



Use this drawing when:
 Designing the connectivity and physical infrastructure for a warehouse that contains conveyors, robots, and other equipment that requires power & network connections.

IoT Device Connectivity

I/O & Sensor Connectivity

Control Panel Connectivity

Industrial Physical Network

24" x 36" Universal Network Zone System with industrial switches. Redundant power supplies, UPS, copper and fiber cabling mgmt.

Uplink connection back to Industrial Distribution Frame

Wired Ethernet connection to Wireless Access Point

Zone Controller

Conveyor

Conveyor sensor Connections - Ethernet connectivity or hardware

Label Printer

Scan Tunnel Part ID & Scale

Color Coding Legend
 A-code (black)
 Enterprise (blue)
 Fiber (yellow)
 Industrial 600V (cyan)

BOM reference (Ref. number on back page)

PCD013-MARCH20-ENG



Warehouse Machinery
 Material Handling

Bill of Materials

Ref.	Part Number	Description
Fiber and Copper Cable		
1	FOJDZ12**	OM4 fiber, Dielectric Double Jacketed (indoor/outdoor), Riser, Low Smoke Zero Halogen, Multimode, 12 fiber
1	FSJD912**	OS2 fiber, Dielectric Double Jacketed (indoor/outdoor), Riser, Low Smoke Zero Halogen, Singlemode, 12 fiber
2	PUP6AV04BU-G	Copper Cable, Cat 6A, Vari-MaTriX, 4-pair, 23 AWG Solid, UTP, CMP, Blue, 1000ft reel
3	IFRH6C04BL-UG	Copper Cable, Industrial 600V, Category 6 4-pair, 23/1 AWG Solid, F/UTP, CMR, Black.1000ft reel
4	ISFCH6X04ATL-UG	Copper Cable, Industrial, Category 6A 4-pair, 24/7 AWG Stranded, SF/UTP, CM/CMX, 600V, Oil Res., Teal, 1000ft reel
Connectors, Cord sets, and Patch Cords		
5	CJ6X88TGBL	Category 6A, RJ45, 8-position, 8 wire, 10 Gb/s UTP Mini-com universal jack module, black
6	ISTPH6X2MTL	Patch cord, IndustrialNet™, Category 6A, shielded, 600V, RJ45 plug to RJ45 plug, teal, 2 meter.
6	ISTPHCH2MTL	Patch cord, IndustrialNet™, Category 5e, shielded, 600V, RJ45 plug to RJ45 plug, teal, 2 meter.
7	ICA3E13P2BL*M	M8 P/C, IndustrialNet™, 3-pin A-Code, Male to Female, PUR Jacket, Black
7	ICA4T15P2BL*M	M8 P/C, IndustrialNet™, 4-pin A-Code, Male to Unterminated, PUR Jacket, Black
7	ICA5T35P2BL*M	M12 P/C, IndustrialNet™, 5-pin A-Code, Female to Unterminated, PUR Jacket, Black
8	ICAM12DRJS	Category 5e, M12 D-code to RJ45 industrial adapter, panel mount
8	ICAM12XRJS	M12 X-Code Female to RJ45 Jack, industrial adapter, panel mount
9	ISPS5E44MFA	IndustrialNet™, 4-position, M12 D-code plug
9	ISPS6A88MFA	IndustrialNet™, 8-position, M12 X-Code plug
10	ICD22T1NNTL*M	IndustrialNet™ Cordset - M12 Male to Male D-code, Angled Connector, STP, TPE Jacket, Teal
10	ICX11T1NNTL*M	IndustrialNet™ Cordset - M12 Male to Male X-code, Angled Connector, STP, TPE Jacket, Teal
11	FP6X88MTG	TX6A, Category 6A UTP Field Term RJ45 Plug is a simple-to-attach plug for field termination of 4-pair unshielded twisted pair cable.
12	ICD14T1NNTL*M	M12 male D-Code, straight connector, RJ45 plug, STP, teal
Network Zone System		
13	Z23*	Pre-Configured Network Zone System, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Cat 6 UTP copper patch cords and jacks, (4) MMLC fiber patch cords with (6) adaptors, backplane and cable management. Available in mild steel, stainless steel or sloped versions and various levels of integration.
*Available in a variety of lengths.		
**Additional fiber counts available.		
Smart Panel Solutions Brochure (Literature No. CPCB186) available on www.panduit.com		

About this Configuration

With the continued extension of ethernet enabled devices and machines to the demanding environments of a warehouse/logistics floor space, industrial equipment has a growing need to be connected in a robust and smarter way. With Panduit, the deployment of this architecture becomes much easier. From overmolded cables, 600V ratings, shielded cable and connectivity, to cable management, and infrastructure solutions. Panduit has all the products needed to make your industrial network more secure and future ready.

Overmolded Cable

Overmolding cable is an injection molding process in which tow materials are bonded to combine the wire and connector into a single seamless piece. This process provides a more robust product for industrial environments. Leveraging Panduit's vast experience in molding results in a high-quality product that exceeds the standards. A wide variety of solutions are available with Panduit's overmolded technology.

600V Rated Cable

Network cabling is not designed or intended to carry high voltages. Network cables can be exposed to high voltage cabling in UL508A control panels, and near manufacturing machines. Panduit offers network cable solutions that meet the 600V Appliance Wire Material (AWM) requirements.