

**Preferred Parts for
Industrial**

North America



Industrial Network Infrastructure

The manufacturing plant floor is undergoing dramatic changes that require businesses to fully utilize industrial Ethernet through the plant floor. A reliable physical infrastructure is the foundation of network performance and critical to keep production running. Panduit's Industrial Network Infrastructure solution is aligned to industry standards for a variety of demanding industrial applications and environments. These replicable turnkey solutions result in reliable network performance across multiple plant locations. This preferred parts list features industrial network infrastructure solutions that are aligned to M.I.C.E environmental guidelines and reference popular configuration drawings that demonstrate typical industrial network designs. For the complete offering, visit www.panduit.com/industrialnetwork.



Table of Contents

Connectivity

Industrial Adapters and Patch Panels	3
IndustrialNet™ Connectors	4
Fiber Adapters and Patch Cords	4
Industrial Copper Patch Cords	5
Industrial Accessories	5
IndustrialNet™ M12 Overmolded D-Code Cordsets	6
IndustrialNet™ M12 Overmolded X-Code Cordsets	7
IndustrialNet™ Copper Cable for Category 5e, Category 6 and Category 6A Ethernet	8

Pre-Configured

Pre-Configured Micro Data Center (MDC)	9
Industrial Network Uninterruptible Power Supply (UPS) ...	9
Network Zone Systems	10
Universal Distribution Frames	11
Wireless Enclosures	11

Industrial Adapters and Patch Panels



CADIN1



CDPP8RG



FDME8RG

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
Mini-Com® DIN Rail Mount Adapter							
CADIN1BL	Mini-Com® DIN Rail Mount Adapter mounts to standard 35mm DIN rail and accepts any single port Mini-Com® Module, Black.	PCD002, PCD006, PCD009	Cabling Subsystems 1 and 2	—	1	—	—
CADIN1IG	Mini-Com® DIN Rail Mount Adapter mounts to standard 35mm DIN rail and accepts any single port Mini-Com® Module, International Gray.						
CADIN1IW	Mini-Com® DIN Rail Mount Adapter mounts to standard 35mm DIN rail and accepts any single port Mini-Com® Module, Off White.						
IndustrialNet™ DIN Rail Mount Copper Patch Panel							
CDPP8RG	8-port RJ45 DIN mounted patch panel	PCD002, PCD004, PCD006, PCD009, PCD012	Cabling Subsystems 1 and 2	1	1	1	1
IndustrialNet™ DIN Rail Mount Fiber Enclosure							
FDME8RG	8-port RJ45 DIN mounted patch panel	PCD003, PCD004	Cabling Subsystems 1 and 2	1	1	1	3

Popular Configuration Drawings (PCDs) demonstrate typical industrial network designs and best practice solutions with illustrated design considerations. Reference the PCD library at www.panduit.com/pcds when upgrading an existing network or beginning a new network design to improve network reliability and performance.

IndustrialNet™ Connectors



IAEBH5E, IAEBH6, IAEBHC5E, IAEBHC6

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
Industrial Bulkhead Connector with Protective Cover							
IAEBH5E	Category 5e, 8-position, 8-wire industrial connector with protective cover.	PCD004, PCD006, PCD009	Cabling Subsystems 1 and 2	3	3	2	2
IAEBH5ES	Category 5e, 8-position, 8-wire shielded industrial connector with protective cover.						
IAEBH6	Category 6, RJ45, 8-position, 8-wire, Black industrial bulkhead connector with protective cover.						
IAEBH6S	Category 6, RJ45, 8-position, 8-wire shielded, Black industrial bulkhead connector with protective cover.						
IAEBH6X	Industrial Ethernet Connector Category 6A, UTP.						
IAEBH6XS	Industrial Ethernet Connector Category 6A, STP.						

