

TIA-1005-A M.I.C.E. Rated Product Selection Guide



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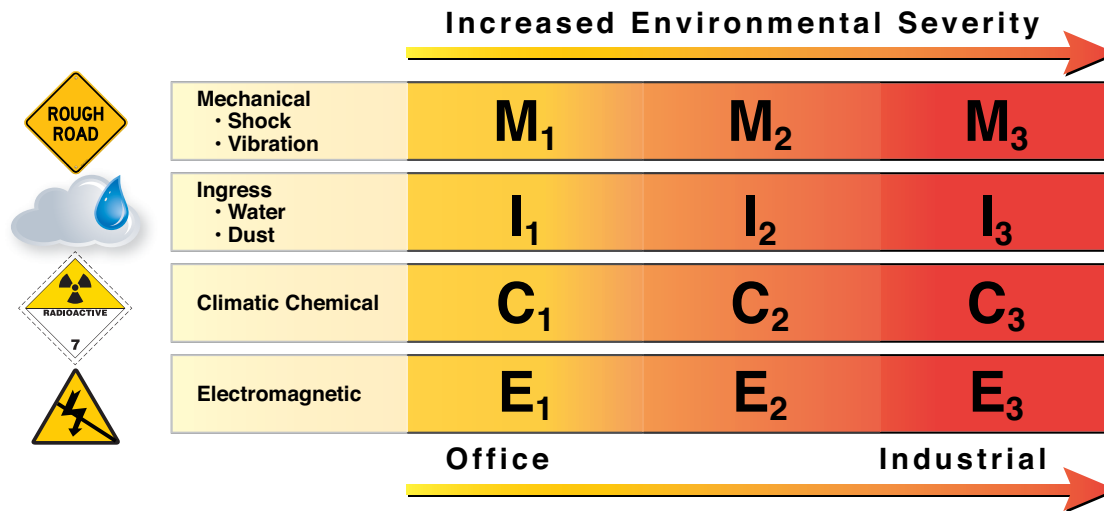
When designing the physical infrastructure to support network communications in a manufacturing location, TIA-1005-A is a standard that must be considered.

According to the TIA-1005-A standard, there are three basic types of industrial areas:

- Factory Floor
- Work Area
- Automation Island

Designing for the manufacturing environment requires an intimate knowledge of these areas to ensure the infrastructure supports the different environments found on the plant floor. Considerations such as shock and vibration, handling of water or dust, temperature, washdown areas, exposure to acids or oil mixtures and electromagnetic noise must be taken into account when selecting solutions to support these harsh environments.

Environmental classifications and ratings based on Mechanical, Ingress, Climatic/Chemical, Electro Magnetic (M.I.C.E.) attributes provide a method of categorizing the environmental classes required for each of the industrial areas and are rated as 1 = low, 2 = medium, and 3 = high.



Whether you are designing for the factory floor, work area or automation island, Panduit offers solutions that meet the TIA-1005-A M.I.C.E. guidelines. This selection guide provides the industrial physical infrastructure designer with detailed M.I.C.E. information about each of Panduit's network products typically considered in industrial environments. For an expanded offering of level 1 parts that may be used in your industrial network, visit panduit.com.

For additional information on M.I.C.E. ratings contact our technical support team at techsupport@panduit.com or call 800-777-3300.

For more information about the TIA-1005-A standard, visit tiaonline.org.

