# ZS7100-0001 | Plug, field assembly, EtherCAT P, IP65/67, shielded

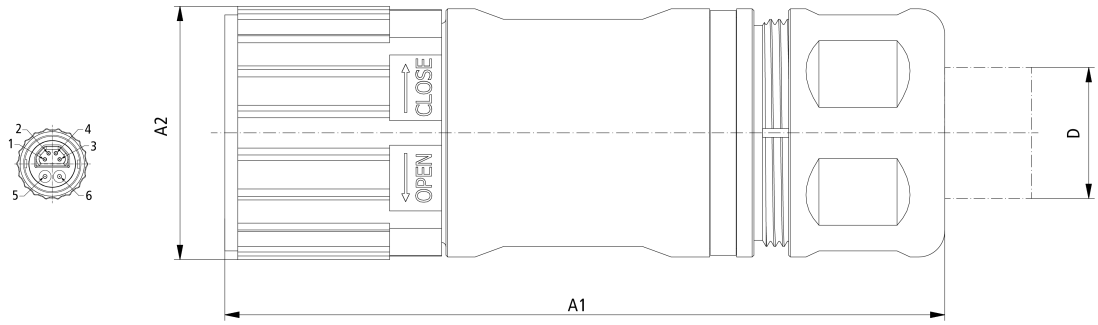
## B12, plug, straight, male+male, pins 2+4, EtherCAT P-coded



| Electrical data | |
|---|---|
| Rated voltage (Ethernet) | 30 V DC |
| Rated current (Ethernet) | 3 A at 40°C according to IEC 61076-2-104 |
| Rated voltage (power) | 60 V DC |
| Rated current (power) | 10 A at 55°C |
| Rated impulse voltage (power) | 1.5 kV |
| Rated impulse voltage (Ethernet) | 1.0 kV |
| Shielding | yes |
| Contact resistance | < 10 mΩ |
| Insulation resistance | ≥ 100 MΩ (according to IEC 60512) |
| **Mechanical data** | |
| Installation size | B12 |
| Connector type | plug |
| Configuration | straight |
| Contact type | male+male |
| Number of positions (face) | pins 2+4 |
| Coding | EtherCAT P-coded |

| | |
|---|---|
| Wire termination | crimp connection |
| Mating cycles | ≥ 100 (according to IEC 60512-9a) |
| Way of locking | bayonet |
| Body material | CuZn, Ni |
| Coupling nut material | GD-Zn, Ni |
| Seal | NBR |
| Contact carrier material | PA, UL 94 V-0 |
| Contact carrier color (Ethernet) | red |
| Contact carrier color (power) | red |
| Contact material | CuZn, Ni b/Au 0.2 gal. |
| Max. wire cross-section (power) | AWG18/0.75 mm² |
| Max. wire cross-section (Ethernet) | AWG22/0.34 mm² |
| Max. cable outer diameter | 8.5...9.5 mm |
| **Environmental data** | |
| Ambient temperature (operation) | -20...+80°C, -4...+176°F |
| Protection rating | IP65/67 in screwed condition (according to IEC 60529) |
| Pollution level | 3/2 (according to IEC 60664-1) |

## Dimensions




| | |
|---|---|
| A1 | 60.00 mm |
| A2 | 18.80 mm |

### Mechanical coding

Mechanical keying uses defined keyways that only allow insertion and subsequent locking rotation when correctly aligned. For more information, please refer to the keying guide for correct use.

## Notes

- Illustrations similar

| Ordering information | |
|---|---|
| ZS7100-0001 | B12, plug, metal, shielded, crimp, straight, male+male, 2+4-pin, EtherCAT P-coded, IP65/67, Ø 8.5...9.5 mm |

| Accessories | |
|---|---|
| ZB8810-0000 | crimping tool for Ethernet element, M8, B12, B17, B23 contacts |
| ZB8810-0001 | crimping insert and locator for Ethernet element, M8, B12, B17 contacts |
| ZS7000-C001 | Crimp contact, Ethernet element, male, AWG22/0.34 mm², packaging unit = 50 pieces |
| ZS7000-C003 | B12 crimp contact, male, 0.75 mm², packaging unit = 50 pieces |
| ZS7100-B003 | B12 protection cap, plug, plastic, IP67, packaging unit = 10 pieces, including loss protection |
| ZS7100-B004 | B12 protection cap, plug, metal, IP67, packaging unit = 5 pieces, including loss protection |
| ZS7100-B005 | B12 color coding connector/square flange, red, packaging unit = 10 pieces |
| ZS7100-B006 | B12 color coding connector/square flange, yellow, packaging unit = 10 pieces |
| ZS7100-B007 | B12 color coding connector/square flange, blue, packaging unit = 10 pieces |
| ZS7100-B008 | B12 color coding connector/square flange, green, packaging unit = 10 pieces |
| ZS7100-B015 | B12 color coding connector/square flange, orange, packaging unit = 10 pieces |
| ZS7100-B016 | B12 color coding connector/square flange, gray, packaging unit = 10 pieces |
| ZB8802-0001 | assembly tool for B12 connector, AF17 |



Products marked with a crossed-out wheeled bin shall not be discarded with the normal waste stream. The device is considered as waste electrical and electronic equipment. The national regulations for the disposal of waste electrical and electronic equipment must be observed.

Beckhoff®, ATRO®, EtherCAT®, EtherCAT G®, EtherCAT G10®, EtherCAT P®, MX-System®, Safety over EtherCAT®, TC/BSD®, TwinCAT®, TwinCAT/BSD®, TwinSAFE®, XFC®, XPlanar® and XTS® are registered trademarks of and licensed by Beckhoff Automation GmbH. Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

© Beckhoff Automation GmbH & Co. KG 04/2026

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual application do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressively agreed in the terms of contract.