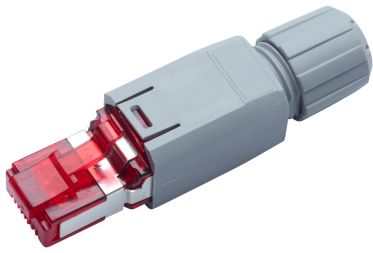


**Plug FM45 Cat.6A shielded or unshielded AWG 22 to 26 IP20
568A/B plastic housing R&M**



090.7437

DESCRIPTION

- Field terminated RJ45 connector
- Termination of unshielded cable (UTP)
- Termination of shielded cable (STP)
- Approved for solid and stranded wire AWG 22 to AWG 26
- Optional visual colour coding clip
- Plug FM45 Cat.6A
- Plastic housing with nut
- Copper foil
- Installation instructions

TECHNICAL DATA

DESCRIPTION	VALUE/VALUE RANGE
Standard / norm	ISO/IEC 11801 IEC 60603-7-41/51 EN 50173 ANSI/TIA-568.2 PoE (IEEE 802.3af), PoEP (IEEE 802.3at), 4Ppoe (IEEE 802.3bt) IEC 60512-00-001/002
Protection class IP	IP 20
Category	Cat. 6A ISO
Wiring diagram	T568A and T568B
Cable overall diameter	4.5 - 8.0mm
Number of wires	8
Wire type	Wire or stranded wire
Colour Coding	Yes, optional
Dust Protection	No
Cable Strain Relief	50 N
Re-termination	≥4 according IEC 60352-4 Re-terminations may be performed with wire of either larger or equal size than originally terminated.
Contact Surface	>1.2µm gold over 1.2µm nickel
Contact material	Bronze (CuSn6)
Pollution Degree	2 according to IEC 61010-1
UL Classification	UL94-V0
Wire diameter	Wire: 0.4 - 0.61mm Stranded wire: 0.12mm ² - 0.32mm ²

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DESCRIPTION	VALUE/VALUE RANGE
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Approved wire diameter with insulation 1.6 mm / 0.063 in

Plug type twisted pair RJ45

MECHANICAL DATA

DESCRIPTION	VALUE/VALUE RANGE
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Dimensions 59.0 mm x 14.0 mm x 14.6 mm / 2.323 in x 0.551 in x 0.575 in (W x H x D)

Color Plug: transparent
Housing: traffic gray (RAL 7042)

Material Polycarbonate (plug) polyamide (housing)

Mating Cycles > 750

CLIMATIC DATA

DESCRIPTION	VALUE/VALUE RANGE
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Operation temperature -20 °C to +70 °C / -4 °F to +158 °F

ELECTRICAL DATA

DESCRIPTION	VALUE/VALUE RANGE
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Contact Resistance Wire - IDC < 1mΩ
Stranded wire - IDC < 5mΩ
Signal contact - screen < 20mΩ

Input-Output Resistance 100 mΩ

Insulation Resistance > 1GΩ (100V)

Dielectric Strength Contact - contact >1000VDC
Shield - contact >1500VDC, 1min.

Nominal Current 1.55A @20°C

Overvoltage Category I according to IEC 60664-1

Field-terminated RJ45 plug connector, shielded and unshielded, Cat.6A 8-pole, terminated in IDC technology, suitable for solid or stranded wires, 2- to 8-wire conductors of diameter AWG 22 to AWG 26 (AWG 22/7 - 26/7), housing IP20, for cable diameters of 4.5mm to 8.0mm, coding in acc. with TIA 568A/B.