		M.I.C.E. (Final Rating)		Detailed M.I.C.E. Rating																																						
				Mechanical										Ingress		Climatic/Chemical						EMI																				
				M ₂					M ₃					I ₂	I ₃	C ₂			C ₃			F ₁	E ₂	F ₃																		
LEGEND:	NOTE:	M	I	C	E	shock 100 ms-1	vibration 7mm/20ms-1	*Tensile Connected 300N	compression 1100N/150mm	impact resistance 10J	torsion	shock 250 ms-1	vibration 15mm/50 ms-1	2	*Tensile Connected 2200N/150mm	compression 30J	impact resistance	torsion	IP 54/65	IP 67	operation temp. -25°C to +70°C	temp. change 1,0 °C/min	sun radiation See C3	oil resistance < 5.0 ppm	res. liquid chemicals	res. gaseous agents	operation temp. -40°C to +70°C	temp. change 3,0 °C/min	sun radiation 1120 W/m²	oil resistance < 500 ppm	res. liquid chemicals	res. gaseous agents	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field							
Part Number	Product Description																																									
Copper Cable																																										
Category 7																																										
PSM7004BU-KEM	Copper cable, Category 7, 4-pair, 23 AWG, S/FTP, LSZH, Blue, Euro pallet, 3280 ft./1000m reel.	2	—	2	2	●	●	—	●	●	●								—			●		●	c	c	●		●					●		●						
PSMD7004BL-LED	Copper cable, MUD-resistant, Category 7, 4-pair, 22 AWG stranded, S/FTP, LSZH (IEC 60332-3), SHF2, Black, Euro pallet, 1640 ft./500m reel.	2	—	2	2	●	●	—	●	●	●								—			●		●	c	c	●		●							●		●				
PSMDA7004BL-LED	Copper cable, armored, MUD-resistant, Category 7, 4-pair, 22 AWG stranded, S/FTP, LSZH (IEC 60332-3), SHF2, Black, Euro pallet, 1640 ft./500m reel.	2	—	2	2	●	●	—	●	●	●								—			●		●	c	c	●		●								●		●			
Category 6A																																										
ISX6X04A*-LED	Copper cable, industrial, Category 6A 4-pair, 24/7 AWG stranded, S/FTP, PUR, 1640 ft./500m reel.	2	—	2	2	●	●	—	●	●	●								—			●		●	c	c	●		●								●		●			
ISFCH6X04A*-UG	Copper cable, industrial, 600 V, Category 6A, High Flex, 4-pair, 24/7 AWG stranded, SF/UTP, CM, 1000 ft./305m reel.	2	—	2	2	●	●	—	●	●	●								—			●		●	c	c	●		●									●		●		
ISFCH6X04B*-UG	Copper cable, industrial, 600 V, Category 6A, High Flex, 4-pair, 26/7 AWG stranded, SF/UTP, CM, 1000 ft./305m reel.	2	—	2	2	●	●	—	●	●	●								—			●		●	c	c	●		●									●		●		
PUP6AHD04*-G	Copper cable, Category 6A, 4-pair, 23 AWG stranded, UTP, CMP, 1,000 ft./305m reel.	1	—	1	1	x	—	x	x	x	x								—		x	x	x	x	x	x											●					
Category 6																																										
IFRH6C04BL-UG	Copper cable, industrial, 600 V, Category 6, 4-pair, 23/1 AWG, F/UTP, CMR, Black, 1000 ft./305m reel.	2	—	2	2	●	●	—	●	●	●								—		-20	●		●	c	c			●									●		●		
Category 5e																																										
ISFCH5C02A*-XG	Copper cable, industrial 600 V, Category 5e, High Flex, 2-pair, 24/7 AWG stranded, SF/UTP, CM, 1000 ft./305m reel.	2	—	2	2	●	●	—	●	●	●								—			●		●	c	c	●		●									●		●		
ISFCH5C04A*-XG	Copper cable, industrial 600 V, Category 5e, High Flex, 4-pair, 24/7 AWG stranded, SF/UTP, CM, 1000 ft./305m reel.	2	—	2	2	●	●	—	●	●	●								—			●		●	c	c	●		●										●		●	
ISFX5502A*-LED	Copper cable, industrial, Category 5e, 2-pair, 24/7 AWG stranded, SF/UTP, PUR, 1640 ft./500m reel.	2	—	2	2	●	●	—	●	●	●								—			●		●	c	c	●		●										●		●	
IFRH5C04*-UG	Copper cable, industrial, 600 V, Category 5e, 4-pair, 24/1 AWG solid, F/UTP, CMR, 1000 ft./305m reel.	2	—	2	2	●	●	—	●	●	●								—		-20	●		●	c	c			●										●		●	
IURHT5C04*-UG	Copper cable, industrial 600 V PLTC, Category 5e, 4-pair, 22/1 AWG, U/UTP, CMR, 1000 ft./305m reel.	2	—	2	1	●	●	—	●	●	●								—		-20	●		●	c	c			●									●		●		
Single Pair Ethernet T1-L																																										
SP-SFCS11G-CEG	Single Pair Ethernet shielded copper cable, 18/7 AWG stranded, S/FTP, CM/CMR, 1000 ft./305m reel in a box.	—	—	—	—																																					

*Available in multiple colors.

