



Pushing Performance
Since 1945

RJ45 MF RJ45 plug Cat6A, 8p IDC straight

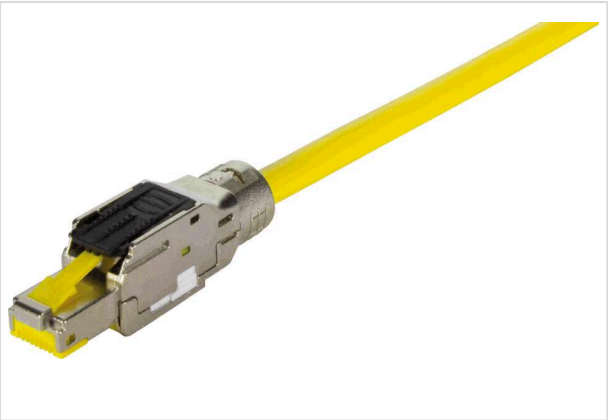


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Part number	09 45 151 1570
Specification	RJ45 MF RJ45 plug Cat6A, 8p IDC straight
HARTING eCatalogue	https://harting.com/09451511570

Identification

Category	Connectors
Series of hoods/housings	HARTING RJ Industrial®
Element	Connector
Specification	PROFINET Multi Feature RJ45 Straight
Features	Suitable for all PoE versions

Version

Termination method	IDC insulation displacement termination
Shielding	Fully shielded, 360° shielding contact
Number of contacts	8

Technical characteristics

Conductor cross-section	0.12 ... 0.32 mm² Stranded 0.12 ... 0.32 mm² Solid
Conductor cross-section [AWG]	AWG 26/7 ... AWG 22/7 Stranded AWG 26/1 ... AWG 22/1 Solid
Wire outer diameter	0.8 ... 1.6 mm
Rated current	1.76 A
Rated voltage	50 V AC 60 V DC
Transmission characteristics	Cat. 6A Class E _A up to 500 MHz



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Technical characteristics

Data rate	10 Mbit/s
	100 Mbit/s
	1 Gbit/s
	2.5 Gbit/s
	5 Gbit/s
	10 Gbit/s
Insulation resistance	$> 5 \times 10^9 \Omega$
Contact resistance	$\leq 20 \text{ m}\Omega$
Contact resistance, shielding	$\leq 100 \text{ m}\Omega$
Limiting temperature	$-40 \dots +85 \text{ }^\circ\text{C}$
Relative humidity	95 % Non-condensing (operation)
Insertion force	$\leq 25 \text{ N}$
Withdrawal force	$\leq 25 \text{ N}$
Mating cycles	≥ 750
Degree of protection acc. to IEC 60529	IP20
Cable diameter	4.5 ... 9 mm
Test voltage U_{DC}	1 kV (contact-contact)
	1.5 kV (contact-ground)
Vibration resistance	10-500 Hz, 0.35 mm / 50 m/s ² , 2h/axis
	5.72 m/s ² acc. to IEC 61373 Category 1 Class B
Shock resistance	50 g / 30 ms, 3 shocks / axis and direction acc. to IEC 61373 Category 1 Class B

Material properties

Material (insert)	Polycarbonate (PC)
Material (contacts)	Copper alloy
Surface (contacts)	Au over Ni Mating side
	Sn over Ni Termination side
Material (hood/housing)	Zinc die-cast
Surface (hood/housing)	Nickel plated
Colour (hood/housing)	silver
Material flammability class acc. to UL 94	V-0
RoHS	compliant
ELV status	compliant
China RoHS	e
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained



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Material properties

REACH SVHC substances	Not contained
California Proposition 65 substances	Not contained

Specifications and approvals

Specifications	IEC 60603-7 Mating face
	ISO/IEC 11801
	EN 50173-1
UL / CSA	UL 1977 ECBT2.E102079
	CSA-C22.2 No. 182.3 ECBT8.E102079
Approvals	DNV GL
PROFINET	Yes

Commercial data

Packaging size	1
Net weight	32.639 g
Country of origin	Latvia
European customs tariff number	85366990
GTIN	5713140224339
eCl@ss	27440114 Rectangular connector (for field assembly)
ETIM	EC002636
UNSPSC 24.0	39121408