



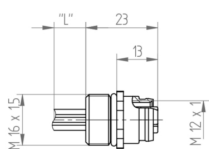
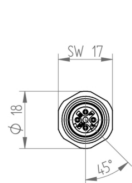
Product: [EF12M OCTOPUS](#)

M12 Data Receptacle Connector: Female, front mount, M12 - mating side, stranded wires - connecting side, 4-pin, D-coded, unshielded, metallic grey housing, 50 V AC / 60 V DC, 4 A

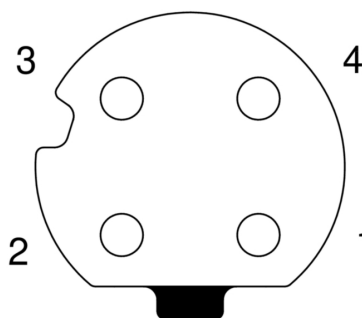
Product Description

M12 Data Receptacle Connector: Female, front mount, M12 - mating side, stranded wires - connecting side, 4-pin, D-coded, unshielded, metallic grey housing, 50 V AC / 60 V DC, 4 A

Technical Drawing



Female



Technical Specifications

Face View

| Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|--------|-------|--------|-------|
| yellow | white | orange | blue |

Technical Data

| | |
|---------------------------|-------------------|
| Product Family: | Data Connectors |
| Product Sub Family: | M12 Standard |
| Mating Side: | M12 |
| Connecting Side: | Stranded Wires |
| Brand: | Hirschmann |
| Connector Type: | Receptacle |
| Type of Contact / Gender: | Female |
| Connector Design: | Front Mount |
| Number of Pins: | 4 |
| Coding: | D |
| Attachment Type: | Screw-Locking |
| Rated Voltage: | 60 V |
| Rated Impulse Voltage: | 1.5 kV |
| Operating Voltage: | 50 V AC / 60 V DC |
| Rated Current*: | 4 A |
| Contact Resistance: | ≤ 10 mOhm |

| | |
|-----------------------------------|---|
| Insulation Resistance: | > 10^9 Ohm |
| Mating Cycles: | ≤ 100 |
| Type of Connection: | Solder |
| Thread Size: | M16x1.5 |
| Ambient Temperature (Operation)*: | - 25 °C - + 90 °C |
| Protection Degree / IP Rating**: | IP65, IP67, IP68 (1 m / 24 h) |
| Design Standard: | IEC 61076-2-101 |
| Pollution Degree: | 3 acc. to DIN EN 60664-1 (VDE 0110-1) |
| Clearance / Creepage Distance: | DIN EN 60664-1 (2008/01); VDE 0110-1 |
| Overvoltage Category: | III acc. to DIN EN 60664-1 (VDE 0110-1) |

Materials

| | |
|--------------------------------------|---------------|
| Contact Base Material: | CuZn |
| Contact Plating: | Cu/Au |
| Contact Bearer Material: | PA |
| Contact Bearer Color: | Blue |
| Flammability Class (Contact Bearer): | UL 94 V-2 |
| Potted: | Yes |
| Housing Material: | CuZn |
| Housing Plating: | Nickel-plated |
| Housing Color: | Silver |
| Attachment Material: | CuZn |
| Attachment Plating: | Nickel-plated |
| O-Ring Material: | FKM |

Additional Technical Data

| | |
|----------------------------------|---------------------------------|
| Fastening Torque (Attachment): | M 12x1: (50-60) Ncm, hand-tight |
| Accessories to Order Separately: | 735-413-002 Mounting Nut M16 |

Cable Data

| | |
|---|-----------------------------|
| Conductor Size: | 0.34 mm² |
| Number of Wires: | 4 |
| Conductor material: | Cu |
| Wire Insulation Material: | PVC |
| Insulated Wire Diameter: | max ø 1.75 |
| Ambient Temperature (Fixed Installation): | max. + 105 °C |
| UL Cable Type: | AWM: 1007/1569 |
| Core Colors: | yellow, white, orange, blue |

Safety & Environmental Compliance

| | |
|-----------------|-----|
| RoHS Compliant: | yes |
|-----------------|-----|

Notes

| | |
|-------------------------------------|--|
| Note Derating: | * Notice derating |
| Protection Degree / IP Rating Note: | * only if mounted and locked in combination with Hirschmann / Lumberg connector. On the installation side tightness has to be assured by taking proper measures. |
| Note: | The receptacle connector is constructively intended for usage in IP67 and IP68-products. To realise this protection class, the estimated location has to be designed accordingly. Further details see IEC 61076-2-101. |

Variants

| Item # | Item Description | Cable Length |
|-----------|------------------|--------------|
| 934450021 | EF12M OCTOPUS | 0.08 m |

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

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