IndustrialNet[™] Variant 1 Bulkhead Connectors

specifications

8-position, industrial connector shall be applicable for use in manufacturing environments and shall meet/exceed the ANSI/TIA-568.2-D standards for Category performance requirements. Bulkhead RJ45 jack and plug shall incorporate an IP67 rated seal and shall be designed to provide protection from dust and temporary immersion in water typically found in harsh industrial environments. Tethered protective cap shall ensure IP67 protection of the connector and plug in the unmated condition. Secondary seals on both the connector and plug shall provide an additional environmental barrier. Termination to a 4-pair 24 AWG, 100 Ohm twisted pair cable shall not require the use of a punch down tool. An IP67 rating shall be achieved when mated with an IP67 and NEMA UL Type 12, 6/6P, 4X industrial grade, bayonet style patch cord.



technical information

	or matron	Silleideu.
Channel and componen performance:	<i>t</i> Exceeds channel and component requirements of ANSI/TIA- 568.2-D Category and ISO11801 Class E standards at swept frequencies for each performance category	IndustrialNet [™] U Female A to fem IndustrialNet [™] T
Electrical/mechanical performance:	Meets all ODVA Ethernet/IP [^] electrical and mechanical performance requirements	UTP with bulkh connector on both ends:
Environmental protection:	Protects and seals connections against dust and water immersion to ANSI/IEC 60529-2004	STP with bulkhe connector on both ends:
	Vibration, temperature and chemical resistant; shielded version further enhances electromagnetic performance	STP with bulkhe
FCC and ANSI/TIA compliance:	Meets ANSI/TIA-1096-A; contacts plated with 50 micro inches of gold for superior performance	one end: *For lengths 2, 3,
IEC compliance:	Plug meets IEC 60603-7 specifications	 length designation desired length. For example, the
IP compliance:	Rated IP67 for dust protection and temporary liquid immersion	cord with industria both ends in 5-me
NEMA/UL compliance:	Rated UL Type 12, 6/6P, 4X	IndustrialNet [™] 7 STP with caps:
Material:	Bulkhead connector is constructed of black PBT plastic	IndustrialNet ™ T UTP with caps: STP with caps:
Packaging:	Connector and plug include protective cap	*For lengths 5, 7, length designation desired length. For
RoHS compliancy status:	Compliant	a 7-foot, UTP pate **For lengths 2, 3 length designation
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications	desired length. ^EtherNet/IP is a t
		IndustrialNet [™] S