Industrial Bulkhead Coupler with Protective Cover							
IAEBHC5E	Industrial Ethernet Coupler Category 5e, UTP.	PCD004, PCD006, PCD009	Cabling Subsystems 1 and 2	3	3	2	2
IAEBHC6	Industrial Ethernet Coupler Category 6, UTP.						

Industrial Mini-Com® Coupler Module							
IAEBHUSBAA	IndustrialNet™ Mini-Com® USB 2.0, female A to female A coupler module.	PCD004, PCD006, PCD009	Cabling Subsystems 1 and 2	3	3	2	2



ICAM12DRJS

Industrial M12 Connectors							
ICAM12DRJS	Category 5e, M12 D-code to RJ45 industrial adapter, panel mount.	PCD001, PCD002, PCD006, PCD009	Cabling Subsystems 1 and 2	1	1	1	2

Industrial RJ45 Plugs							
ISPS5E44MFA	4-position, IndustrialNet™ M12 D-Code Plug, for use with stranded 26/7 – 22/7 AWG Category 5e, UTP copper cable.	PCD001, PCD002, PCD006, PCD009	Cabling Subsystem 1	3	3		
ISPS688FA	8-position, IndustrialNet™ RJ45 Plug, field terminable.			1	1	1	2
ISPS688FAS	8-position, IndustrialNet™ RJ45 Plug, field terminable.						
ISPS6A88MFA	Category 6A, IndustrialNet™, M12 X-Code Plug, field terminable.			3	3		



ISPS688FAS

Fiber Adapter and Patch Cords



IAEF617P-NM1



IAEF7JMA

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
IAEF617P-NM1	Industrial LC to pigtail multimode duplex pigtail – 62.5/125µm.	—	Cabling Subsystems 1 and 2	3	3	2	3
IAEF7JMA	Industrial LC fiber optic bulkhead adapter.						

Industrial Copper Patch Cords



ISTPHCH1MTL

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
IndustrialNet™ RJ45 Copper Patch Cords							
ISTPHCH*MTL	Shielded, Category 5e, 600V, RJ45 plug to RJ45 plug.	PCD001, PCD002, PCD006, PCD009, PCD012	Cabling Subsystems 1 and 2	1	1	1	2

IndustrialNet™ 600V Patch Cords

ISTPH6X*MTL	Shielded, Category 6A, 600V rated, RJ45 plug to RJ45 plug.	—	Cabling Subsystem 1	1	1	1	2
-------------	--	---	---------------------	---	---	---	---

*Lengths available in meters: 0.3, 0.6, 1, 2, 3, 5, 10, 15, 20.
Additional color option available: replace TL (Teal) with BL (Black).

Industrial Grade Patch Cords with Dust Caps



ISTPCH1MBLY,
ISTPSP1MBL,
IUTPCH3BLY,
IUTPSP3BL

ISTPCH*MBLY	Shielded Category 5e bulkhead RJ45 patch cord with caps.	—	Cabling Subsystems 1 and 2	3	3	2	2
ISTPSP*MBL							
IUTPCH*BLY	UTP Category 5e stranded cable with modular plugs.	—	Cabling Subsystems 1 and 2	3	3	2	2
IUTPCH*BLY							
IUTPSP*BL							
IUTPSP*BL							

*Lengths available in feet: 1, 2, 3, 5, 7

Modular Plugs

MPI588T	UTP Category 5e modular plug with bulkhead, 8-position, 8-wire, for use with 24 AWG, shielded copper cable.	—	Cabling Subsystems 1 and 2	3	3	2	2
MPSI588T	Shielded Category 5e modular plug with bulkhead, 8-position, 8-wire, for use with 24 AWG, Category 5e, shielded copper cable.						

