

## Plug FM45 Cat.6A shielded or unshielded AWG 22 to 26 IP20 568A/B metal housing



090.7435

**SCOPE OF SUPPLY**

- Plug FM45 Cat.6A
- Metal housing
- Copper foil
- Installation instructions

**TENDER**

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 10mm, coding in acc. with TIA 568A/B.

**TECHNICAL DATA**

DESCRIPTION	VALUE / VALUE RANGE
Wire type	Wire or stranded wire
Conductor Construction	AWG 22 - 26
Wire diameter	Wire: 0.4 - 0.61mm Stranded wire: 0.12mm <sup>2</sup> - 0.32mm <sup>2</sup>
Number of wires	8
Cable overall diameter	4.5 - 10mm
Shield jacket material	Brass (CuZn) hot-dip galvanized, 3µm
Pollution Degree	2 according to IEC 61010-1
Dust Protection	No
Wiring diagram	T568A and T568B
Colour Coding	Yes, optional
Contact material	Bronze (CuSn6)
Contact Surface	>1.2µm gold over 1.2µm nickel
Re-termination	≥4 according IEC 60352-4 Re-terminations may be performed with wire of either larger or equal size than originally terminated.
UL Classification	UL94-V0
Standard	ANSI/TIA-568.2 PoE (IEEE 802.3af), PoEP (IEEE 802.3at), 4Ppoe (IEEE 802.3bt) IEC 60512-00-001/002 ISO/IEC 11801

EN 50173

IEC 60603-7-41/51

Approved wire diameter with insulation

1.6 mm / 0.063 in

### MECHANICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Dimensions	56.2 mm x 13.9 mm x 14.5 mm / 2.213 in x 0.547 in x 0.571 in (W x H x D)
Design	straight
Color	Plug: transparentHousing: silver
Connection Type	IDC according IEC 60352-4*, tin-plated, approx. 5µm*Re-terminations may be performed with wire of either larger or equal size than originally terminated.
Mating Cycles	> 750
Material	Polycarbonate (plug) polyamide (housing)

### ELECTRICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Nominal Current	1.55A @20°C
Input-Output Resistance	< 100 mΩ
Insulation Resistance	> 1GΩ (100V)
Contact Resistance	Wire - IDC < 1mΩStranded wire - IDC < 5mΩSignal contact - screen < 20mΩ
Dielectric Strength	Contact - contact >1000VDCShield - contact >1500VDC, 1min.

### ENVIRONMENTAL DATA

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