



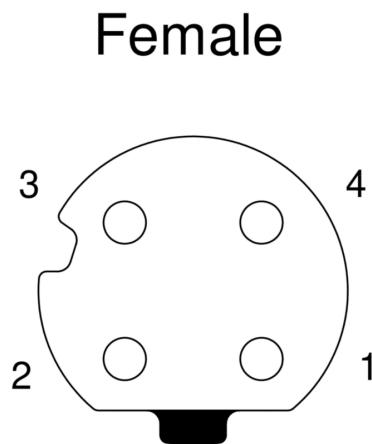
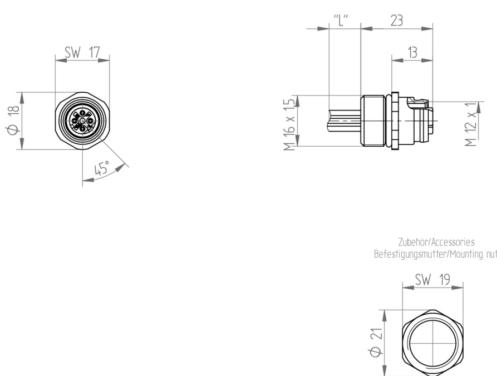
Product: [EF12M OCTOPUS](#)

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



Technical Specifications

Face View

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

Technical Data

Product Family:	Data Connectors
Side 1 Product Sub Family:	M12 Standard
Mating Side:	M12
Connecting Side:	Stranded Wires
Brand:	Hirschmann
Connector Type:	Receptacle
Side 1 Type of Contact/Gender:	Female
Connector Design:	Front Mount
Number of Pins:	4
Coding, Side 1:	D
Attachment Type:	Screw-Locking
Voltage Rating:	60 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Current Rating:	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
Side 1 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 ²
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
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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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