		Detailed M.I.C.E. Rating																																	
		M.I.C.E. (Final Rating)				Mechanical										Ingress		Climatic/Chemical								EMI									
						M ₂					M ₃					I ₂	I ₃	C ₂				C ₃				F ₁	E ₂	F ₃							
LEGEND:	NOTE:	M	I	C	E	shock	vibration	*Tensile Connected	compression	impact resistance	torsion	shock	vibration	*Tensile Connected	compression	impact resistance	torsion	IP 54/65	IP 67	operation temp.	temp. change	sun radiation	oil resistance	res. liquid chemicals	res. gaseous agents	operation temp.	temp. change	sun radiation	oil resistance	res. liquid chemicals	res. gaseous agents	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field	
• = Acceptable for use in Environment	In the case a lower M.I.C.E. rated part is needed to be used in a higher M.I.C.E. rated environment please contact Tech Support for further guidance on the application.					100 ms-1	7mm/20ms-1	300N	1100N/150mm	10J		250 ms-1	15mm/50 ms-1	2	2200N/150mm	30J				-25°C to +70°C	1,0 °C/min	See C3	< 5,0 ppm			-40°C to +70°C	3,0 °C/min	1120 W/m ²	< 500 ppm						
x = Not Acceptable for use in Environment	*Tensile Connected: This aspect of environmental classification is installation specific and should be considered in association with IEC 61918 and the appropriate component specification. The 300 and 500 N numbers were used as a reference to differentiate the levels.																																		
- = Not Applicable																																			
c = Contact Tech Support																																			
Part Number	Product Description																																		

COPPER CONNECTIVITY

Category 6A

IAEBH6XS	IndustrialNet™ Variant 1 Bulkhead, Category 6A, Shielded Connector.	3	3	2	2							4	●	-	●	●	●		●	-20	●	●	c	c		●							●		
IAEBH6X	IndustrialNet™ Variant 1 Bulkhead, Category 6A, UTP Connector.	3	3	2	1							●	●	-	●	●	●		●	-20	●	●	c	c		●							●		
IAEBHC6XS	IndustrialNet™ Variant 1 Shielded Bulkhead Connector	3	3	2	1							●	●	-	●	●	●		●	-20	●	●	c	c		●							x		
CJSM6X88TG	Category 6A, RJ45, 8-position, 8-wire, marine universal module.	2	1	1	2	●	●	-	x	x	-							x		x	x	x	x	x	●									●	
CJ6X88TG*	Category 6A, RJ45, 8-position, 8-wire, IP 40, universal module.	1	1	1	1	x	x	x	x	x	x							x		x	x	x	x	x	x									●	
ISPS6A88MFA	IndustrialNet™, Category 6A, Field Terminable, M12 X-Code Plug.	3	3	1	2							●	●	-	●	●	-		●	●						●	●	●	●	c					●

Category 6

IAEBH6S	IndustrialNet™ Variant 1 Bulkhead, Category 6, Shielded Connector.	3	3	2	2							●	●	-	●	●	●		●	-20	●	●	c	c		●							●
IAEBH6	IndustrialNet™ Variant 1 bulkhead, Category 6, UTP Connector.	3	3	2	1							●	●	-	●	●	●		●	-20	●	●	c	c		●							●
IAEBHC6	IndustrialNet™, Category 6, UTP Coupler Connector.	3	3	2	1							●	●	-	●	●	●		●	-20	●	●	c	c		●							●

