

**Industrial Ethernet  
IE-PS-RJ45-FH-BK-B****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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www.weidmueller.com



RJ45 plug-in connector (tool-less) according to IEC  
60603-7-51 for wire outer diameters up to 1.6 mm

**General ordering data**

|            |                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------|
| Type       | IE-PS-RJ45-FH-BK-B                                                                                                      |
| Order No.  | <a href="#">1132050000</a>                                                                                              |
| Version    | RJ45 plug, no tools required, Cat.6 <sub>A</sub> / Class E <sub>A</sub><br>(ISO/IEC 11801 2010), 8-core, EIA/TIA T568 B |
| GTIN (EAN) | 4032248912148                                                                                                           |
| Qty.       | 10 pc(s).                                                                                                               |

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## Technical data

### Dimensions and weights

|            |        |
|------------|--------|
| Net weight | 23.5 g |
|------------|--------|

### Temperatures

|                             |                |                             |        |
|-----------------------------|----------------|-----------------------------|--------|
| Operating temperature, max. | 70 °C          | Operating temperature, min. | -40 °C |
| Operating temperature       | -40 °C...70 °C | Storage temperature         |        |
| Installation temperature    |                |                             |        |

### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

### General data

|                                                        |                                                 |                                                              |                                                    |
|--------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------|
| Fire load                                              | 77 kJ                                           | Halogen                                                      | No                                                 |
| Connection 1                                           | RJ45                                            | Connection 2                                                 | IDC                                                |
| Wiring                                                 | 8-core, EIA/TIA T568 B                          | Housing main material                                        | Zinc diecast                                       |
| Speed                                                  | 10 GBit/s                                       | Insulation cross-section, min.                               | 0.85 mm                                            |
| Insulation cross-section, max.                         | 1.6 mm                                          | Category                                                     | Cat.6A / Class E <sub>A</sub> (ISO/IEC 11801 2010) |
| Contact material                                       | Phosphorus bronze                               | Contact surface                                              | Gold over nickel                                   |
| Connection diameter, solid                             | 0.41...0.64 mm                                  | Conductor connection cross-section, solid (AWG)              | AWG 26/1...AWG 22/1                                |
| Wire cross-section, solid, min.                        | 0.128 mm <sup>2</sup>                           | Wire cross-section, solid, max.                              | 0.324 mm <sup>2</sup>                              |
| Conductor connection cross-section, solid              | 0.13...0.32 mm <sup>2</sup>                     | Connection diameter, flexible                                | 0.48...0.76 mm                                     |
| Conductor connection cross-section, flexible (AWG)     | AWG 26/7...AWG 22/7                             | Wire connection cross-section, finely stranded, min.         | 0.141 mm <sup>2</sup>                              |
| Wire connection cross section, finely stranded, max.   | 0.355 mm <sup>2</sup>                           | Conductor connection cross-section, flexible                 | 0.14...0.35 mm <sup>2</sup>                        |
| Conductor connection cross-section, extremely flexible | , Approval of the cable by Weidmüller necessary | Conductor connection cross-section, extremely flexible (AWG) | , Approval of the cable by Weidmüller necessary    |
| MICE classification M                                  | M <sub>1</sub>                                  | MICE classification I                                        | I <sub>1</sub>                                     |
| MICE classification C                                  | C <sub>1</sub>                                  | MICE classification E                                        | E <sub>3</sub>                                     |
| Sheath diameter, min.                                  | 5.5 mm                                          | Sheath diameter, max.                                        | 8.5 mm                                             |
| Shielding                                              | 360°; all-round enclosure                       | Protection degree                                            | IP20                                               |
| Insertion force                                        | ≤ 30 N                                          | Plugging cycles                                              | 750                                                |
| Material insulator                                     | PA UL94-V0                                      | Ability to reconnect                                         | ≥ 10 cycles (for the same or larger cross-section) |

### Electrical properties

|                                        |             |                                       |                            |
|----------------------------------------|-------------|---------------------------------------|----------------------------|
| Contact resistance                     | ≤ 20 mΩ     | Current-carrying capacity at 50 °C    | 1 A                        |
| Dielectric strength, contact / contact | ≥ 1000 V DC | Dielectric strength, contact / shield | ≥ 1500 V DC                |
| Insulation strength                    | > 500 MΩ    | PoE / PoE+                            | conforming to IEEE 802.3at |

