

|                           |                                        |                                                                                     |
|---------------------------|----------------------------------------|-------------------------------------------------------------------------------------|
| 21700638                  | <b>DATA SHEET</b>                      |  |
| Valid from:<br>17.09.2018 | <b>ED-IE-90-6<sub>A</sub>-PN-20-FC</b> |                                                                                     |

## Product description

- Field mountable Industrial Ethernet RJ45 connector with colour coding according to PROFINET standard
- Cable outlet in 4 different 90°-steps modifiable
- Suitable for industrial applications, data centres and home networks



## General properties

|                                              |                     |
|----------------------------------------------|---------------------|
| Ambient temperature                          | -40 to +85 °C       |
| Protection degree                            | IP 20               |
| Outer diameter, cable                        | 5,5 – 10,0 mm       |
| Outer diameter, wire                         | 1,0 – 1,6 mm        |
| Termination cross section, stranded, 7 wires | AWG27/7 – AWG22/7   |
| Termination cross section, solid             | AWG24/1 – AWG22/1   |
| 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+<br>acc. to IEEE 802.3at | 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/TIA/EIA-568-C.2          |

## Materials

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

## Approvals

|                   |         |
|-------------------|---------|
| UL listed, E-File | E353543 |
|-------------------|---------|

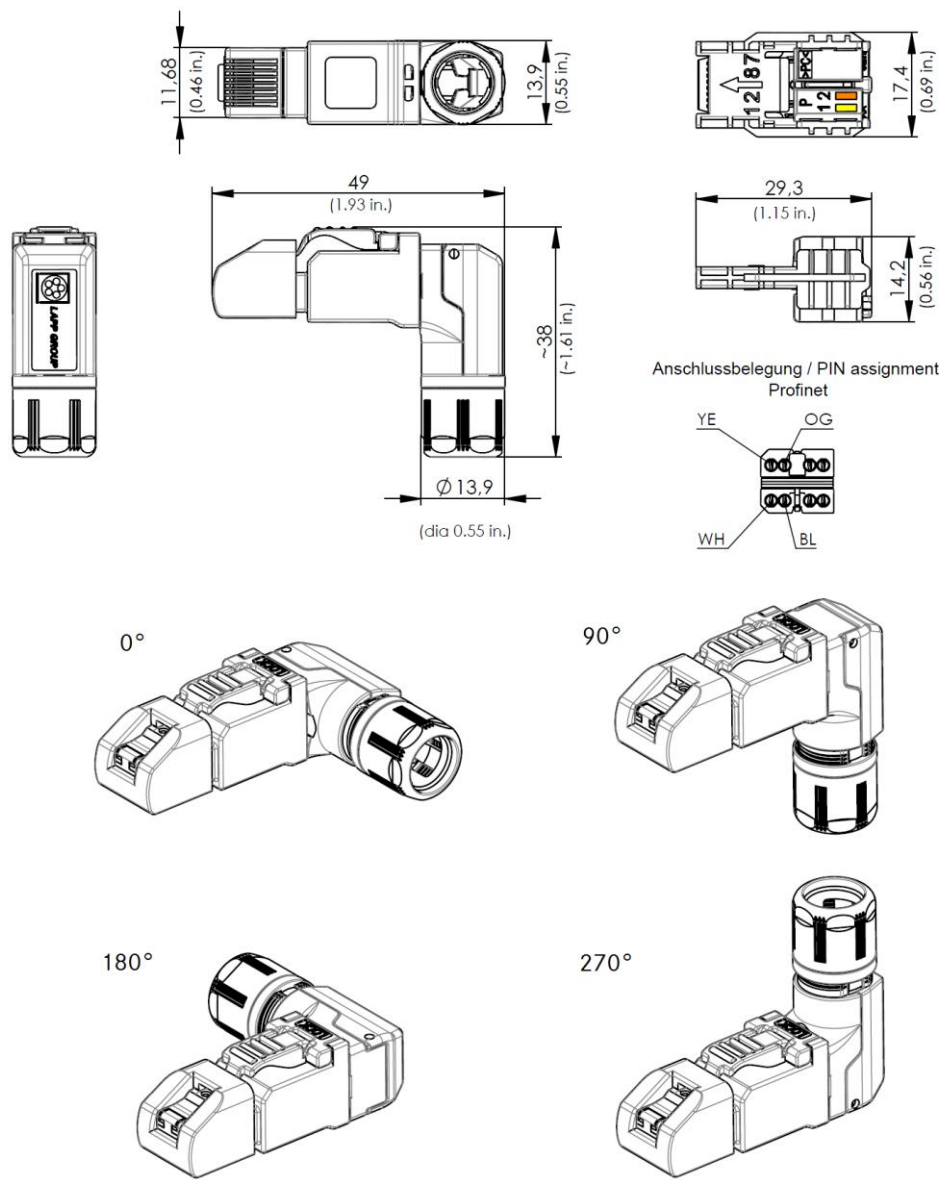
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Standards

|                       |                                       |
|-----------------------|---------------------------------------|
| 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                        |

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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