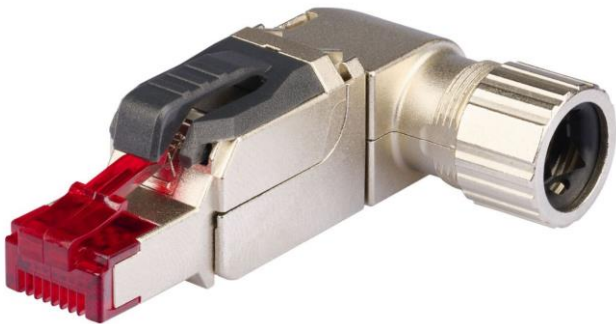


FM45 EL Cat. 6A Plug, Angled Version



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
- Die-cast halves, (male & female part)

GENERAL DESCRIPTION

Intuitive, fast and robust - New generation of angled 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. PoE optimized – R&M PowerSafe seal granted.

FEATURES

- Field mountable RJ45 plug
- Robust die cast housing
- Intuitive and fast termination of unshielded cable (UTP)
- Intuitive and fast termination of shielded cable (STP)
- Approved for solid and stranded wire AWG 22 to AWG 26
- Angled 90°, 4 position options
- Environmentally friendly paper bag packaging
- Product information printed directly onto paper bag
- Installation guide accessible via QR code printed onto paper bag
- Unique QR Code sticker for individual quality traceability
- Unlatching lever / latch protection

PRODUCT-NO	PRODUCT DESCRIPTION	PACKING UNIT
R886069	Plug FM45 ELC6A su 22-26 IP20 AB am	20 pcs./ctn.

STANDARDS

- ISO/IEC 11801
- IEC 60603-7-2/3
- EN 50173
- ANSI/TIA 568.2
- IEC 60512-00-001/002
- PoE (IEEE 802.3af), PoEP (IEEE 802.3at), 4PPoE (IEEE 802.3bt)

MATERIAL

DESCRIPTION	VALUE / VALUE RANGE
Housing	Zinc die cast
Connector	Polycarbonate
Unlatching lever / Latch protection	Polycarbonate

FM45 EL Cat. 6_A Plug, Angled Version

TECHNICAL DATA

DESCRIPTION	VALUE / VALUE RANGE	STANDARD
Approved solid wire Ø	0.4 mm – 0.61 mm	AWG 26 – AWG 22
Approved stranded wire Ø	0.12 mm ² - 0.32 mm ²	AWG 26/7 – AWG 22/7
Approved insulation cable Ø	max. 1.60 mm	
Cable jacket Ø	5.0 mm – 9.0 mm	
Shield lance	Tinned Bronze (CuSn6)	
Housing colour	Silver (metal)	
UL classification	pending	
Re-termination	≥4 Re-terminations may be performed with wire of either larger or equal size than originally terminated	IEC 60352-4

MECHANICAL DATA

DESCRIPTION	VALUE / VALUE RANGE	STANDARD
Number of wire	Max. 8	
Contact material	Tinned Bronze (CuSn8)	
Contact surface	> 1.2 µm gold over 1.2 µm nickel	
Mating cycles	> 750	IEC 60603-7
Connection type	IDC/Insulation displacement contact	IEC 60352-4
Surface treatment	IDC tin-plated approx. 5 µm	
Protection rating	IP20	
Wiring diagramm		TIA568A and TIA568B

ELECTRICAL DATA

DESCRIPTION	VALUE / VALUE RANGE	STANDARD
Contact resistance (solid wire – IDC)	< 1 mΩ	IEC 60352-4
Contact resistance (stranded wire – IDC)	< 5 mΩ	IEC 60352-4
Contact resistance Signal contacts and screen (plug-jack)	< 20 mΩ	IEC 60603-7 (for contacts) IEC 60603-7-1 (for shield)
Input-output resistance (plug only)	< 100 mΩ	IEC 60603-7
Insulation resistance	> 1 GΩ (100 V)	IEC 60603-7
Dielectric strength (contact to contact)	> 1000 VDC	IEC 60603-7
Dielectric strength (shield to contact)	> 1500 VDC, 1min.	IEC 60603-7-1
Nominal current	1.55 A @ 20°C	IEC 60603-7
Pollution degree	2	IEC 61010-1

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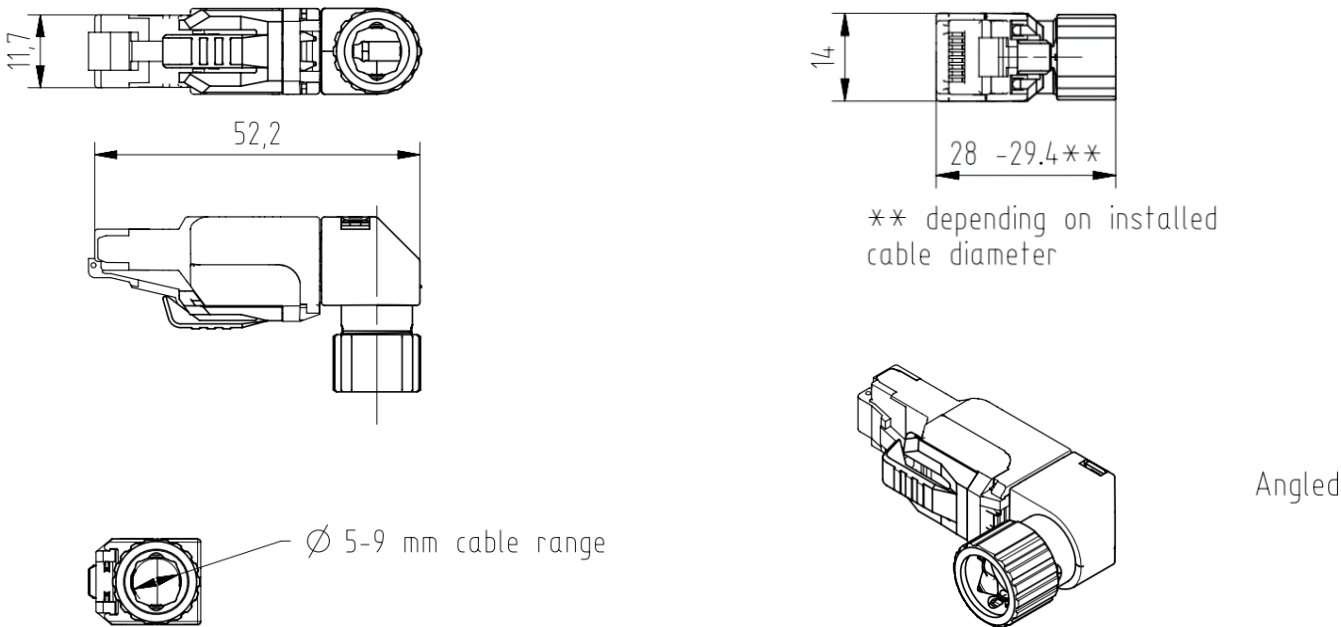
CLIMATICAL DATA

DESCRIPTION	VALUE / VALUE RANGE	STANDARD
Temperature range, operational	-20 °C ... +85 °C	

ENVIRONMENTAL PROPERTIES

DESCRIPTION	VALUE / VALUE RANGE	STANDARD
RoHS	Fulfilled	
REACH	Fulfilled	

TECHNICAL DRAWING



DIMENSIONS

DESCRIPTION	VALUE
Angled type (length x width x height)	Max. 52.2x14x29.4 mm

PACKAGING INFORMATION

DESCRIPTION	UNIT
Paper bag	1 pc
Cardboard box	20 pcs.