ED-IE-AX-6A-B-20-FC

Article No.: 21700601

Data connectors; ETHERNET/IP, EtherCAT, PROFINET, Ethernet; Cat.6A; RJ45; Plug; Straight (180 °)



Details

Benefits

- 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).
- Color coding according to EIA/TIA standard, also for reduced conductor diameters.
- Product available in various designs: straight cable outlet with locking clip, straight cable outlet with strain relief cable gland or angled cable outlet with strain relief cable gland.
- The angled shape enables four different cable outlets.
- Stability thanks to die-cast zinc metal housing.
- UL certification according to technical data enables the product to be used on the North American market.

Application

- Suitable for all LAN networks and Ethernet applications up to 10GBase-T or 40GBase-T.
- For structured building cabling according to EN 50173 and ISO/IEC 11801.
- Cat.8.1 plug connectors are suitable for use in backbone network areas.

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- Cat.8.1 plug connectors are suitable for short transmission distances of up to 30 m, such as those found in data centers, server rooms or switch-to-switch connections.
- T568A/T568B color coding suitable for Cat.6A cables or Cat.8.1/8.2 cables.
- Variant with PROFINET color coding intended for use with 2-pair cables.

Notes

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.

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.

*approval of the cable by U.I.

Remarks

Technical Data

General information

Brand	EPIC®
Product type	Data connectors
Scope of delivery	including dust protection cap
Delivery Unit	10
valid Fieldbus or Ethernet System	ETHERNET/IP EtherCAT PROFINET Ethernet

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Industry segment	Assembly Machines Automotive Construction Machinery Food & Beverage Healthcare & Pharma Intralogistics & Material handling Lifts & Elevators Machine Tools Packaging Process Industry Robotics Solar Building Automation
customs code	8536698000

Electrical parameters

Rated voltage	50 V AC rms according to (manufacturer specifications) 60 V DC according to (manufacturer specifications)
Rated current	1 A @ 50 °C according to IEC
Supports Power over Ethernet	IEEE 802.3at (PoE+)

Product design

Shielded	Yes
Strain relief with	Clamp lever
Number of contacts	8
Locking mechanism	Latch
Dust protection cap	Yes
Total length	2.016 in
Overall width	0.543 in
Overall height	0.638 in
Connector housing design	Straight
Coded	No
Colour coding wire manager	TIA 568B
With thread	No
Format of connector	RJ45

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Connector type	Plug
Connector housing angle	180 °
Screen contact	Yes
For min. cable outer diameter	0.197 in
For max. cable outer diameter	0.354 in
Min. connectable conductor cross-section (in)	0.039 in
Max. connectable conductor cross-section (in)	0.063 in
Type of connection	Plug to socket
Reusable	Yes
Assembly type	Field Configurable
Connection type conductor	Insulation penetrating connection (IPC)
Shield contact type	Spring
Connectable conductor cross section solid-core min. (AWG)	24 AWG
Connectable conductor cross section solid-core max. (AWG)	22 AWG
Connectable conductor cross section stranded min. (AWG)	27 AWG
Max. connectable fine-wire conductor cross-section (AWG)	22 AWG
Housing main material	Zinc alloy
Housing coating	Nickel-plated
Coating housing shortname	Ni
Contact coating material, short form	Ni/Au
Colour housing	Metal
Dust protection cap color	black

Product features

Min. number of insertion cycles	750
IP protection rating	IP 20
Installation temperature min.	-40 °C
Max. assembly temperature	85 °C
Operating temperature min.	-40 °C

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Operating temperature max.	85 °C
UV-resistant	No
Contact type application	Data / Signals
Strain relief	Yes
Ethernet cable category	Cat.6A

Certifications and standards

CE marking	No
EAC certified	Not required
EAC certification number	Отказное письмо № 39
UL recognized	No
UL listed	Yes
cUR recognized	No
cUL listed	Yes
Product standard according to IEC	RJ45 according to IEC 60603-7-51

