

**AB-C4-M12FSD-SH****Article No.:** 22261016

Data connectors; EtherCAT, ETHERNET/IP, PROFINET; Cat.5e; M 12 (D-coded); Socket; Straight (180 °)



EtherNet/IP 

**Details****Benefits**

- Stability thanks to die-cast zinc metal housing.
- Easy cable connection thanks to insulation displacement technology.
- Low potential for errors during assembly by conductor manager with color coding according to the PROFINET standard or EIA/TIA standard (T568A or T568B).
- Plug connections with metal housings have an electrically conductive coating. They offer optimum protection against electromagnetic interference (EMC) and dissipate interference signals with low impedance.
- When connected, protection class IP 67 can be achieved.
- UL certification in accordance with the technical data (article dependent) allows the product to be used on the North American market.

**Application**

- Can be used universally on machine interfaces for many applications in data and signal transmission.
- For Ethernet applications 100BASE-TX (up to 100 Mbit/s) according to IEEE 802.3.
- Shielded plug connections with metal housings are particularly suitable for environments where electromagnetic compatibility (EMC) is required.
- Good oil and chemical resistance.

**Notes**

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

**Remarks**

## Technical Data

**General information**

Brand	EPIC®
Product type	Data connectors
Delivery Unit	1
valid Fieldbus or Ethernet System	EtherCAT ETHERNET/IP PROFINET

**Electrical parameters**

Rated voltage	48 V AC rms according to (manufacturer specifications) 60 V DC according to (manufacturer specifications)
Rated current	1.75 A according to (manufacturer specifications)
Overvoltage category	II

**Product design**

Shielded	Yes
Number of contacts	4
Locking mechanism	Screw Thread
Diameter connector	0.748 in
Total length	2.323 in

Thread type	Metric
Thread size	M 12
Connector housing design	Straight
Coded	Yes
Colour coding wire manager	EIA/TIA 586A and EIA/TIA 586B
With thread	Yes
Format of connector	M 12
Connector type	Socket
Type of coding	D-coded
Connector housing angle	180 °
For min. cable outer diameter	0.157 in
For max. cable outer diameter	0.315 in
Type of connection	Plug to socket
Reusable	No
Assembly type	Field Configurable
Connectable conductor cross section solid-core min. (AWG)	26 AWG
Connectable conductor cross section solid-core max. (AWG)	22 AWG
Connectable conductor cross section stranded min. (AWG)	26 AWG
Max. connectable fine-wire conductor cross-section (AWG)	22 AWG
Housing main material	Zinc alloy
Coding element material	Polyamide
Coding element material, short form	PA
Seal type	Sealing cone
Colour housing	Metal

**Product features**

Min. number of insertion cycles	100
IP protection rating	IP 67
Pollution degree	3
Operating temperature max.	-40 °C

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Operation temperature max.	85 °C
UV-resistant	No
Vibration protection	Yes
Ethernet cable category	Cat.5e

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**Certifications and standards**

CE marking	No
EAC certified	Not required
EAC certification number	Отказное письмо № 39
UL recognized	No
UL listed	No
cUR recognized	No
cUL listed	No
CSA certified	No
Product standard according to IEC	M12 according to IEC 61076-2-101

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**EPIC® DATA M12D**

Article No.	Name	Connector type	Colour coding wire manager	Connection type conductor
21700647	ED-IE-AX-M12D-5-PN-67-FC	Plug	PROFINET®	Insulation displacement connector
21700648	ED-IE-AX-M12D-5-67	Plug	EIA/TIA 586A and EIA/TIA 586B	Insulation displacement connector
22260820	AB-C4-M12MSD-SH	Plug	TIA 568B	Insulation displacement connector
22261016	AB-C4-M12FSD-SH	Socket	EIA/TIA 586A and EIA/TIA 586B	
22262022	AB-C4-DSI-M12FSD-M12FSD-M16-SH	Socket		

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