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## Technical data

### Standards

|                                           |                                                                                                        |                                                     |                                    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------|
| Generic communication cable facilities    | ANSI / TIA / EIA-568-B.2-10, DIN EN 61918<br>Draft 02.2007, ISO / IEC 11801:2002, ISO / IEC 24702:2006 | Application-specific communication cable facilities | PROFINET installation instructions |
| IP protection classes                     | IEC 60529                                                                                              | Connector standard                                  | IEC 60603-7-51                     |
| UL standard for communication accessories | UL 1863                                                                                                | Certificate no. (cULus)                             | E316369                            |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 4.0   | EC001264    | ETIM 5.0   | EC001264    |
| ETIM 6.0   | EC001121    | eClass 6.2 | 27-25-05-04 |
| eClass 7.1 | 27-25-05-04 | eClass 8.1 | 19-17-01-25 |
| eClass 9.0 | 27-44-03-90 | eClass 9.1 | 27-44-03-90 |

### Approvals

Approvals



ROHS Conform

### Downloads

|                                             |                                                                                                                                                         |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">DUXR.E316369</a><br><a href="#">CC-Link IE-PS-RJ45-FH-BK</a>                                                                                |
| Brochure/Catalogue                          | <a href="#">CAT 9 IETH 15/16 EN</a><br><a href="#">MB FREECONTACT EN</a><br><a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                |
| User Documentation                          | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a><br><a href="#">Manual</a>                                                            |

## Industrial Ethernet IE-PS-RJ45-FH-BK-B

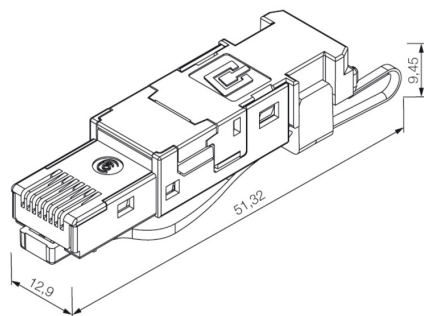
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## Drawings

### Printing



### Dimensioned drawing



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## Accessories

### Pressing tool



When working with live voltages, you must follow special guidelines and use special tools - tools which have been specially produced and tested for this purpose. Weidmüller offers a complete line of pliers which comply with national and international testing standards. All pliers are produced and tested according to DIN EN 60900. The pliers are ergonomically designed to fit to the hand form, and thus feature an improved hand position. The fingers are not pressed together - this results in less fatigue during operation.

### General ordering data

| Type     | Order No.                  | Version                                                                                      | GTIN (EAN)    | Qty.     |
|----------|----------------------------|----------------------------------------------------------------------------------------------|---------------|----------|
| PWZ RJ45 | <a href="#">1118040000</a> | Pressing tool for pressing together both housing parts for on-site assembly of the RJ45 plug | 4032248899197 | 1 pc(s). |

### Coloured strain relief



For identifying your IP20 RJ45 plugs, which can be assembled on-site, in 6 different colours

### General ordering data

| Type                  | Order No.                  | Version                                                                | GTIN (EAN)    | Qty.      |
|-----------------------|----------------------------|------------------------------------------------------------------------|---------------|-----------|
| IE-CR-IP20-RJ45-FH-OG | <a href="#">1963070000</a> | Industrial Ethernet, Colour coding ring, orange, Strain relief, orange | 4032248645251 | 10 pc(s). |
| IE-CR-IP20-RJ45-FH-YE | <a href="#">1963090000</a> | Industrial Ethernet, Colour coding ring, yellow, Strain relief, yellow | 4032248645275 | 10 pc(s). |
| IE-CR-IP20-RJ45-FH-WH | <a href="#">1963050000</a> | Industrial Ethernet, Colour coding ring, white, Strain relief, white   | 4032248645237 | 10 pc(s). |
| IE-CR-IP20-RJ45-FH-GY | <a href="#">1963060000</a> | Industrial Ethernet, Colour coding ring, grey, Strain relief, grey     | 4032248645244 | 10 pc(s). |
| IE-CR-IP20-RJ45-FH-GN | <a href="#">1963100000</a> | Industrial Ethernet, Colour coding ring, green, Strain relief, green   | 4032248645282 | 10 pc(s). |

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## Accessories

IE-CR-IP20- [1963080000](#)  
RJ45-FH-BU

Industrial Ethernet, Colour 4032248645268 10 pc(s).  
coding ring, blue, Strain  
relief, blue