

**Industrial Ethernet  
IE-BI-RJ45-FJ-A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

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FrontCom® Vario integrates multiple functions in only one single frame. The system is easy to install and you can select from a wide range of data, signal and power modules. In addition to being extremely compact, FrontCom® Vario offers a number of unique product features that will make your project planning and work activities secure, fast and future-proof. Furthermore, the FrontCom® Vario system has an attractive housing design that, by the way, offers highest impact-resistance and fully meets the requirements of IP 65 protection class.

**General ordering data**

|            |                                                  |
|------------|--------------------------------------------------|
| Type       | IE-BI-RJ45-FJ-A                                  |
| Order No.  | <a href="#">1962850000</a>                       |
| Version    | RJ45 insert socket, Connector for base, TIA-568A |
| GTIN (EAN) | 4032248645053                                    |
| Qty.       | 10 pc(s).                                        |

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## Technical data

### Dimensions and weights

|            |      |
|------------|------|
| Net weight | 16 g |
|------------|------|

### Temperatures

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

### Environmental Product Compliance

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

### General data

|                   |                       |              |                    |
|-------------------|-----------------------|--------------|--------------------|
| Insert type       | Insert data SteadyTec | Product type | RJ45 insert socket |
| Protection degree | IP67 with housing     |              |                    |

### General data

|                                                    |                                                    |                                      |                          |
|----------------------------------------------------|----------------------------------------------------|--------------------------------------|--------------------------|
| Connection 1                                       | RJ45                                               | Connection 2                         | IDC                      |
| Description of article                             | Connector for base                                 | Wiring                               | TIA-568A                 |
| Colour                                             | Miscellaneous                                      | Shock resistance acc. to IEC 60512-4 | 250 ms <sup>-2</sup>     |
| Vibration resistance acc. to IEC 60512-4           | 50 ms <sup>-2</sup> sinusoidal (9...500 Hz)        | Humidity                             | 0...93 % rel. humidity   |
| 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                     | 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 |
| 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 DC | Dielectric strength, contact / shield | ≥ 1500 V DC                |
| Insulation strength                    | 500 MΩ      | PoE / PoE+                            | conforming to IEEE 802.3af |

### General standards

|                         |           |                                           |                |
|-------------------------|-----------|-------------------------------------------|----------------|
| Certificate no. (cULus) | E316369   | Connector standard                        | IEC 60603-7-51 |
| IP protection classes   | IEC 60529 | UL standard for communication accessories | UL 1863        |

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### Classifications

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC001121    | ETIM 7.0   | EC001121    |
| eClass 9.0  | 27-44-03-90 | eClass 9.1 | 27-44-03-90 |
| eClass 10.0 | 27-44-03-90 | UNSPSC     | 30-21-18-01 |

### Approvals

Approvals



ROHS

Conform

### Downloads

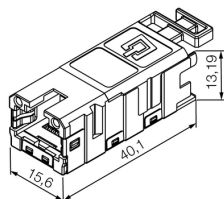
|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">GOST Approval</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="#">DUXR.E316369</a><br><a href="#">CC-Link IE-BI-RJ45-FJ</a><br><a href="#">Compliance Statement Screened Category 6 ISO/IEC EN and TIA/EIA Connecting Hardware</a> |
| Brochure/Catalogue                          | <a href="#">CAT 9 IETH 18/19 EN</a><br><a href="#">CAT 3 HDC 17/18 EN</a><br><a href="#">MB FREECONCONTACT 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Engineering Data                            | <a href="#">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>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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## Drawings

### Dimensioned drawing



### Printing

