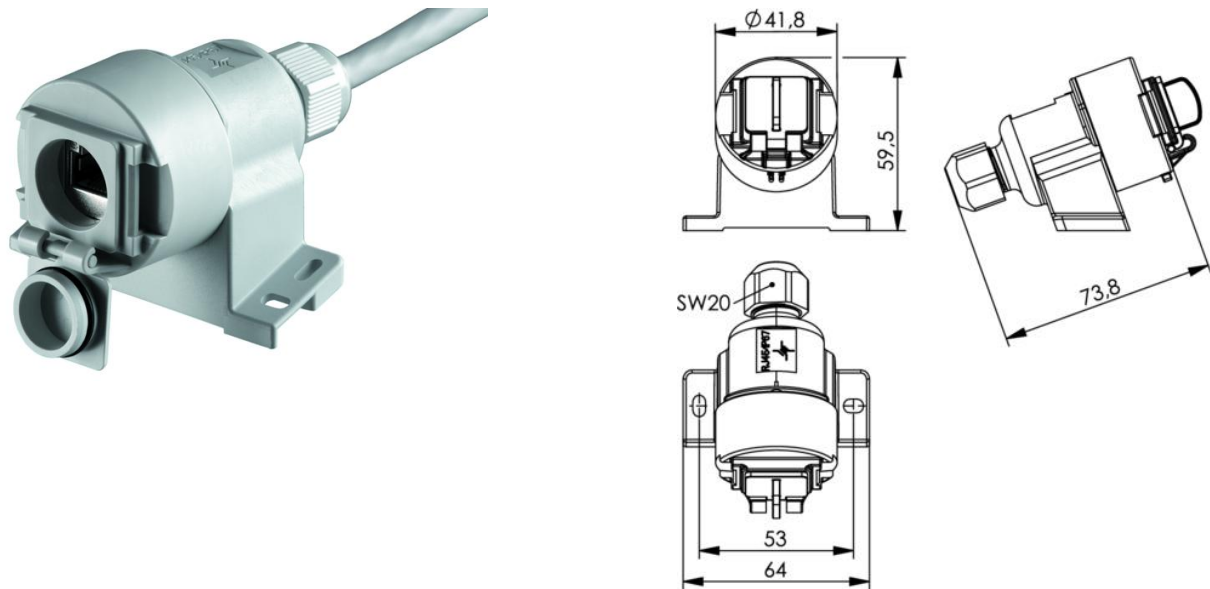


order number: J00020A0436

STX V6 surface mounting outlet Cat.6 Class E_A



Technical Attributes	
Short name	STX V6 surface mounting outlet Cat.6 Class E _A
Remarks	Fire rating UL94 V0

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
- large surface 360° screen connection
- non-detachable cover ensures protection class IP67 seal (unmated)
- easily opened, re-usable modules

- Fire rating UL94 V0
- mating face mountable in two directions set at 90° to each other
- can be used together with standard RJ45 plugs (no IP protection)

Mechanical Characteristics	
Insertion force	≤ 100 N
Durability (mating cycles)	≥ 750
Material: contacts	Bronze CuSn9P H14
Material: contact finish	NiAu
Material: housing	PA6 UL94 V0
Material: cable gland	PA6 UL94 V0
Material: seal	CR
Material: O-ring	NBR 70
Material: shielding housing	nickel-plated ZN
Mating Requirements Cu-Conductor diameter: solid	Ø 0.4 - 0.6 mm (AWG26-22)
Mating Requirements Cu-Conductor diameter: stranded	Cu-stranded (AWG26/7)
Mating Requirements: Displacement Contact	reusable for AWG22, 23 and 24 when using conductors of same or larger cross-sectional area
Mating Requirements: core diameter	Ø 0.7 - 1.4 mm
Mating Requirements: overall cable diameter	Ø 5 - 10 mm
Material: protective cap	PA6 UL94 V0
Material: jack housing	zinc diecast
Material: contact (finish)	min. 0.8 µm Au on 2 µm Ni
Material: shield	German silver
Cu-Conductor diameter: solid	0.40 - 0.65 mm AWG 26/1 - AWG 22/1
Cu-Conductor diameter: stranded	0.48 - 0.61 mm AWG 26/7 - AWG 24/7
Core Diameter	0.7 - 1.4 mm
Cable diameter	5.0 - 10.0 mm
Reusable IDC for AWG 22/1	≤4 cycles
Reusable IDC for AWG 22/7	≤4 cycles

Reusable IDC für AWG 23/1 - AWG 26/1	≤10 cycles
Reusable IDC for AWG 24/7 - AWG 26/7	≤10 cycles

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