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EPIC® DATA RJ45

Article No.	Name	Ethernet cable category	Connector housing design	Colour coding wire manager	Strain relief with	Connectable conductor cross section solid-core min. (AWG)	Connectable conductor cross section solid-core max. (AWG)	Connectable conductor cross section stranded min. (AWG)	Max. connectable fine-wire conductor cross-section (AWG)	Connectable conductor cross section finely stranded min. (AWG)	Max. connectable conductor cross-section extra-fine wire (AWG)	For min. cable outer diameter	For max. cable outer diameter	Delivery Unit
21700600	ED-IE-AX-6A-A-20-FC	Cat.6A	Straight	TIA 568A	Clamp lever	24 AWG	22 AWG	27 AWG	22 AWG			0.197 in	0.354 in	10
21700601	ED-IE-AX-6A-B-20-FC	Cat.6A	Straight	TIA 568B	Clamp lever	24 AWG	22 AWG	27 AWG	22 AWG			0.197 in	0.354 in	10
21700605	ED-IE-AX-5-PN-20-FC	Cat.5	Straight	PROFINET®	Clamp lever	24 AWG	22 AWG	27 AWG	22 AWG			0.197 in	0.354 in	10
21700615	ED-IE-AX-6A-A-20-FD-FC	Cat.6A	Straight	TIA 568A	Clamp lever	26 AWG	24 AWG	27 AWG	24 AWG	26 AWG	26 AWG	0.197 in	0.354 in	10
21700616	ED-IE-AX-6A-B-20-FD-FC	Cat.6A	Straight	TIA 568B	Clamp lever	26 AWG	24 AWG	27 AWG	24 AWG	26 AWG	26 AWG	0.197 in	0.354 in	10
21700636	ED-IE-90-6A-A-20-FC	Cat.6A	Angled	TIA 568A	Cable gland	22 AWG	24 AWG	27 AWG	22 AWG			0.217 in	0.394 in	1
21700637	ED-IE-90-6A-B-20-FC	Cat.6A	Angled	TIA 568B	Cable gland	24 AWG	22 AWG	27 AWG	22 AWG			0.217 in	0.394 in	1
21700638	ED-IE-90-6A-PN-20-FC	Cat.6A	Angled	PROFINET®	Cable gland	24 AWG	22 AWG	27 AWG	22 AWG			0.197 in	0.354 in	1
	ED-IE-90-6A-													

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Article No.	Name	Ethernet cable category	Connector housing design	Colour coding wire manager	Strain relief with	Connectable conductor cross section solid-core min. (AWG)	Connectable conductor cross section solid-core max. (AWG)	Connectable conductor cross section stranded min. (AWG)	Max. connectable fine-wire conductor cross-section (AWG)	Connectable conductor cross section finely stranded min. (AWG)	Max. connectable conductor cross-section extra-fine wire (AWG)	For min. cable outer diameter	For max. cable outer diameter	Delivery Unit
21700639	A-20-FD-FC	Cat.6A	Angled	TIA 568A	Cable gland	26 AWG	24 AWG	27 AWG	24 AWG	26 AWG	26 AWG	0.217 in	0.394 in	1
21700640	ED-IE-90-6A-B-20-FD-FC	Cat.6A	Angled	TIA 568B	Cable gland	26 AWG	24 AWG	27 AWG	24 AWG	26 AWG	26 AWG	0.217 in	0.394 in	1
21700651	ED-IE-AXS-5-PN-20-FC	Cat.5	Straight	PROFINET®	Cable gland	24 AWG	22 AWG	27 AWG	22 AWG			0.217 in	0.394 in	1
21700652	ED-IE-AXS-6A-A-20-FC	Cat.6A	Straight	TIA 568A	Cable gland	24 AWG	22 AWG	27 AWG	22 AWG			0.217 in	0.394 in	1
21700653	ED-IE-AXS-6A-B-20-FC	Cat.6A	Straight	TIA 568B	Cable gland	24 AWG	22 AWG	27 AWG	22 AWG			0.217 in	0.394 in	1
21700654	ED-IE-AXS-6A-A-20-FD-FC	Cat.6A	Straight	TIA 568A	Cable gland	26 AWG	24 AWG	27 AWG	24 AWG			0.217 in	0.394 in	1
21700655	ED-IE-AXS-6A-B-20-FD-FC	Cat.6A	Straight	TIA 568B	Cable gland	26 AWG	24 AWG	27 AWG	24 AWG			0.217 in	0.394 in	1
381166930	ED-IE-AXS-8.1A-B-20-FD-FC	Cat.8.1	Straight	TIA 568B	Cable gland	26 AWG	24 AWG	27 AWG	24 AWG			0.217 in	0.394 in	1
	ED-IE-AXS-8.1													

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Article No.	Name	Ethernet cable category	Connector housing design	Colour coding wire manager	Strain relief with	Connectable conductor cross section solid-core min. (AWG)	Connectable conductor cross section solid-core max. (AWG)	Connectable conductor cross section stranded min. (AWG)	Max. connectable fine-wire conductor cross-section (AWG)	Connectable conductor cross section finely stranded min. (AWG)	Max. connectable conductor cross-section extra-fine wire (AWG)	For min. cable outer diameter	For max. cable outer diameter	Delivery Unit
381166931	A-B-20-FC	Cat.8.1	Straight	TIA 568B	Cable gland	24 AWG	22 AWG	27 AWG	22 AWG			0.217 in	0.394 in	1

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