
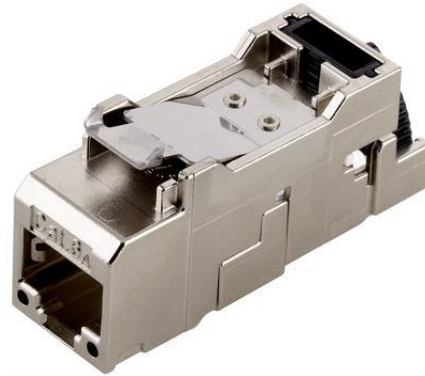


21700612	<b>DATA SHEET</b>	
Valid from: 01.04.2020	<b>ED-IE-AX-RJ45F-6A-B-FC</b>	

## Product description

- Field mountable Industrial Ethernet female connector with color coding according to T568A
- Connector according to IEC 60603-7-51
- suitable for industrial applications, for structured cabling for office building applications, data centers and home networks



## General properties

Ambient temperature	-40 to +70 °C
Protection degree	IP 20
Outer diameter, cable	5.0 – 10.0 mm
Outer diameter, wire	0.9 – 1.6 mm
Termination cross section, stranded, 7 wires	AWG27/7 – AWG22/7
Termination cross section, solid	AWG26/1 – AWG22/1

## Mechanical properties

Insertion force	≤ 30 N
Mating cycles	≥ 750


## Electrical properties

Contact resistance	≤ 20 mΩ
Insulation resistance	≥ 500 MΩ
Proof voltage, contact-contact	≥ 1000 V, DC
Proof voltage, contact-shield	≥ 1500 V, DC
Current carrying capacity at 50 °C	1 A
Suitable for Power over Ethernet+ acc. to IEEE 802.3at:2009	yes

## Transmission properties

Suitable for 10 Gigabit Ethernet acc. to IEEE 802.3an	yes
Category 6 <sub>A</sub>	ISO/IEC 11801; DIN EN 50173-1
Class E <sub>A</sub>	ISO/IEC 11801; DIN EN 50173-1
Category 6A	ANSI/EIA-568-C.2
Transfer impedance at 1 MHz	≤ 100 mΩ
Transfer impedance at 10 MHz	≤ 200 mΩ
Transfer impedance at 80 MHz	≤ 1600 mΩ

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### Materials

Connector housing, base material	die-cast zinc
Connector housing, surface	Ni
IDC contacts, base material	CuNi2Si
IDC contacts, surface	Sn
Spring contacts, base material	spring steel
Spring contacts, surface	Au
Locking hooks	stainless steel

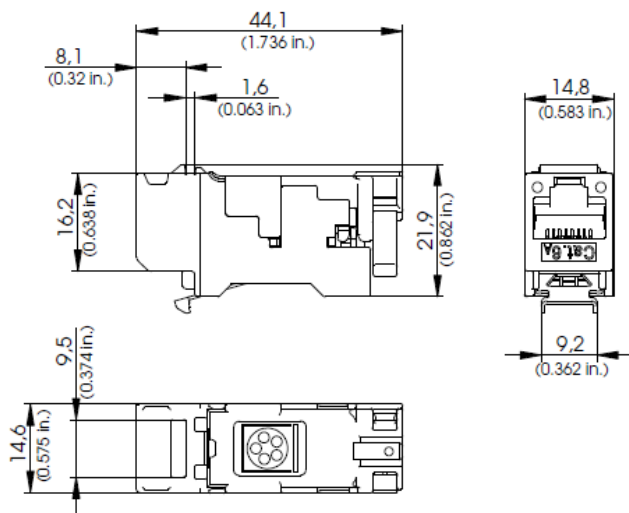
### Standards

Product standard	RJ45 connector acc. to IEC 60603-7-51 ANSI/TIA/EIA-568-C.2
Generic cable systems	ISO/IEC 11801 DIN EN 50173-1

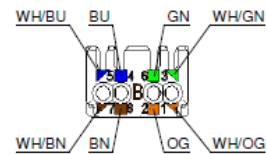
### Approvals

UL listed, E-File	DUXR.E353543
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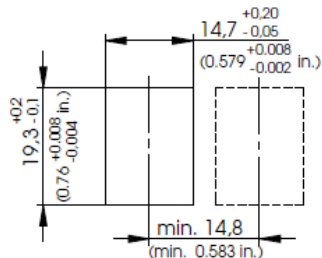
### Drawings



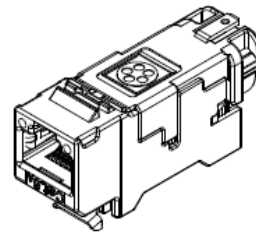
Anschlussbelegung / PIN assignment T568B  
nach / according to TIA/EIA 568-C.2



Einbaumaße (max. und min.)  
mounting dimensions (max. and min.)



Materialdicke 1,6±0,05 mm  
wall thickness 1,6±0,05 mm (0.063±0.002 in.)



### 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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