Industrial Accessories



IAEFP2-2G



IAPNG5EWH

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
IndustrialNet™ Faceplates							
IAEFP1	Vertical faceplate accepts one IndustrialNet™ Bulkhead Connector or Adapter.	—	Cabling Subsystems 1 and 2	—	3	—	—
IAEFP2-2G	Double gang, vertical faceplate accepts two IndustrialNet™ Bulkhead Connectors or Adapters.						
IndustrialNet™ Data Access Port							
IAPNG5EWH	IndustrialNet™ GFCI Data Access Port, Category 5e coupler and blank, White.	PCD004, PCD006, PCD009	Cabling Subsystem 1 and 2	—	2	1	—

Popular Configuration Drawings (PCDs) demonstrate typical industrial network designs and best practice solutions with illustrated design considerations. Reference the PCD library at www.panduit.com/pcds when upgrading an existing network or beginning a new network design to improve network reliability and performance.

IndustrialNet™ M12 Overmolded D-Code Cordsets



M12, Male D-Code, Straight Connector



RJ45 Modular Plug



M12, Male D-Code, Angled Connector

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
Shielded, Male to Male							
ICD11T1NTL*M	Male to male D-code, straight connector, STP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2
Shielded, Female to STP							
ICD35T2NTL*M	Female D-code, straight connector, STP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2
Unshielded, Male to Male							
ICD11T2NTL*M	Male to male D-code, straight connector, UTP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2
Unshielded, Male to UTP							
ICD15T2NTL*M	Male D-code, straight connector, UTP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2
Shielded, Male to RJ45 Plug							
ICD14T1NTL*M	Male D-code, straight connector, RJ45 Plug, STP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2
Shielded, Angled, Male to Male							
ICD22T1NTL*M	Male to Male D-code, angled connector, STP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2
Shielded, Angled, Male to STP							
ICD25T2NTL*M	Male D-code, angled connector, STP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2
Shielded, Bulkhead Female to STP							
ICD45T1NTL*M	Bulkhead female D-code, STP, TPE jacket, Black.	—	Cabling Subsystem 1	3	3	2	2
Shielded, Bulkhead Female to RJ45 Plug							
ICD44T1NTL*M	Bulkhead female D-code, RJ45 plug, STP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2

*Lengths available in meters: 0.5, 1, 2, 3, 5, 10, 15, 20.

IndustrialNet™ M12 Overmolded X-Code Cordsets



Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
Shielded, Male to Male							
ICX11T1NTL*M	Male to male x-code, straight connector, STP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2
Shielded, Male to STP							
ICX15T1NTL*M	Male x-code, straight connector, STP, TPE jacket, Teal.	—	Cabling Subsystem 1	3	3	2	2
Shielded, Bulkhead Female to STP							
ICX45T1NBL*M	Bulkhead female x-code, STP, TPU jacket, Black.	—	Cabling Subsystem 1	3	3	2	2
Shielded, Bulkhead Female to RJ45 Plug							
ICX44T1NBL*M	Bulkhead female x-code, RJ45 Plug, STP, TPU jacket, Black.	—	Cabling Subsystem 1	3	3	2	2

*Lengths available in meters: 0.5, 1, 2, 3, 5, 10, 15, 20.

Popular Configuration Drawings (PCDs) demonstrate typical industrial network designs and best practice solutions with illustrated design considerations. Reference the PCD library at www.panduit.com/pcds when upgrading an existing network or beginning a new network design to improve network reliability and performance.

