Pushing Performance

PushPull V4 plug, Signal, 10-pol, Kunsts

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

Part number	09 45 145 9011
Specification	PushPull V4 plug, Signal, 10-pol, Kunsts
HARTING eCatalogue	https://b2b.harting.com/09451459011

Identification

Category	Connectors
Series	HARTING PushPull (V4)
Identification	Signal
Element	Cable connector

Version

Termination method	Crimp termination
Shielding	Fully shielded, 360° shielding contact
Number of contacts	10
Locking type	PushPull
Pack contents	incl. plastic housing and female insert

Technical characteristics

Conductor cross-section	0.13 ... 0.82 mm²
Conductor cross-section	AWG 26 ... AWG 18
Wire outer diameter	≤2.1 mm
Contact spacing (termination side)	2.4 mm 3 mm
Contact spacing (mating side)	2.4 mm 3 mm
Rated current	5 A
Rated voltage	50 V
Rated impulse voltage	1.5 kV
Pollution degree	3

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Technical characteristics

Transmission characteristics	Cat. 5 Class D up to 100 MHz
Data rate	10 Mbit/s 100 Mbit/s
Clearance distance	≥1.1 mm
Creepage distance	≥1.1 mm
Insulation resistance	$>10^9$ Ω
Contact resistance	≤10 mΩ
Tightening torque	1.3 ... 1.5 Nm
Limiting temperature	-40 ... +85 °C
Insertion force	50 N
Withdrawal force	50 N
Mating cycles	≥500
Degree of protection acc. to IEC 60529	IP65 IP67
Cable diameter	4.5 ... 10 mm
Test voltage $U_{r.m.s.}$	1.5 kV (contact-contact) 1.5 kV (contact-ground)
Isolation group	I (600 ≤ CTI)
Vibration resistance	10-500 Hz, 5 g, 0.35 mm, 2h/axis 5.72 m/s² acc. to IEC 61373 Category 1 Class B
Shock resistance	25 g / 11 ms, 3 shocks / axis and direction 5 g / 30 ms, 5 shocks / axis and direction acc. to IEC 61373 Category 1 Class B

Material properties

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	No
REACH ANNEX XIV substances	No
REACH SVHC substances	No
California Proposition 65 substances	Yes

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Material properties

California Proposition 65 substances	Nickel Naphthalene

Specifications and approvals

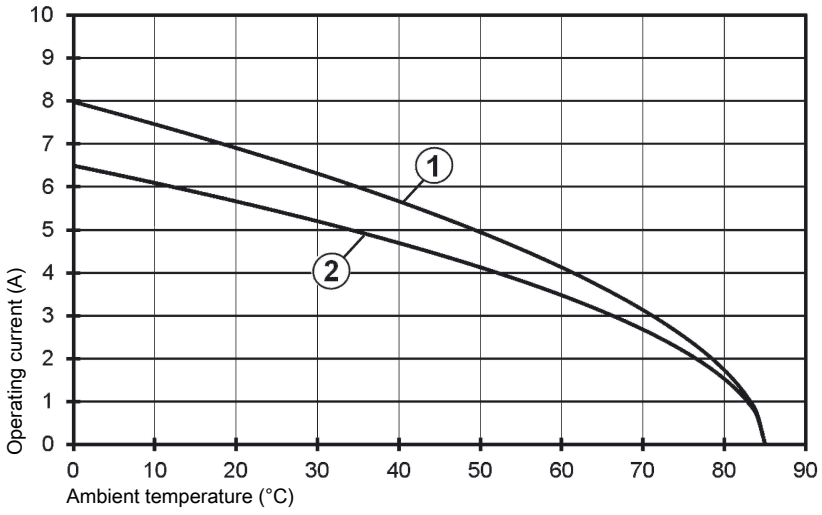
Specifications	IEC 61076-3-106 Variant 4 (V4) EN 45545-2 R26: HL1, HL2, HL3
Approvals	DNV GL
UL / CSA	UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079

Commercial data

Packaging size	10
Net weight	37.85 g
Country of origin	Romania
European customs tariff number	85366990
eCl@ss	27440101 Rectangular connectors (set)

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques acc. to IEC 60512-5-2



① Turned
② Stamped
Conductor cross-section 0.75 mm²

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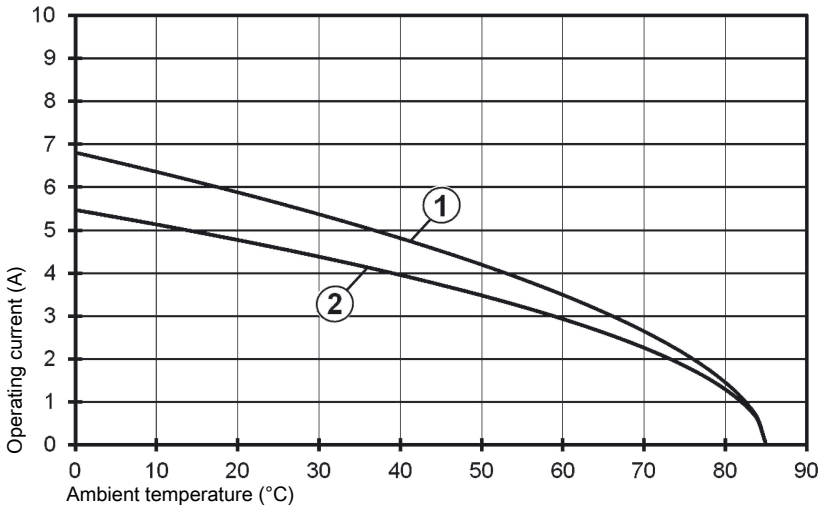

① Turned
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Conductor cross-section 0.5 mm²

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