Pushing Performance
Since 1945

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://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 (mm²)	0.13 ... 0.82 mm²
Conductor cross-section (AWG)	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
Storage temperature	+5 ... +50 °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	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Not contained

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Material properties

California Proposition 65 substances	Yes
California Proposition 65 substances	Nickel Naphthalene
Fire protection on railway vehicles	EN 45545-2 (2020-08) + A1 (2023-10)
Requirement set with Hazard Levels	R26

Specifications and approvals

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

Commercial data

Packaging size	10
Net weight	43.6 g
Country of origin	Romania
European customs tariff number	85366990
GTIN	5713140223578
eCl@ss	27440114 Rectangular connector (for field assembly)
ETIM	EC002636
UNSPSC 24.0	39121408

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