Data sheet R888230

Plug FM45 EL Cat.6A shielded or unshielded AWG22 to 26 IP20 metal housing



DESCRIPTION

Standard version, suitable for standard applications.

Slim version, suitable for high density applications.

Intuitive, fast and robust - New generation of field mountable RJ45 plug connector, with unlatching catch protection lever and robust die cast housing, shielded and unshielded, Cat.6A 8-pole, IDC termination technology, suitable for solid or stranded wires, 2 to 8-wire conductors of diameter AWG 22 to AWG 26 (AWG 22/7 - 26/7), die cast housing IP20, for cable diameters of 5 to 9 mm, printed color coding acc. TIA 568A/B. Each set packed in environmentally friendly paper bag with installation guide printed directly onto the paper bag. DNV and UL approved.

PoE optimized R&M PowerSafe seal granted.

SCOPE OF SUPPLY

- Field mountable RJ45 plug
- Wiring element and nut with clamping ring 6-9 mm
- Strain-relieve clamping ring for cable diameter 5-8 mm

FEATURES

- Field mountable RJ45 plug
- Environmentally friendly paper bag packaging
- Robust die cast housing
- Product information printed directly onto paper bag
- Intuitive and fast termination of unshielded cable (UTP)
- Intuitive and fast termination of shielded cable (STP)
- Installation guide accessible via QR code printed onto paper bag
- Unique QR Code sticker for individual quality traceability
- Approved for solid and stranded wire AWG 22 to AWG 26
- Unlatching lever / latch protection

TENDER

Intuitive, fast and robust - New generation of field mountable RJ45 plug connector, with unlatching catch protection lever and robust die cast housing, shielded and unshielded, Cat.6A 8-pole, IDC termination technology, suitable for solid or stranded wires, 2 to 8-wire conductors of diameter AWG 22 to AWG 26 (AWG 22/7 - 26/7), die cast housing IP20, for cable diameters of 5 to 9 mm, printed color coding acc. TIA 568A/B. Each set packed in environmentally friendly paper bag with installation guide printed directly onto the paper bag. DNV and UL approved.

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TECHNICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Wire type	Wire or stranded wire

Conductor Construction	AWG 22 - 26
Wire diameter	Wire: 0.4 - 0.61mmStranded wire: 0.12mm2 - 0.32mm2
Approved wire diameter with insulation	1.6 mm / 0.063 in
Number of wires	8
Cable overall diameter	5.0 - 9.0 mm
Protection class IP	IP 20
PoE	Yes
PoE Level	4
PowerSafe	Yes
Pollution Degree	2 according to IEC 61010-1
Dust Protection	No
Wiring diagram	EIA/TIA 568A/B
Colour Coding	Yes
Contact material	Bronze (CuSn6)
Contact Surface	>1.2µm gold over 1.2µm nickel
Re-termination	≥4 according IEC 60352-4Re-terminations may be performed with wire of either larger or equal size than originally terminated.

MECHANICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Dimensions	14 mm x 18 mm x 46 mm / 0.551 in x 0.709 in x 1.811 in (W x H x D)
Design	straight
Color	silver / gray
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

ELECTRICAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Nominal Current	1.55 A @ 20°C
Input-Output Resistance	< 100 Ω
Insulation Resistance	> 1 GΩ (100V)
Contact Resistance	< 20 mΩ
Dielectric Strength	Contact - contact >1000VDCShield - contact >1500VDC, 1min.
Standard	ANSI/TIA-568.2-D
	EN 50173
	IEC 60603-7-41/51
	ISO/IEC 11801
	PoE (IEEE 802.3af), PoEP (IEEE 802.3at), 4PpoE (IEEE 802.3bt)

ENVIRONMENTAL DATA

DESCRIPTION	VALUE / VALUE RANGE
Operation temperature	-40 °C to +85 °C / -40 °F to +185 °F