
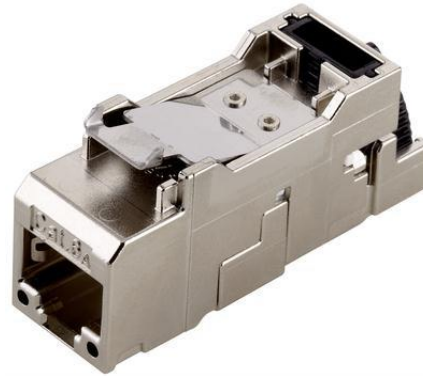


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|---------------------------|-------------------------------|---|
| 21700612 | DATA SHEET |  |
| Valid from: 20.07.2021 | ED-IE-AX-RJ45F-6A-B-FC | |

Product description

- Field mountable Industrial Ethernet RJ45-jack with color coding acc. to T568B
- Connector according to IEC 60603-7-5
- 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 |
| Pin assignment (acc. TIA-568.2-D) | T568B |
| Outer diameter, cable | 5.0 – 9.0 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

| | |
|--|---------------|
| Rated voltage | 60 VDC (max.) |
| Contact resistance | ≤ 20 mΩ |
| Insulation resistance | ≥ 500 MΩ |
| Voltage proof, contact-contact | ≥ 1000 V, DC |
| Voltage proof, contact-shield | ≥ 1500 V, DC |
| Current carrying capacity at 50 °C | 1 A |
| Suitable for Power over Ethernet+ acc. to IEEE 802.3at | yes |
| Suitable for Power over Ethernet 4PPoE acc. to IEEE 802.3bt | yes |


Transmission properties

| | |
|----------------|---|
| Category (ISO) | 6 |
|----------------|---|

Materials

| | |
|---|------------------------|
| Inflammability class according to UL 94 | V0 |
| Connector housing, material | Zink diecast Ni plated |
| Stop hook, material | Stainless steel |
| Snap arm for cable trap, material | PC black |
| Slide for shield contact, material | PC black |
| Shield, material | German silver |
| Wire pair presorting, material | PBT nature |
| Insulating plate, material | PC white |
| Insulation body, material | PC white |

| | | |
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| Creator: MANA2/PDP Released: IVSE1/PDP | Document: DB21700612EN Version: 05 | Page 1 of 2 |
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PCB, material
Contact spring, material
IDC, material

FR4, tin-plated
Spring steel, gold plated
Copper alloy, tin-plated

Standards

Product standard, RJ45-connector
Generic cable systems

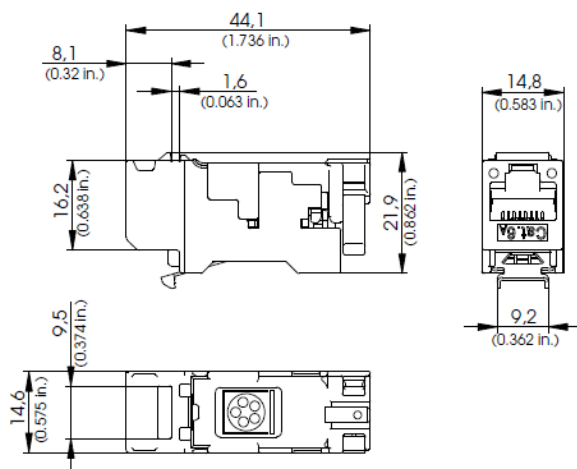
IEC 60603-7-5
ISO/IEC 11801
DIN EN 50173-1

Approvals

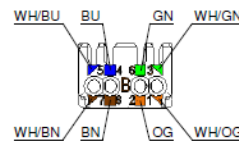
UL listed, E-File

DUXR.E353543

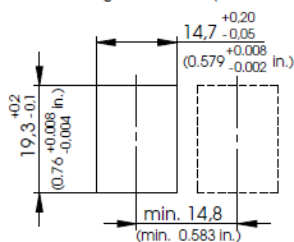
Drawings



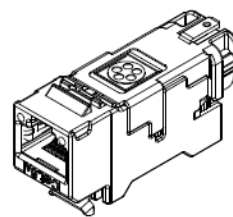
Anschlussbelegung / PIN assignment T568B
nach / according to TIA/EIA 568.2-D



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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| Creator: MANA2/PDP Released: IVSE1/PDP | Document: DB21700612EN Version: 05 | Page 2 of 2 |
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