Category 5e

IAEBH5ES	IndustrialNet™ Variant 1 Bulkhead, Category 5e, Shielded Connector.	3	3	2	2							●	●	-	●	●	●		●	-20	●	●	c	c		●							●		
IAEBH5E	IndustrialNet™ Variant 1 Bulkhead, Category 5e, UTP Connector.	3	3	2	1							●	●	-	●	●	●		●	-20	●	●	c	c		●							●		
IAEBHC5E	IndustrialNet™ Variant 1 Bulkhead, Category 5e, UTP Coupler Connector.	3	3	2	1							●	●	-	●	●	●		●	-20	●	●	c	c		●							●		
MPSI588T	Category 5e, 24 AWG, shielded modular plug with bulkhead.	3	3	2	2							●	●	-	●	●	●		●	-20	●	●	c	c		●							●		
MPI588T	Category 5e, 24 AWG, shielded modular plug with bulkhead.	3	3	2	2							●	●	-	●	●	●		●	-20	●	●	c	c		●							●		
ISPS5E44MFA	IndustrialNet™, Category 5e, M12 D-Code, Field Terminable Modular Plug.	3	3	1	2							●	●	-	●	●	-		●	●						●	●	●	●	c					●

*Available in multiple colors.

(continued)

LEGEND: • = Acceptable for use in Environment x = Not Acceptable for use in Environment - = Not Applicable c = Contact Tech Support	NOTE: In the case a lower M.I.C.E. rated part is needed to be used in a higher M.I.C.E. rated environment please contact Tech Support for further guidance on the application. *Tensile Connected: This aspect of environmental classification is installation specific and should be considered in association with IEC 61918 and the appropriate component specification. The 300 and 500 N numbers were used as a reference to differentiate the levels.	Detailed M.I.C.E. Rating																																		
		M.I.C.E. (Final Rating)				Mechanical									Ingress		Climatic/Chemical						EMI													
		M	I	C	E	M ₂			M ₃			I ₂	I ₃	C ₂			C ₃			E ₁	E ₂	E ₃														
Part Number	Product Description	shock	vibration	*Tensile Connected	compression	impact resistance	torsion	shock	vibration	*Tensile Connected	compression	impact resistance	torsion	IP 54/65	IP 67	operation temp.	temp. change	sun radiation	oil resistance	res. liquid chemicals	res. gaseous agents	operation temp.	temp. change	sun radiation	oil resistance	res. liquid chemicals	res. gaseous agents	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field						
Fiber Distribution Cable																																				
FSJD912	9µm OS2 12 Fibers, Indoor/Outdoor DDJ cable, Riser (OFNR-LS), LSZH.	3	1	3	3																															
FOJDZ12	50µm OM4 12 Fibers, Indoor/Outdoor DDJ cable, Riser (OFNR-LS), LSZH.	3	1	3	3																															
Pre-Configured Micro Data Center																																				
MDC79	Pre-configured micro data center, 42 RU, includes two side panels, network cabling, patch panels, cable management, grounding, and casters.	-	1	c	2											x																				
MDC79D	Pre-configured micro data center, 42 RU, includes two side panels, network cabling, patch panels, cable management, grounding, casters, shock pallet and ramp.	-	1	c	2											x																				
MDC82NN	NEMA Type 12, IP55, single hinge front door with windowed glass, single hinge rear door, solid side panel (2), 42 RU, network cabling, patch panels, cable management, grounding, and casters. Color Light Gray. Dimensions: 78.7" H x 27.6" W x 47.2" D (2000mm x 700mm x 1200mm).	1	2	1	2	x	x																													
MDC82NL	NEMA Type 12, IP55, single hinge front door with windowed glass, single hinge rear door, solid side panel (1), side panel with cutout for 20k BTU AC (1), 42 RU, network cabling, patch panels, cable management, grounding, and casters. Color Light Gray. Dimensions: 78.7" H x 27.6" W x 47.2" D (2000mm x 700mm x 1200mm).	1	2	1	2	x	x																													
Pre-Configured Industrial Distribution Frames																																				
ZDF242430	Pre-configured industrial distribution frame enclosure, 12U, ready for two access or two distribution switches.	-	2	c	-																															
ZDF242430-6	Pre-configured industrial distribution frame enclosure, 12U, 316 stainless steel, ready for two access or two distribution switches.	-	2	c	-																															
ZDF48-RA	Pre-configured industrial distribution frame enclosure ready for two access and two distribution switches.	-	2	c	-																															
ZDF48-6RA	Pre-configured industrial distribution frame enclosure, 316 stainless steel, ready for two access and two distribution switches.	-	2	c	-																															
ZDF24-S25	Universal distribution frame 12U for two industrial switches, fiber tray, (1) 48-port patch panel, (1) 4U DIN mount bracket, (1) Maintenance-free UPS, redundant supplies AC to DC, terminal blocks, wiring for 120 V AC input.	-	2	c	-																															

