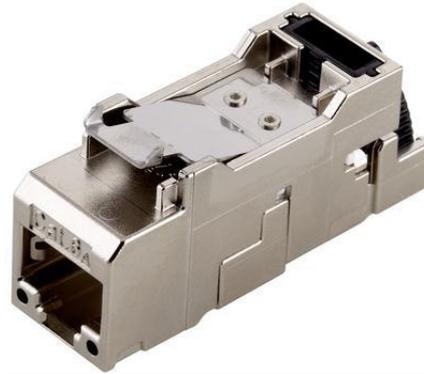


21700612	<b>DATA SHEET</b>	
Valid from: 07.07.2020	<b>ED-IE-AX-RJ45F-6A-B-FC</b>	

### 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

Inflammability class in according to UL94  
 Connector housing, base material  
 Connector housing, surface  
 IDC contacts, base material  
 IDC contacts, surface  
 Spring contacts, base material  
 Spring contacts, surface  
 Locking hooks

V0  
 die-cast zinc  
 Ni  
 CuNi2Si  
 Sn  
 spring steel  
 Au  
 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

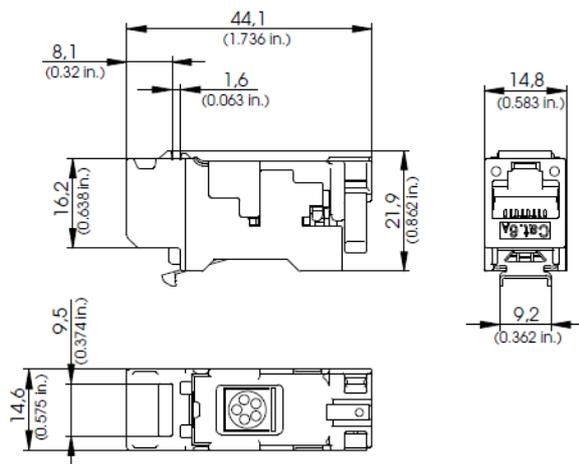
DIN EN 50173-1

### Approvals

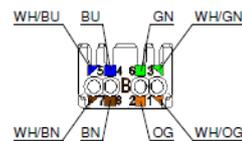
UL listed, E-File

DUXR.E353543

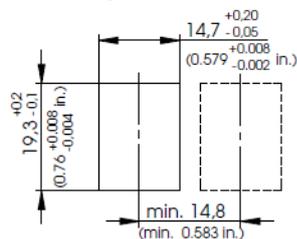
### Drawings



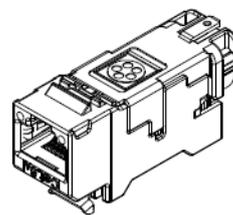
Anschlussbelegung / PIN assignment T568B  
 nach / according to TIA/EIA 568-C.2



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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