



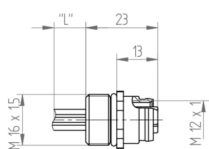
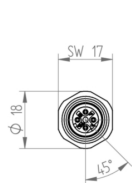
Product: [EF12M OCTOPUS](#)

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

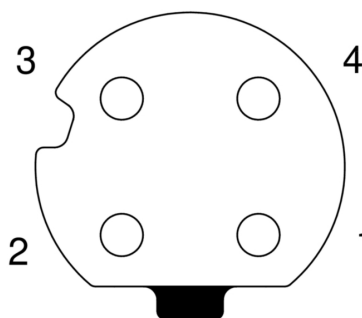
Product Description

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
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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

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.