*Available in multiple colors. **Available in multiple lengths. ***Available in multiple colors and lengths. ****Available in multiple colors and fiber counts. ^Available in multiple configurations and lengths.

		Detailed M.I.C.E. Rating																																
		M.I.C.E. (Final Rating)				Mechanical										Ingress		Climatic/Chemical						EMI										
		M	I	C	E	M ₂					M ₃					I ₂	I ₃	C ₂			C ₃			E ₁	E ₂	E ₃								
						shock	vibration	*Tensile Connected	compression	impact resistance	torsion	shock	vibration	*Tensile Connected	compression	impact resistance	torsion	IP 54/65	IP 67	operation temp.	temp. change	sun radiation	oil resistance	res. liquid chemicals	res. gaseous agents	operation temp.	temp. change	sun radiation	oil resistance	res. liquid chemicals	res. gaseous agents	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field
						100 ms-1	7mm/20ms-1	300N	1100N/150mm	10J		250 ms-1	15mm/50 ms-1	2	2200N/150mm	30J				-25°C to +70°C	1,0 °C/min	See C3	< 5,0 ppm			-40°C to +70°C	3,0 °C/min	1120 W/m ²	< 500 ppm					
		NOTE: In the case a lower M.I.C.E. rated part is needed to be used in a higher M.I.C.E. rated environment please contact Tech Support for further guidance on the application.																																
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Part Number	Product Description																																	
Pre-Configured Industrial Distribution Frames (continued)																																		
ZDF48-S65	Universal distribution frame 26U for six industrial switches, fiber tray, (3) 48-port patch panels, (3) 4U DIN mount brackets, (3) Maintenance-free UPSs, redundant supplies AC to DC, terminal blocks, wiring for 120 V AC input.	-	2	c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	x	•	•	•	•	•								-
Network Zone System																																		
24" x 24" Enclosures – Category 6A Connectivity and Fiber Uplink Patch Cords and Adapters																																		
Z22C-SS	Pre-configured network zone system, 24" x 24", mild steel enclosure, for two industrial switches, includes (8) Category 6A STP copper patch cords and jacks, (2) MM LC fiber patch cords with (6) LC adapters, backplane and cable management.	-	2	c	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	x	•	•	•	•	•								•
Z22U-S14S	Universal network zone system, 24" x 24", mild steel enclosure, for one industrial switch, includes (8) Category 6A STP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies.	-	2	c	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	x	•	•	•	•	•								•
Z22U-S15S	Universal network zone system, 24" x 24", mild steel enclosure, for one industrial switch, includes (8) Category 6A STP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters, redundant power supplies and maintenance-free UPS.	-	2	c	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	x	•	•	•	•	•								•
24" x 24" Enclosures – Category 6 Connectivity and Fiber Uplink Patch Cords and Adapters																																		
Z22C-S	Pre-Configured network zone system, 24" x 24", mild steel enclosure for two industrial switches, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber patch cords with (6) LC adapters, backplane and cable management.	-	2	c	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	x	•	•	•	•	•								•
Z22C-6	Pre-Configured network zone system, 24" x 24", 316 stainless steel enclosure, for two industrial switches, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber patch cords with (6) LC adapters, backplane and cable management.	-	2	c	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	x	•	•	•	•	•								•
Z22U-S14	Universal network zone system, 24" x 24", mild steel enclosure, for one industrial switch, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies.	-	2	c	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	x	•	•	•	•	•								•
Z22U-S15	Universal network zone system, 24" x 24", mild steel enclosure, for one industrial switch, includes (8) Category 6 UTP copper patch cords and jacks, (2) MM LC fiber uplink patch cords with (6) adapters, redundant power supplies and maintenance-free UPS.	-	2	c	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	x	•	•	•	•	•								•

*Available in multiple colors. **Available in multiple lengths. ***Available in multiple colors and lengths. ****Available in multiple colors and fiber counts. ^Available in multiple configurations and lengths.

