

21700652	DATA SHEET	
Valid from: 17.06.2026	EPIC® DATA ED-IE-AXS-6A-A-20-FC	

Description

- Field mountable RJ45-connector acc. IEC 60603-7-51, Cat.6A, shielded
- Color coding acc. EIA/TIA-568 A/B
- For industrial ethernet



General characteristics

Connection method, connector	RJ45-plug, field mountable
Number of pins	8
Ambient temperature	-40°C to +85°C (-40°F to 185°F)
Degree of protection	IP 20
Shielding	Shielded
For cable-Ø	Ø5.5 mm to Ø10.0 mm

Variation

Article	Description	Valid cu-conductor	Valid insulation-Ø	Pin assignment
21700652*	ED-IE-AXS-6A-A-20-FC	AWG22/1 to AWG24/1 AWG22/7 to AWG27/7	1,0 – 1,6	EIA/TIA-568A
21700653*	ED-IE-AXS-6A-B-20-FC	AWG22/1 to AWG24/1 AWG22/7 to AWG27/7	1,0 – 1,6	EIA/TIA-568B
21700654**	ED-IE-AXS-6A-A-20-FD-FC	AWG24/1 to 26/1 AWG24/7 to AWG27/7	0,85 – 1,1	EIA/TIA-568A
21700655**	ED-IE-AXS-6A-B-20-FD-FC	AWG24/1 to 26/1 AWG24/7 to AWG27/7	0,85 – 1,1	EIA/TIA-568B

Additional note

* Released Lapp-cables (for AWG22/19) 2170888.

** Released Lapp-cables (for AWG26/19) 2170488, 2170489, CE217489, 2170289.

Electrical properties

Rated voltage	48 VAC / 60 VDC (max.)
Rated current at 50 °C	1 A
Pollution degree	2
Contact resistance	≤ 20 mΩ
Insulation resistance	≥ 500 MΩ
Withstand voltage	≥ 1000 VDC contact to contact ≥ 1500 VDC contact to shield

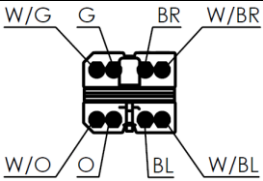
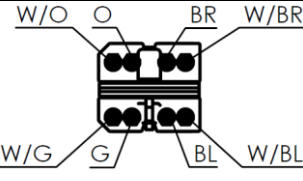
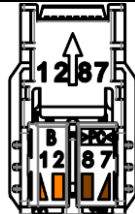
Transmission characteristics

Category (ISO)	6A
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Connector pin assignment

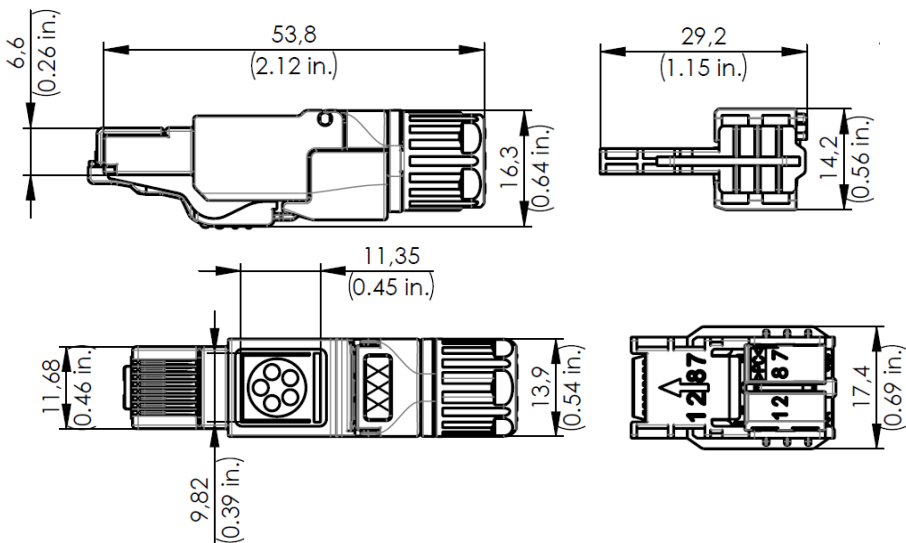
EIA/ TIA 568A	EIA/TIA 568B
	
	

Mechanical properties

RJ45-plug

Inflammability class according to UL 94	V0
Connector housing, material	Zink diecast Ni plated
Contact housing, material	PC crystal clear (article 21700652 to 21700653)
	PC green (article 21700654 to 21700655)
	PC white (article 21700652 to 21700653)
	PC grey (article 21700654 to 21700655)
Wire presorting, material	PC black
	PBT black
Hook, material	PBT black
Strain relief lever, material	spring steel
Protection cap, material	FR4, soldermask both side
Screening shield, material	phosphor bronze, sn plated
PCB, material	brass, ni plated
Piercing contacts, material	spring steel, gold plated
Shield contact, material	
Contact, material	

Technical drawing



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Standards / Approvals

Product standard, RJ45-connector	IEC 60603-7-51
Generic cabling for customer premises – General requirements	ISO/IEC 11801
Transmission rate up to 10GBit	acc. IEEE 802.3an
POE+	acc. IEEE 802.3at
4PPoE	acc. IEEE 802.3bt

Approvals

UL listed, E-File	DUXR.E353543
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Application range

Automation, industrial machinery and plant engineering

Note

Photographs are not true to scale and do not represent detailed images of the respective products.

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