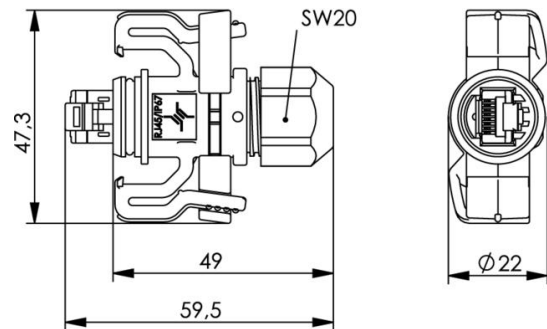
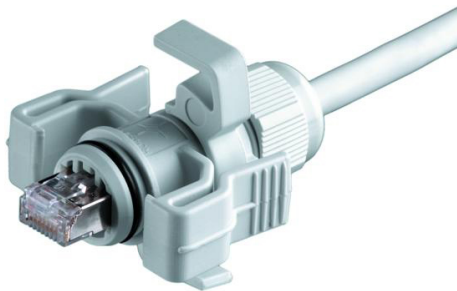


order number: J00026A0150

STX V6 RJ45 plug set



Technical Attributes	
Short name	STX V6 RJ45 plug set Cat.6 _A
Remarks	AWG24-27

Product description

Connectors for modern industrial applications need to be designed in such a way that they simplify processes and cope with faster data transmission. Telegärtner recommends the connectors of Variant 6 for generic cabling of factory automation machinery (Automation Island, ODVA) acc. IEC 61918 and fieldbus installation acc. to IEC 61784-5 in a robust plastic design. The connectors of Variant 6 are standardized in the IEC 61076-3-106, designed to meet the demands of harsh industrial environments, guaranteeing protection class IP67 when mated. The locking clasps allow easy, tool-less opening as well as a secure locking with protection class IP67. The RJ45 plug and bulkhead inserts stand out due to high power reserves and offer transmission characteristics of Class E_A acc. to ISO/IEC11801.

Performance Characteristics

- Variant 6 acc. to IEC 61076-3-106
- connector for Automation Island acc. to IEC 61918
- 8-way contact for 10 Gigabit-Ethernet
- locking clasp to prevent accidental detachment
- optional accessory: colour-coding of the patch cords by using different coloured locking clasps
- 360° shield connection
- inner and outer conductor crimped in one single operation using the profi crimping tool N00001A0002
- Fire rating UL94 V0
- protection class IP67

Mechanical Characteristics	
Insertion force	≤ 100 N

Durability (mating cycles)	≥ 750
Material: contacts	Phosphor Bronze
Material: contact finish	Ni2.54Au0.8
Material: housing	PA6 UL94 V0
Material: cable gland	PA6 UL94 V0
Material: connector housing	PC UL94 V0
Material: seal	CR Neoprene
Material: O-ring	HNBR 70 Shore A
Material: shielding housing	0.5 mm brass, 2 µm Ni
Mating Requirements Cu-Conductor diameter: solid	Ø 0.36 - 0.51 mm (AWG27/1-24/1)
Mating Requirements Cu-Conductor diameter: stranded	Ø 0.46 - 0.61 mm (AWG27/7-24/7)
Mating Requirements: Displacement Contact	
Mating Requirements: core diameter	Ø 0.85 - 1.02 mm
Mating Requirements: overall cable diameter	Ø 5.5 - 6.2 mm
Material: protective cap	
Material:	
Material: jack housing	
Material: contact (finish)	min. 0.8 µm Au on 2.54 µm Ni
Material: shield	0.5 mm brass, 2 µm Ni
Cu-Conductor diameter: solid	0.40 - 0.51 mm AWG 26/1 - AWG 24/1
Cu-Conductor diameter: stranded	0.46 - 0.61 mm AWG 27/7 - AWG 24/7
Core Diameter	0.85 - 1.05 mm
Cable diameter	5.0 - 7.3 mm
Reusable IDC for AWG 22/1	
Reusable IDC for AWG 22/7	
Reusable IDC für AWG 23/1 - AWG 26/1	
Reusable IDC for AWG 24/7 - AWG 26/7	

Climatic Characteristics	
Tested / classified in accordance with DIN IEC 60068-1	25/070/21

Electrical Characteristics	
Contact resistance	≤ 20 mΩ
Insulation resistance	≥ 500 MΩ
Voltage proof: contact-contact	≥ 1000 V
Voltage proof: contact-shield	≥ 1500 V
Working current at 50° C	1 A
Interference proof	EN50082-2
Emission proof	EN50081-2
Current carrying capacity at 50°C	1 A
PoE according to IEEE802.3af	Adequate for Power over Ethernet+

Standards	
IEC 61076-3-106 Variant 6	Connector for electronic equipments part 3 - 106: 8-way connectors for industrial requirements
IEC 60529	Degree of protection by housing (IP code)
DIN EN 60603-7-5	Connector for electronic equipments part 7-5: detail specification for 8-way shielded, free and fixed connectors, for data transmission with frequencies up to 250 MHz
Generic cabling systems	ISO/IEC 11801; EN 50173-1; ISO/IEC 24702; IEC 61918
Connectors	IEC 60603-7-51; IEC 61076-3-106
Degrees of protection provided by enclosures (IP code)	IEC 60529

Transmission Characteristics	
Category	Cat.6 acc. to DIN EN 60603-7-5
10 Gigabit Ethernet acc. to IEEE 802.3an	fulfilled
Category 6 _A (Component)	ISO/IEC 11801, DIN EN 50173-1
Class E _A (Permanent Link)	ISO/IEC 11801, DIN EN 50173-1

Class E _A (Channel)	
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