



Pushing Performance
Since 1945

RJ45 10G RJ45 plug Cat6, 8p IDC straight



Image is for illustration purposes only. Please refer to product description.

Part number	09 45 151 1560
Specification	RJ45 10G RJ45 plug Cat6, 8p IDC straight
HARTING eCatalogue	https://harting.com/09451511560

Identification

Category	Connectors
Series	HARTING RJ Industrial® RJ45
Element	Cable connector
Specification	PROFINET 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 (mm²)	0.1 ... 0.32 mm² solid and stranded
Conductor cross-section (AWG)	AWG 27/7 ... AWG 22/7 Stranded AWG 27/1 ... AWG 22/1 Solid
Wire outer diameter	≤1.6 mm
Rated current	1.75 A
Rated voltage	50 V AC 60 V DC
Transmission characteristics	Cat. 6 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	$\leq 20 \text{ m}\Omega$
Limiting temperature	-40 ... +70 °C
Relative humidity	95 % Non-condensing (operation)
Insertion force	25 N
Withdrawal force	25 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, 5 g, 0.35 mm, 2h/axis
	7.9 m/s ² acc. to IEC 61373 Category 1 Class B
Shock resistance	25 g / 11 ms, 5 shocks / axis and direction acc. to IEC 61373 Category 1 Class B

Material properties

Material (insert)	Thermoplastic resin (PBT)
Colour (insert)	Yellow
Material (contacts)	Copper alloy
Material (hood/housing)	Polyamide (PA)
Colour (hood/housing)	Black
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
REACH SVHC substances	Yes
REACH SVHC substances	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one
ECHA SCIP number	d361ed36-dee0-4df8-9f2e-b62dd7563c1a



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Material properties

California Proposition 65 substances	Not contained
Fire protection on railway vehicles	EN 45545-2 (2020-08) + A1 (2023-10)
Requirement set with Hazard Levels	R26

Specifications and approvals

Specifications	IEC 60603-7 Mating face
	ISO/IEC 11801
	EN 50173-1
	EN 45545-2
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	20.29 g
Country of origin	Romania
European customs tariff number	85366990
GTIN	5713140059443
eCl@ss	27440114 Rectangular connector (for field assembly)
ETIM	EC002636
UNSPSC 24.0	39121408