

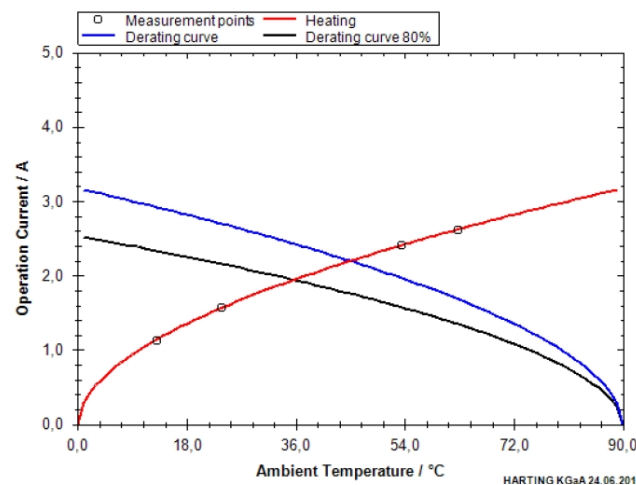
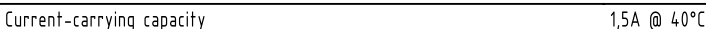
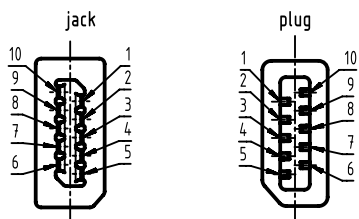


Design	Cable to Board for non ethernet communication e.g. signals & serial bus systems
Product standard	IEC 61076-3-124 (Type B)
No. of contacts	10
Shielding	Fully shielded, 360° shielding contact
Degree of protection	IP20
Mating cycles	Min. 5.000
UL/CSA	UL 1977 ECBT2.E102079/ CSA-C22.2 No 182.3 ECBT8.E102079
RoHS-compliant	Yes
Lead free	Yes

Cable diameter	5,5 to 7,2 mm		
P/N	09451819000	09451819001	09451819002
Connection type	solder	IDC	IDC
Conductor cross section	AWG 28 - 22	AWG 28/7 - 26/7	AWG 24/7
Conductor diameter	max. 1,55 mm	0,95 - 1,05 mm	1,1 - 1,25 mm

Rated current	1,5A - (all pins) values at 40°C
	3A - 4 pins of contacts no. 1, 2, 6 and 7
Rated voltage	50 V AC / 60 V DC
Contact resistance (100 mA max. (DC or 1000 Hz))	Contact: 30 mΩ max. Shield: 100 mΩ max.
Insulation resistance	500 MΩ min. (500 V DC)
Voltage proof	500 V DC (for 1 min. current leakage max. 2 mA)

pin assignment	front view of connector Type B
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The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.

The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60 512.

Insertion force	Max. 25 N
Withdrawal force	Max. 25 N
Mechanical Operation	5,000 times insertions and extractions Mating speed: 10 mm/s max. Rest: 5s,min. (unmated)
Lock Strength	Min. 80 N (for the mating axis direction in state in fitted with applicable connector)
Wrenching Strength	Applying 25times of 30 N 1 s for 2 axis direction on tip of plug case in state in fitted with applicable connector

Storage temperature range	-30°C to +60°C (95% RH max.)
Operating temperature range	-40°C to +85°C (95% RH max.)
Rapid change of temperature (IEC 60512-11d)	10 cycles between -55°C and 85°C with 30 minutes dwell at temp. extremes and 1 minute transition between temperatures
Dry heat (IEC 60512-11i)	Temperature 85°C, duration 500 h
Damp heat cyclic (IEC 60068-2-38)	25°C to 65°C; cold sub-cycle - 10°C; humidity 93 % RH 25 cycles, 1 cycle/24 h
Cold (IEC 60512-11j)	-55°C duration 240 h
Flow mixed gas test (IEC 60068-2-60)	Duration 4 d, Method 4 (mated and unmated)
Corrosion salt mist	Exposed at 5 % salt water, 35 ± 2°C, duration 48 h
Vibration Sinusoidal (IEC 60512-test 6d)	10 - 500 Hz; 0,35 mm; 49 m/s ² 2 h / 3 axis; No contact disturbances ≥ 1 µs
Mechanical shock (IEC 60512-test 6c)	Half sine shock 500 m/s ² , duration 11 ms 3 shocks / both directions / 3 axis - totally 18 shocks; No contact disturbances ≥ 1 µs
Mechanical shock (DIN EN 61373 Class 1 cat b) Additional test to fulfill DIN EN 50155 for railway equipment	Half sine shock 5 g, duration 30 ms 5 shocks / both directions / 3 axis - totally 30 shocks; No contact disturbances ≥ 1 µs
Random vibration (DIN EN 61373 Class 1 cat b) Additional test to fulfill DIN EN 50155 for railway equipment	Class 1 cat b 5,72 m/s ² ; No contact disturbances ≥ 1 µs
Fretting Corrosion	490 m/s ² , 30 times/min at 1.000 times; No contact disturbances ≥ 1 µs



All Dimensions in mm
Original Size DIN A3

Scale
1:1

Free size tol.

Ref.

Sub.



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Department FI PD

HARTING Electronics GmbH

D-32339 Espelkamp

Created by

402602

Title HARTING ix Industrial® type B

Type DS

Inspected by
20150728

PRIESTER

Standardisation

KUHLEK

Date _____

2020-06-03

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Final Release

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