

## Product description

- Field mountable Industrial Ethernet connector with colour coding acc. to T568B
- Suitable for industrial applications, structured cabling for office building applications, data centers and home networks
- Especially designed for cables with a core diameter of AWG27-24/7 and high flexible cables with a core diameter of AWG26/19
- Suitable high flexible cable: 2170488 ETHERLINE® FD P Cat.6 4x2xAWG26/19



## General properties

|   |                   |
|---|-------------------|
| Ambient temperature                           | -40 to +85 °C     |
| Protection degree                             | IP 20             |
| Outer diameter, cable                         | 5.0 – 9.0 mm      |
| Outer diameter, wire                          | 0.85 – 1.1 mm     |
| Termination cross section, stranded, 7 wires  | AWG27/7 – AWG24/7 |
| Termination cross section, stranded, 19 wires | AWG26/19          |
| Termination cross section, solid              | AWG26/1 – AWG24/1 |

## Mechanical properties

|  |        |
|--|--------|
| Insertion force                              | ≤ 30 N |
| Mating cycles                                | ≥ 750  |
| Cable extraction force (assembled connector) | ≥ 50 N |

## 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 6A   | 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              |

## Materials

|                                  |               |
|----------------------------------|---------------|
| Connector housing, base material | die-cast zinc |
| Connector housing, surface       | Ni            |
| Contacts, surface                | Au            |

AbN  
automation



## Standards

Product standard

RJ45 connector acc. to IEC 60603-7-51

Generic cable systems

ANSI/TIA/EIA-568-C.2

ISO/IEC 11801

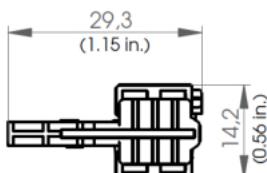
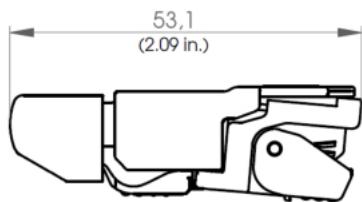
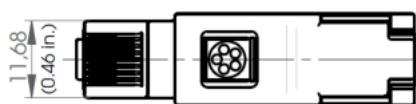
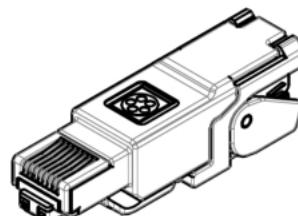
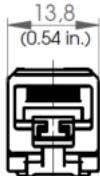
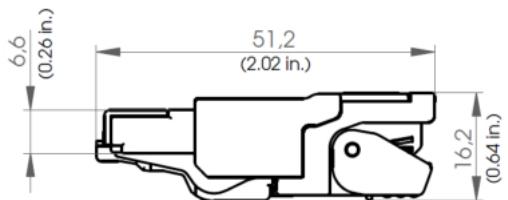
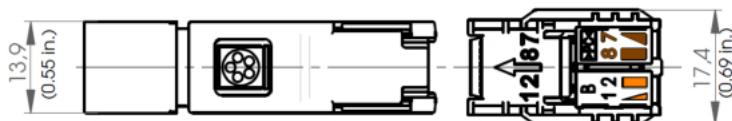
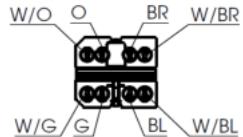
DIN EN 50173-1

## Approvals

UL listed, E-File

E353543

## Drawings

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

## 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.