

**IE-BI-RJ45-FJ-B****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

RJ45 inserts for plug-in connectors ver.1 / 4 / 5 / 14,  
HDC and junction boxes IE-OM...; IE-OP...; IE-CC...

**General ordering data**

|            |                                                  |
|------------|--------------------------------------------------|
| Version    | RJ45 insert socket, Connector for base, TIA-568B |
| Order No.  | <a href="#">1963840000</a>                       |
| Type       | IE-BI-RJ45-FJ-B                                  |
| GTIN (EAN) | 4032248651894                                    |
| Qty.       | 10 pc(s).                                        |

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## Technical data

## Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 2.5 g |
|------------|-------|

## Temperatures

|                       |                |          |                        |
|-----------------------|----------------|----------|------------------------|
| Operating temperature | -40 °C...70 °C | Humidity | 0...93 % rel. humidity |
|-----------------------|----------------|----------|------------------------|

## General data

|                                            |                                                                              |                                                    |                                                  |
|--------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|
| Connection 1                               | RJ45                                                                         | Connection 2                                       | IDC                                              |
| Description of article                     | Connector for base                                                           | Wiring                                             | TIA-568B                                         |
| Colour                                     | Miscellaneous                                                                | Shock resistance acc. to IEC 60512-6-3             | 250 ms <sup>-2</sup>                             |
| Vibration resistance acc. to IEC 60512-6-4 | 50 ms <sup>-2</sup> sinusoidal (9...500 Hz)                                  | Humidity                                           | 0...93 % rel. humidity                           |
| Housing main material                      | Zinc diecast                                                                 | Insulation cross-section, min.                     | 0.85 mm                                          |
| Insulation cross-section, max.             | 1.6 mm                                                                       | Category                                           | Cat.6A / Class EA (ISO/IEC 11801 2010)           |
| Contact material                           | Spring steel, Ni 1.2 µm                                                      | Contact surface                                    | Gold over Nickel, Au ≥ 0.8 µm                    |
| Connection diameter, solid                 | 0.4...0.64 mm                                                                | Conductor connection cross-section, solid (AWG)    | AWG 24...AWG 22                                  |
| Connection diameter, flexible              | 0.48...0.76 mm                                                               | Conductor connection cross-section, flexible (AWG) | AWG 26...AWG 22                                  |
| Shielding                                  | 360° all-round enclosure, FS 2.8 Ground connection for equipotential bonding | Protection degree                                  | IP67 with housing                                |
| Plugging cycles                            | 750                                                                          | Ability to reconnect                               | ≥ 10 cycles for AWG 23-26, ≥ 4 cycles for AWG 22 |

## Electrical properties

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

## General standards

|                                                     |                                    |                                           |                |
|-----------------------------------------------------|------------------------------------|-------------------------------------------|----------------|
| Application-specific communication cable facilities | PROFINET installation instructions | Certificate No. (DNV)                     | TAA000022B     |
| Certificate no. (cULus)                             | E316369                            | Connector standard                        | IEC 60603-7-51 |
| IP protection classes                               | IEC 60529                          | UL standard for communication accessories | UL 1863        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001121    | ETIM 7.0    | EC001121    |
| ETIM 8.0    | EC001121    | ETIM 9.0    | EC001121    |
| ETIM 10.0   | EC001121    | ECLASS 9.0  | 27-44-03-90 |
| ECLASS 9.1  | 27-44-03-90 | ECLASS 10.0 | 27-44-03-90 |
| ECLASS 11.0 | 27-44-03-90 | ECLASS 12.0 | 27-44-03-90 |
| ECLASS 13.0 | 27-44-03-90 | ECLASS 14.0 | 27-44-03-90 |
| ECLASS 15.0 | 27-44-03-90 |             |             |

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## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Important note

|                     |                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------|
| Product information | RJ45 inserts for plug-in connectors ver.1 / 4 / 5 / 14, HDC and junction boxes IE-OM...; IE-OP...; IE-CC... |
|---------------------|-------------------------------------------------------------------------------------------------------------|

## Approvals

Approvals



|                 |                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/</a> |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate no. (cULus) | E316369    |

## Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">GL FrontCom</a><br><a href="#">ISO/IEC EN and TIA/EIA Screened Class EA Category 6A, 4 connector channel</a><br><a href="#">ISO/IEC EN and TIA/EIA Screened Class E Category 6, 3 connector permanent link</a><br><a href="#">ISO/IEC EN and TIA/EIA Screened Class E Category 6, 4 connector channel</a><br><a href="#">ISO/IEC EN and TIA/EIA Screened Class EA Category 6A, 2 connector channel</a><br><a href="#">CC-Link IE-BI-RJ45-FJ</a><br><a href="#">UL Approval</a><br><a href="#">Compliance Statement Screened Category 6 ISO/IEC EN and TIA/EIA Connecting Hardware</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| User Documentation                          | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a><br><a href="#">Designation key / Type key</a><br><a href="#">Manual</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Brochures                                   | <a href="#">MB FREECONTACT EN</a><br><a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a><br><a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a>                                                                                                                                                                                                                                                                                                                                                                                                   |

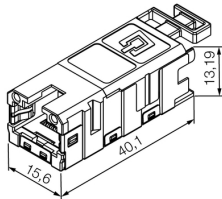
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## Drawings

### Dimensioned drawing



### Printing



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## Accessories

## Cable-lug sleeves

**Insulated tab-connector sleeves made from PVC with copper sleeve**

- Commercially available designs
- Not soldered
- With conical entry funnel

## General ordering data

|            |                            |                                                                                                 |
|------------|----------------------------|-------------------------------------------------------------------------------------------------|
| Type       | LIF 1,5F288 R              | Version                                                                                         |
| Order No.  | <a href="#">9200520000</a> | cable lug, terminal end, Insulated cable connector, 1.5 mm <sup>2</sup> , 0.5 mm <sup>2</sup> - |
| GTIN (EAN) | 40322484 10361             | 1.5 mm <sup>2</sup> , red                                                                       |
| Qty.       | 100 pc(s).                 |                                                                                                 |

## 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       | PWZ RJ45                   | Version        |
| Order No.  | <a href="#">1118040000</a> | Pressing tools |
| GTIN (EAN) | 4032248899197              |                |
| Qty.       | 1 pc(s).                   |                |