57H (0.2mm x 5.0mm) slot width, light gray.
	Grounding, Bonding and Power
UGB2/0-414-12	Universal ground bar accepts #14 – #4 AWG wire in 12 wire ports and up to a 2/0 AWG main equipment grounding conductor with a compression or mechanical connector, 8.28" (210.3mm) length, 0.62" (15.7mm) width, 0.48" (12.2mm) height.
BS100445	Braided Bonding Strap, one-hole, insulated, 4.00" length x 1.06" width (101.6mm x 27.0mm).
F91-40-L	Ferrule, non-insulated, 4/0 AWG wire range, 250 kcmil (120.0mm²) Wire Size, 1.57 (40.0mm) pin length.
C120X150APT-22	Thermal transfer raised panel push button label, 1.20" W x 1.50" H, raised panel, white, 3 labels/row, 500 pc. package quantity.
R050X075X1J	Laser/ink jet, self-laminating Turn-Tell label, print-on area 0.25" (6.4 mm), clear with a white print-on area color, label is 0.50" wide and 0.75" long (12.7 x 19.1 mm), supports 18-14 AWG wire/cable. It has 12 of labels per row 84 labels per sheet, and comes in packages of 5000.
DAP4BC-G0-5	Data Access Port, 4-inch base, GFCI outlet, Category 5e coupler
VS-AVT-C08-L10	VeriSafe AVT device automates and simplifies the process of absence of voltage verification testing. Includes AVT test device equipped with 10 ft. Sensor leads, 8 ft. System cable, and industrial Lithium battery
	Networking
ISTPH6X2MTL	IndustrialNet Patch Cord, Category 6A, Shielded, 600V, RJ45 plug to RJ45 plug, Teal, 2 meter
CDPP8RG	IndustrialNet, 8-port DIN rail mount patch panel. Includes screws to attach faceplate and Ultimate ID labels and clear label covers.
FDME8RG	IndustrialNet 8-port DIN Rail Fiber Optic Enclosure provides enclosed fiber protection for terminated distribution style cabling and includes a PG21 or 3/4 NPT cable cord grip to secure fiber cable(s) exiting the enclosure.
UPS00100DC	Maintenance-free, No battery, 100 Watts, 24V DC Uninterruptible Power Supply (UPS)
FOJDZ12	50um OM4 12 Fibers, Indoor/Outdoor DDJ cable, Riser (OFNR-LS), LSZH
ISFCH6X04ATL-UG	Category 6A SE/LITP cable 4-pair 24/7 AWG stranded copper conductors CMR 600V rated Oil Res. LIV
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About this Configuration

Control panels are being packed with more gear causing challenges with overcrowding, susceptibility to noise, and challenging moves/adds/changes. This drawing lays out options to address these concerns.

Cable Protection and Management

Minimizing chaffing, cuts, and strains is paramount to achieve high reliability and designed performance. The key is securing, covering, and separating cables from hazards.

Electrical Noise Reduction and Space Savings

Mitigating electrical noise and utilizing 3D panel space facilitates higher density device designs to fit into tight panel layouts or lead to a smaller panel footprint.

Grounding & Bonding

Grounding and bonding is critical for reliable network communication, especially dissipating high frequency noise. Utilizing ground bars and bonding straps is a best practice for grounding.

Identification & Safety

Moves, adds, and changes need to be done correctly, efficiently, and safely. Identification is critical to guide personnel to make the right connections and prevent erroneous disconnects. Protect personnel by preventing contact with hazards while providing same capability.

Networking

Ethernet-enabled controls, drives, and sensing hardware are proliferating. Panels need to manage network cabling and devices while minimizing environmental impacts like heat, electrical noise, vibration, etc.