IndustrialNet™ Copper Cable for Category 5e, Category 6 and Category 6A Ethernet

	Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
	IUC6C04ABL-CEG	Category 6, industrial, 4-pair, U/UTP copper cable; conductors are 24/7 AWG construction with HDPE insulation, twisted in pairs, surrounded by a PVC jacket, Black.	PCD001, PCD002, PCD007, PCD010					
IUC6C04ABL-CEG	ISX6004AYL-LED	Category 6, industrial, 4-pair, S/FTP copper cable. Conductors are 24/7 AWG construction with PE insulation; twisted in pairs, surrounded by a metallic foil with a braided shield and protected by a flame-retardant and halogen free (PUR) jacket, Yellow.	PCD006, PCD009	Cabling Subsystem 1, 2 and 3	2			
	ISX6004AYL-LED	Category 6A, industrial, 4-pair, S/FTP copper cable. Conductors are 24/7 AWG construction with PE insulation; twisted in pairs, surrounded by a metallic foil with a braided shield and protected by a flame-retardant and halogen free (PUR) jacket, Yellow.	—	Cabling Subsystem 1, 2 and 3	3			
ISX6004AYL-LED	ISFCH5C02ATL-XG	Category 5e, industrial (CM/CMX outdoor), 2-pair, SF/UTP copper cable; stranded copper conductors are 24/7 AWG with HDPE insulation, covered with a TPE jacket; rated for 600 V panel or on-machine applications when the space is shared with high voltage power cables.	PCD002, PCD006, PCD009	Cabling Subsystem 1, 2 and 3	2	—	2	2
	ISFCH5C02ATL-XG	Category 5, Industrial (CM/CMX outdoor), 4-pair, SF/UTP copper cable; conductors are 24/7 AWG with HDPE insulation, covered with a TPE jacket; rated for 600V panel or on-machine applications when the space is shared with high voltage power cables.						
ISFCH5C02ATL-XG	ISFCH5C04ATL-XG	Category 5, Industrial (CM/CMX outdoor), 4-pair, SF/UTP copper cable; conductors are 24/7 AWG with HDPE insulation, covered with a TPE jacket; rated for 600V panel or on-machine applications when the space is shared with high voltage power cables.		Cabling Subsystem 1, 2 and 3	3			
	ISFCH5C04ATL-XG	Category 6A, industrial, 4-pair, 24/7 AWG Stranded, SF/UTP, CMR, rated for 600V panel or on-machine applications when the space is shared with high voltage power cables, Oil Res., UV Res.		Cabling Subsystem 1, 2 and 3	3			
ISFCH5C04ATL-XG	ISFCH6X04ATL-UG	Category 6A, industrial, 4-pair, 26/7 AWG Stranded, SF/UTP, CMR, rated for 600V panel or on-machine applications when the space is shared with high voltage power cables, Oil Res., UV Res.	—	Cabling Subsystem 1, 2 and 3	3			
	ISFCH6X04ATL-UG	Category 6A, industrial, 4-pair, 26/7 AWG Stranded, SF/UTP, CMR, rated for 600V panel or on-machine applications when the space is shared with high voltage power cables, Oil Res., UV Res.		Cabling Subsystem 1, 2 and 3	3			
ISFCH6X04ATL-UG	ISFX5502ATL-LED	Category 5e, industrial, 2-pair, SF/UTP copper cable, stranded copper conductors are 24/7 AWG with PE insulation; covered with a PUR jacket, cable tested to support high flex and torsion applications.	PCD002	Cabling Subsystem 1, 2 and 3	2			
	ISFX5502ATL-LED							

Pre-Configured Micro Data Center (MDC)



MDC79 and MDC79D

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
MDC79	42U, two side panels, network cabling, patch panels, cable management, grounding, and casters.	PCD001, PCD007, PCD012	Cabling Subsystem 3	1	1	*	2
MDC79D	42U, two side panels, network cabling, patch panels, cable management, grounding, casters, shock pallet and ramp.						

*Dependent on specific installation, contact technical support.

Industrial Network Uninterruptible Power Supply (UPS)



UPS00100DC



UPS003LSM

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
UPS00100DC	Maintenance-free, No battery, 100 Watts, 24V DC	PCD001, PCD004	Cabling Subsystem 1, 2 and 3	1	1	1	—
UPS003LSM	UPS Load Sense Module						

Popular Configuration Drawings (PCDs) demonstrate typical industrial network designs and best practice solutions with illustrated design considerations. Reference the PCD library at www.panduit.com/pcds when upgrading an existing network or beginning a new network design to improve network reliability and performance.

