

**Product:** [EF12M OCTOPUS](#) 

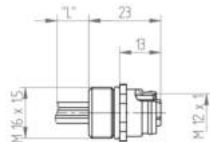


M12 Data Receptacle Connector: Female, front mount, M12 - mating side, stranded wires - connecting side, 4-pin, D-coded, unshielded, metallic grey housing, 50 V AC / 60 V DC, 4 A

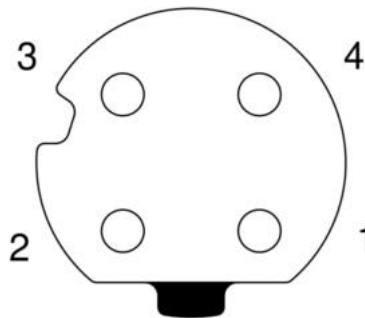
**Product Description**

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**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 <sup>9</sup> 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 mm <sup>2</sup>        |
| 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       |

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