Product description

- Field mountable Industrial Ethernet RJ45 connector with colour coding according to T568A
- Cable outlet in 4 different 90°-steps modifiable
- Suitable for industrial applications, data centres and home networks
- Especially designed for cables with a core diameter of AWG24-27/7 and high flexible cables with a core diameter of AWG26/19 such as ETHERLINE® drag chain cable of the Lapp Group (e.g. 2170488)

General properties

Ambient temperature	-40 to +85 °C
Protection degree	IP 20
Outer diameter, cable	5,5 – 10,0 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
Cable outlet, variable	0°, 90°, 180°, 270°

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	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/TIA/EIA-568-C.2

Materials

Inflammability class in according to UL94	V0
Connector housing, base material	die-cast zinc
Connector housing, surface	Ni
Contacts, surface	Au

Approvals

UL listed, E-File	DUXR.E353543

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

Anschlussbelegung / PIN assignment T568A
nach / according to TIA/EIA 568-C.2
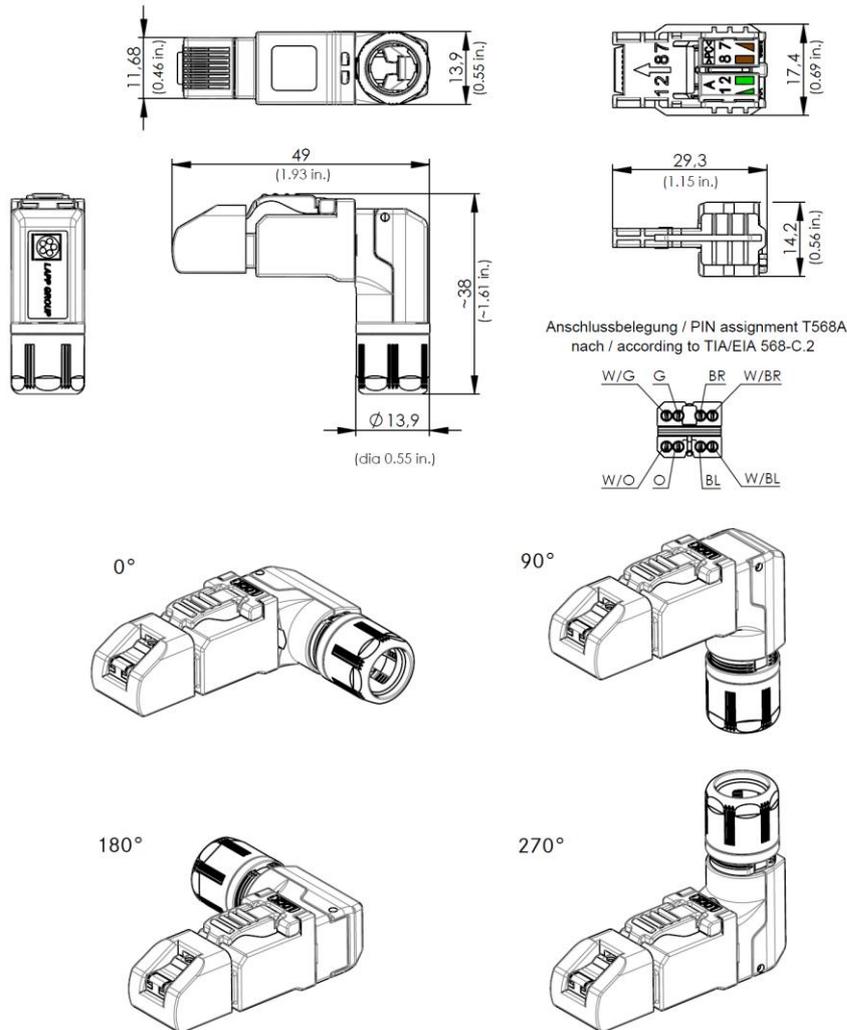
Application range

Automation, industrial machinery and plant engineering

Note

Photographs are not true to scale and do not represent detailed images of the respective products.