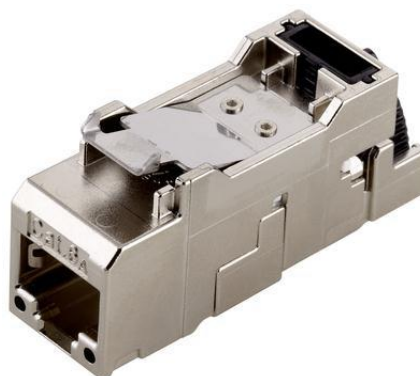


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Product description

- 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 _A	ISO/IEC 11801; DIN EN 50173-1
Class E _A	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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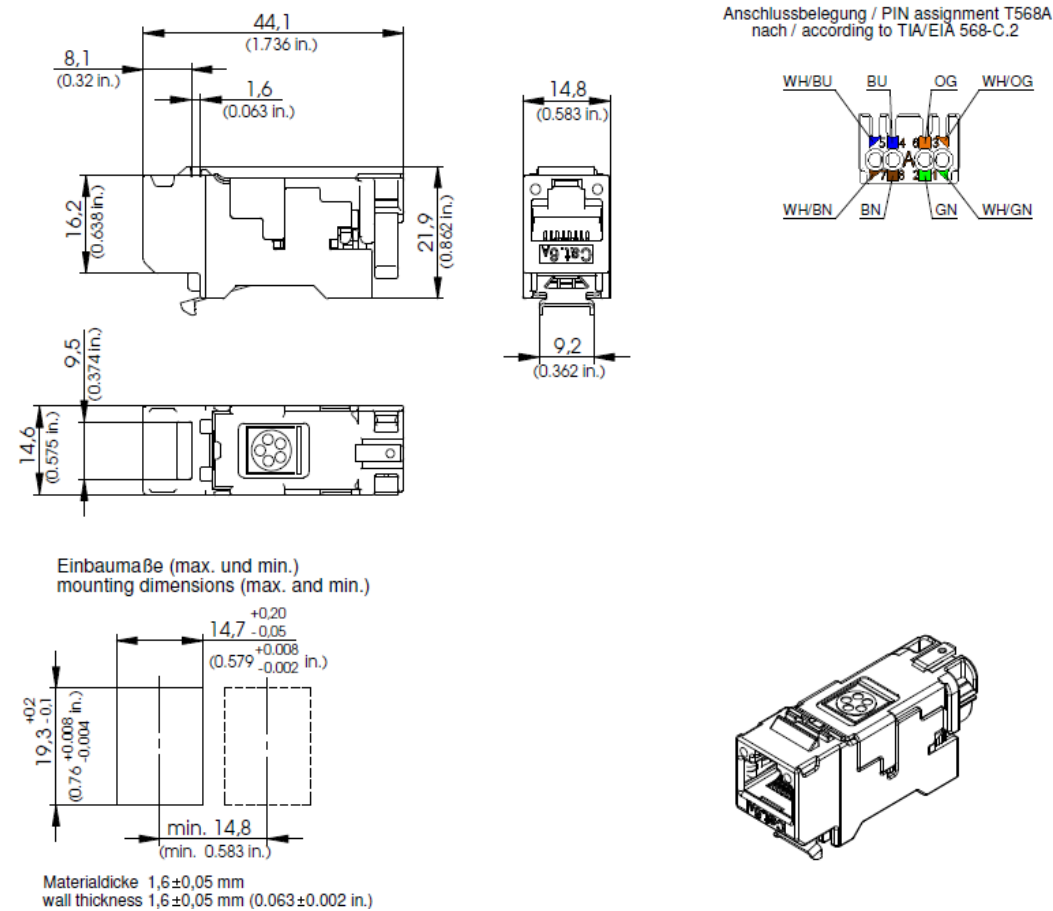
Materials

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

Drawings



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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