IndustrialNet[™] TX6A[™] Connectors

Industriainet TX6A	Connectors
UTP:	IAEBH6X
STP:	IAEBH6XS
Coupler, Shielded:	IAEBHC6XS
IndustrialNet [™] TX6 [™]	PLUS Connectors
UTP:	IAEBH6
STP:	IAEBH6S
Coupler, Unshielded:	IAEBHC6
IndustrialNet™ TX5e™	Connectors
Unshielded:	IAEBH5E
Shielded:	IAEBH5ES
Coupler, Unshielded:	IAEBHC5E
Coupler, Shielded:	IAEBHC5ES
IndustrialNet [™] TX5e [™]	Modular Plugs
UTP:	MPI588T
Shielded:	MPSI588T
IndustrialNet [™] USB C	oupler
Female A to female A:	
IndustrialNet [™] TX6A [™]	
UTP with bulkhead	
connector on	
both ends:	IUTP6X1MBL*
STP with bulkhead	
connector on	
both ends:	ISTP6X1MBL*
STP with bulkhead	
connector on one end:	ISTP6X1MBLR*
one enu.	ISTFORTWIDEN
*For lengths 2, 3, 5, and	10 meters, change the
length designation in the desired length.	e part number to the
For example, the part nu	Imber for an STP natch
cord with industrial bulk	
both ends in 5-meter ler	igth is ISTP6X5MBL.
IndustrialNet™ TX6™ F	Patch Cords
STP with caps:	ISTPSP1MBL**
IndustrialNet [™] TX5e [™]	Patch Cords
UTP with caps:	IUTPCH3BL*Y
STP with caps:	ISTPCH1MBL**Y
-	
*For lengths 5, 7, 10, 15	or 20 feet, change the
*For lengths 5, 7, 10, 15 length designation in the	e part number to the
length designation in the desired length. For exam	e part number to the ople, the part number fo
length designation in the desired length. For exam a 7-foot, UTP patch core	e part number to the ople, the part number fo d is IUTPSP7BLY.
length designation in the desired length. For exam a 7-foot, UTP patch core **For lengths 2, 3 or 5 m	e part number to the ople, the part number fo d is IUTPSP7BLY. eters, change the
length designation in the desired length. For exam a 7-foot, UTP patch core	e part number to the ople, the part number fo d is IUTPSP7BLY. eters, change the
length designation in the desired length. For exan a 7-foot, UTP patch core **For lengths 2, 3 or 5 m length designation in the	e part number to the nple, the part number fo d is IUTPSP7BLY. eters, change the e part number to the
length designation in the desired length. For exan a 7-foot, UTP patch core **For lengths 2, 3 or 5 m length designation in the desired length.	e part number to the nple, the part number fo d is IUTPSP7BLY. eters, change the e part number to the nark of ODVA.
length designation in the desired length. For exam a 7-foot, UTP patch core **For lengths 2, 3 or 5 m length designation in the desired length. ^EtherNet/IP is a tradem Industrial/Net ^{**} Stainle	e part number to the nple, the part number fo d is IUTPSP7BLY. eters, change the e part number to the nark of ODVA.
length designation in the desired length. For exan a 7-foot, UTP patch core **For lengths 2, 3 or 5 m length designation in the desired length. ^EtherNet/IP is a traden	e part number to the nple, the part number fo d is IUTPSP7BLY. eters, change the e part number to the nark of ODVA. ss Steel Faceplates
length designation in the desired length. For exam a 7-foot, UTP patch corre **For lengths 2, 3 or 5 m length designation in the desired length. ^EtherNet/IP is a tradem IndustrialNet [™] Stainle Single gang:	e part number to the nple, the part number fo d is IUTPSP7BLY. eters, change the e part number to the mark of ODVA. ss Steel Faceplates IAEFP1 IAEFP2-2G
length designation in the desired length. For exam a 7-foot, UTP patch corr **For lengths 2, 3 or 5 m length designation in the desired length. ^EtherNet/IP is a traden IndustrialNet [™] Stainle Single gang: Double gang:	e part number to the nple, the part number fo d is IUTPSP7BLY. eters, change the e part number to the mark of ODVA. ss Steel Faceplates IAEFP1 IAEFP2-2G
length designation in the desired length. For exam a 7-foot, UTP patch corr **For lengths 2, 3 or 5 m length designation in the desired length. ^EtherNet/IP is a traden IndustrialNet [™] Stainle Single gang: Double gang: Tools and Accessories	e part number to the nple, the part number fo d is IUTPSP7BLY. eters, change the e part number to the mark of ODVA. ss Steel Faceplates IAEFP1 IAEFP2-2G
length designation in the desired length. For exan a 7-foot, UTP patch corr **For lengths 2, 3 or 5 m length designation in the desired length. ^EtherNet/IP is a traden IndustrialNet [™] Stainle Single gang: Double gang: Tools and Accessories Termination tool	e part number to the nple, the part number fo d is IUTPSP7BLY. eters, change the e part number to the mark of ODVA. ss Steel Faceplates IAEFP1 IAEFP2-2G

key features and benefits

Withstands light wash down and temporary submerged conditions in harsh factory environments without loss of performance when mated to IP67 IndustrialNet [™] Patch Cords; Maintains NEMA 4/4X rating when properly installed on NEMA 4/4X enclosures	
Eliminates the potential for module rotation	
Holds bulkhead safely and securely from inside of enclosure	
Plug contact plated with 50 micro inches of gold	
Provides positive reinforcement during mated condition; rated to 100 mating cycle	
Maintains IP67 seal during unmated connection	
Optimizes performance by reducing conductor untwist to less than 1/8"	
Speeds installation and places no impact on critical components for maximum reliability	
Offers industry standard solution familiar to end users which speeds deployment	
Can terminate with standard adjustable slipjaw pliers or optional termination tool (EGJT)	
Termination cap is color coded for T568A and T568B wiring schemes	
Bulkhead connector fits into standard IEC 1-13/64" (30.5mm) diameter mounting hole or optional faceplate	

applications

IndustrialNet[™] Variant 1 Bulkhead Connectors provide an ideal solution to support industrial Ethernet from the Local Area Network (LAN) based support offices to the processing devices on the plant floor even under harsh industrial conditions. Innovative design features provide a secure, reliable connection for superior data transmission in work cells where moisture and dust/particles are encountered, in temperature extremes and in applications with vibration. Industrial bulkhead connection protects and seals against dust and water immersion common in the food and beverage industry where bacterial contamination is present and light wash down is required. High temperature resilience of up to 85°C storage and 75°C operating offers reliable connection in manufacturing facilities such as metal processing, welding, and chemical batch processing where high temperatures are normal. In automotive panel stamping plants and work cells where vibration is a concern, the IndustrialNet[™] Connectors protect the RJ45 mating.

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