		M.I.C.E. (Final Rating)		Detailed M.I.C.E. Rating																																
				Mechanical								Ingress		Climatic/Chemical							EMI															
				M ₂				M ₃				I ₂	I ₃	C ₂			C ₃				E ₁	E ₂	E ₃													
LEGEND:	NOTE:	M	I	C	E	shock	vibration	*Tensile Connected	compression	impact resistance	torsion	shock	vibration	*Tensile Connected	compression	impact resistance	torsion	IP 54/65	IP 67	operation temp.	temp. change	sun radiation	oil resistance	res. liquid chemicals	res. gaseous agents	operation temp.	temp. change	sun radiation	oil resistance	res. liquid chemicals	res. gaseous agents	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field	ESD, Transients, RF, Magnetic Field		
• = Acceptable for use in Environment	In the case a lower M.I.C.E. rated part is needed to be used in a higher M.I.C.E. rated environment please contact Tech Support for further guidance on the application.					100 ms-1	7mm/20ms-1	300N	1100N/150mm	10J		250 ms-1	15mm/50 ms-1	2	2200N/150mm	30J					-25°C to +70°C	1,0 °C/min	See C3	< 5,0 ppm				-40°C to +70°C	3,0 °C/min	1120 W/m ²	< 500 ppm					
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-- = Not Applicable																																				
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Part Number	Product Description																																			

Network Zone System (continued)

24" x 36" Enclosures – Category 6A Connectivity and Fiber Uplink Patch Cords and Adapters

Z23C-SS	Pre-configured network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6A STP copper patch cords and jacks, (4) MM LC fiber patch cords with (6) LC adapters, backplane and cable management.	–	2	c	2	–	–	–	–	–									•	x	•	•	•	•	•									•		
Z23U-S24S	Universal network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6A STP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies.	–	2	c	2	–	–	–	–	–									•	x	•	•	•	•	•									•		
Z23U-S25S	Universal network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6A STP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters, redundant power supplies and (2) maintenance-free UPS.	–	2	c	2	–	–	–	–	–									•	x	•	•	•	•	•									•		

24" x 36" Enclosures - Category 6 Connectivity and Fiber Uplink Patch Cords and Adapters

Z23C-S	Pre-Configured network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber patch cords with (6) adapters, backplane and cable management.	–	2	c	1	–	–	–	–	–									•	x	•	•	•	•	•									•		
Z23C-6	Pre-Configured network zone system, 24" x 36", 316 stainless steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber patch cords with (6) adapters, backplane and cable management.	–	2	c	1	–	–	–	–	–									•	x	•	•	•	•	•									•		
Z23U-S24	Universal network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters and redundant power supplies.	–	2	c	1	–	–	–	–	–									•	x	•	•	•	•	•									•		
Z23U-S25	Universal network zone system, 24" x 36", mild steel enclosure, for two industrial switches, includes (16) Category 6 UTP copper patch cords and jacks, (4) MM LC fiber uplink patch cords with (6) adapters, redundant power supplies and (2) maintenance-free UPS.	–	2	c	1	–	–	–	–	–									•	x	•	•	•	•	•									•		

Wireless Access Point Enclosure

PZNWE12	Wireless enclosure designed for Power over Ethernet applications. Includes unshielded connectivity kit. External dimensions: 13.56" H x 13.47" W x 6.56" D. Internal dimensions: 11.70" H x 11.70" W x 6.29" D.	1	2	1	2	x	x	–	–	x	–									•	x	x	x	x	x	x									•		
PZNWE14	Wireless enclosure designed for traditional AC power applications. Includes unshielded connectivity kit. External dimensions: 15.50" H x 13.50" W x 6.25" D. Internal dimensions: 13.53" H x 11.55" W x 5.94" D	1	2	1	2	x	x	–	–	x	–									•	x	x	x	x	x	x									•		



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