Network Zone Systems



Z23U

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
24" x 36" Universal Network Zone; for Two Industrial Switches							
Z23U-S24	Category 6 UTP, mild steel, redundant power supplies.	PCD006, PCD009	Cabling Subsystem 1 and 2	1	2	*	1
Z23U-S24S	Category 6A STP, mild steel, redundant power supplies.						2
Z23U-S25	Category 6 UTP, mild steel, redundant power supplies with one maintenance-free UPS.						1
Z23U-S25S	Category 6A STP, mild steel, redundant power supplies with one maintenance-free UPS.						2
Z23U-S26	Category 6 UTP, mild steel, redundant power supplies with battery UPS and PoE.						1
Z23U-S26S	Category 6A STP, mild steel, redundant power supplies with battery UPS and PoE.						2



Z22U

24" x 24" Universal Network Zone; for One Industrial Switch							
Z22U-S14	Category 6 UTP, mild steel, redundant power supplies.	PCD002, PCD003, PCD009	Cabling Subsystem 1 and 2	1	2	*	1
Z22U-S14S	Category 6A STP, mild steel, redundant power supplies.						2
Z22U-S15	Category 6 UTP, mild steel, redundant power supplies with one maintenance-free UPS.						1
Z22U-S15S	Category 6A STP, mild steel, redundant power supplies with one maintenance-free UPS.						2
Z22U-S16	Category 6 UTP, mild steel, redundant power supplies with battery UPS and PoE.						1
Z22U-S16S	Category 6A STP, mild steel, redundant power supplies with battery UPS and PoE.						2



Z23C-S



Z22C-S

Universal Network Zone Enclosures							
Z23C-S	24" x 36" Category 6 UTP, mild steel.	PCD006	Cabling Subsystem 1 and 2	1	2	1	1
Z22C-S	24" x 24" Category 6 UTP, mild steel.	PCD003					2



ZFLEX1



ZFLEX2

HD Flex Cassette Accessories for Network Zone Systems							
ZFLEX1	Mounting bracket for one 6-port fiber cassette in network zone systems Z22X-X and Z23X-X.	—	Cabling Subsystem 1 and 2	1	1	1	1
ZFLEX2	Mounting bracket for two 6-port fiber cassette in network zone systems Z22X-X and Z23X-X.						1

*Dependent on specific installation, contact technical support.

Universal Distribution Frames



ZDF242430

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
12U Industrial Distribution Frame; for Two Access or Two Distribution Switches							
ZDF242430	Mild steel, two 48-port patch panels, fiber tray, fiber spools, back panels, 10" DIN rail, 30" length of duct.	—	Cabling Subsystem 2 and 3	1	2	*	—



ZDF48

26U Universal Distribution Frame for Six Industrial DIN Mount Switches							
ZDF48-RA	Mild steel, two 48-port patch panels, fiber tray, fiber spools, back panels, 10" DIN rail, 30" length of duct; two duplex power receptacles and four power cables.	PCD001, PCD010, PCD012	Cabling Subsystem 2 and 3	1	2	*	—

*Dependent on specific installation, contact technical support.

Wireless Enclosures



PZNWE12

Part Number	Part Description	Preferred Configuration Drawing	TIA 1005 Location	M	I	C	E
Power over Ethernet Applications							
PZNWE12	Zone cabling wireless enclosure 12" x 12" NEMA 4X rated (305mm x 305mm).	—	Cabling Subsystem 1	1	2	*	—
Traditional AC Power Applications							
PZNWE14	Zone cabling wireless enclosure 14" x 12" NEMA 4X rated (356mm x 305mm).	—	Cabling Subsystem 1	1	2	*	—

Popular Configuration Drawings (PCDs) demonstrate typical industrial network designs and best practice solutions with illustrated design considerations. Reference the PCD library at www.panduit.com/pcds when upgrading an existing network or beginning a new network design to improve network reliability and performance.

*Dependent on specific installation, contact technical support.



PANDUIT[®]

Panduit Corp.
World Headquarters
Tinley Park, IL 60487

800.777.3300

www.panduit.com