

21700632	DATA SHEET	
Valid from: 17.09.2018	EPIC® DATA ED-IE-RJ45F-6A-B-68-FC	

Description

- Field mountable RJ45-jack, Cat.6_A, shielded
- IP68*-housing included
- Pin assignment EIA/TIA-568B
- For industrial Ethernet



General characteristics

Connection method, connector	RJ45-jack, field mountable
Number of pins	8
Ambient temperature	-40°C to +85°C (-40°F to 185°F)
Degree of protection	IP 68* (0.5h / 20 m)
Shielding	Shielded
For conductor	AWG22/1 to AWG24/1 AWG22/7 to AWG27/7
For insulation-Ø	Ø0.85 mm to Ø1.6 mm
For cable-Ø	Ø6.5 mm to Ø9.0 mm
Life (mating cycles) IP68 housing	≥100
Reusable IDC (RJ45-jack)	≤4

Additional Note

* IP68 only in combination with 21700630 and 21700632 or 21700632 and 21700633

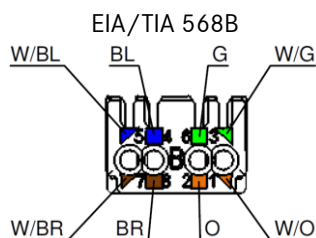
Electrical properties

Rated voltage	50 VAC / 60 VDC (max.)
Rated current at 50 °C	1 A
Pollution degree	2
Contact resistance	≤ 20 mΩ
Insulation resistance	≥ 500 MΩ
Withstand voltage	≥ 1000 VDC contact to contact ≥ 1500 VDC contact to shield

Transmission characteristics

Category (ISO)	6 _A
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Connector pin assignment



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Mechanical properties

IP68-bulkhead housing

Bulkhead housing, material

Brass, Ni plated

O-ring, material

Silicone red

RJ45-jack

Inflammability class according to UL 94

V0

Connector housing, material

Zink die cast, Ni plated

Snap arm für cable trap, material

PC black

Slide for shield contact, material

PC black

Shield

German silver

Wire pre-sorting, material

PBT white

Insulating plate/body, material

PC white

PCB, material

FR4, tin-plated

Contact spring, material

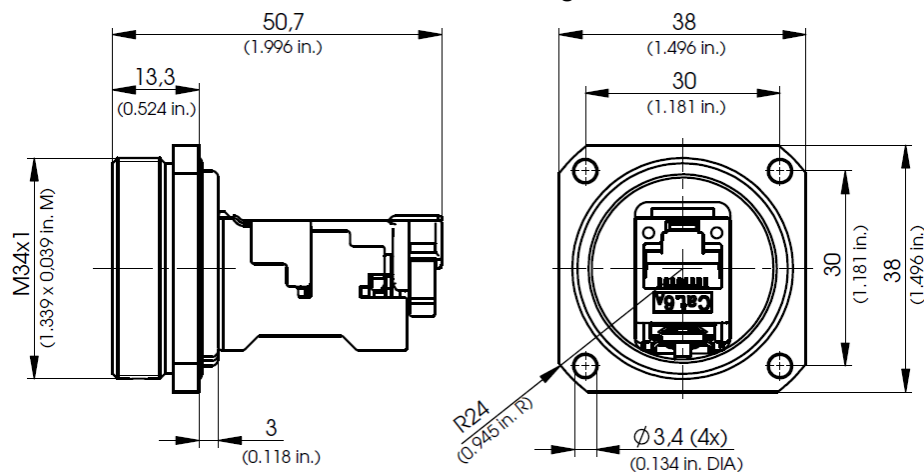
Spring steel

IDC, material

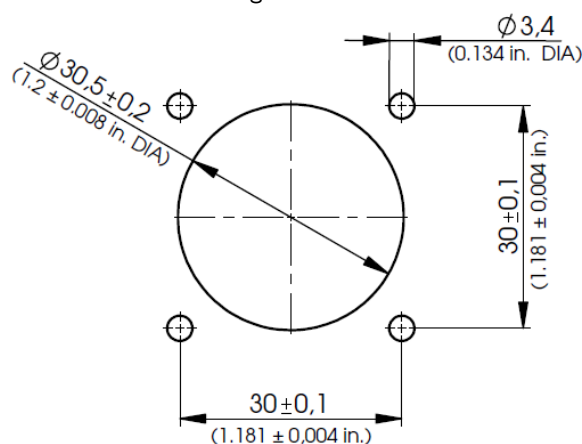
Copper alloy, Sn plated

Technical drawing

Dimension drawing



Flange-dimension



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Standards / Approval

Product standard, RJ45-connector	IEC 60603-7-51
Generic cabling for customer premises – General requirements	ISO/IEC 11801
Transmission rate up to 10Gbit	acc. IEEE 802.3an
POE+	acc. IEEE 802.3at

Application range

Automation, industrial machinery and plant engineering

Note

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

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