



2
Cat 6 & 6A cable
UTP, CMP (plenum)

1
Dielectric Double
Jacketed Fiber Cable

Uplink connection
back to Industrial
Distribution Frame

8
M12 Field
Term Plug, D
and X code for
field devices.

9
Category 5e D-Coded IP67 Overmolded Cordsets
Category 6a X-Coded IP67 Overmolded Cordsets

Right Angle M12 Straight M12 RJ45 Flying Leads

Female Male Female Male

7
M12 to RJ45
adaptors

4
Shielded
Jack Module

13
M12
X-code
Cordset

Wired Ethernet
connection to
Wireless Access
Point

10
Shielded Field
Terminable Plug Cat6A

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

14

Data Access Port

11
Patch Panel

3
IndustrialNet
Cat 5e, 6, & 6A
600V Cable

12
Duplex
Bulkhead
Adapter

5
600V Industrial
Patch Cords

6
A-Coded Overmolded
IP67 Cordsets

Straight M8 Straight M12 Flying Leads

Female Male Female Male

Process Skid

Control Panel Connectivity

← BOM reference
(Ref.) number on
back page

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
2	IFRH6C04BL-UG	Copper Cable, Industrial 600V, Category 6 4-pair, 23/1 AWG Solid, F/UTP, CMR, Black.1000ft reel
3	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		
4	CJS6X88TGY	Category 6A, RJ45, 10 Gb/s, 8-position, 8-wire universal shielded jack module w/integral shield.
5	ISTPH6X2MTL	Patch cord, IndustrialNet™, Category 6A, shielded, 600V, RJ45 plug to RJ45 plug, teal, 2 meter.
5	ISTPHCH2MTL	Patch cord, IndustrialNet™, Category 5e, shielded, 600V, RJ45 plug to RJ45 plug, teal, 2 meter.
6	ICA3E13P2BL*M	M8 P/C, IndustrialNet™, 3-pin A-Code, Male to Female, PUR Jacket, Black
6	ICA4T15P2BL*M	M8 P/C, IndustrialNet™, 4-pin A-Code, Male to Unterminated, PUR Jacket, Black
6	ICA5T35P2BL*M	M12 P/C, IndustrialNet™, 5-pin A-Code, Female to Unterminated, PUR Jacket, Black
7	ICAM12DRJS	Category 5e, M12 D-code Female to RJ45 industrial adapter, panel mount
7	ICAM12XRJS	Category 6a, M12 X-Code Female to RJ45 industrial adapter, panel mount
8	ISPS5E44MFA	IndustrialNet™, 4-position, M12 D-code plug
8	ISPS6A88MFA	IndustrialNet™, 8-position, M12 X-Code plug
9	ICD22T1NTL*M	IndustrialNet™ Cordset - M12 Male to Male D-code, Angled Connector, STP, TPE Jacket, Teal
9	ICX11T1NTL*M	IndustrialNet™ Cordset - M12 Male to Male X-code, Angled Connector, STP, TPE Jacket, Teal
10	FPS6X88MTG	TX6A Shielded Field Term RJ45 Plug is a simple to attach plug for field termination of 4-pair shielded twisted pair cable. Category 6A performance, compatible with 6 & 5e shielded systems.
11	CDPP8RG-S	IndustrialNet™, 8-port Shielded DIN rail mount patch panel
11	CADIN1IG	Single port Mini-Com DIN Rail Adapter accepts any single port Mini-Com Module
12	IAEBHC6	Category 6, IP67/68, RJ45, 8-wire black industrial bulkhead coupler with protective cover. Also available in unshielded/shielded jacks Cat5e, 6, 6A. Cat 6a shielded coupler coming soon.
13	ICX11T1NTL*M	M12 male to male X-Code, straight connector, STP, teal
Network Zone System		
14	Z23*	Pre-Configured Network Zone System, 24" x 36", stainless steel enclosure, for two industrial switches, includes (16) Cat 6 UTP copper patch cords and jacks, (4) MM LC 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

Food and Beverage applications require robust reliable network infrastructure for end point devices and network connections. Structured cabling with fiber or copper is fed into the zone enclosure which is engineered to accommodate the proper type of connection. The zone enclosure provides downlinks to control panels, OEM skids, and end devices as needed. These connections require different types of solutions based on environment conditions and the type of connection required.

Overmolded Solutions

Overmolded is an injection molding process in which two materials are bonded to combine the and connector in a single piece. This process provides a rugged connection that has an IP67 waterproof rating. Overmolded D-code and X-code are utilized for Ethernet network connections and A-code is used for end point connections such as sensors.

600V Rated Cable

Standard networking cable is not designed to be near high voltages. However, in industrial environments cable in control panels or near manufacturing machines are often in close contact. Using Panduit 600V rated solutions ensure the integrity of your network from high voltage interferences.