



HARTING ix Industrial® type A



General information

Table with 2 columns: Design, Product standard, No. of contacts, Transmission rate, Transmission performance, Shielding, Degree of protection, Mating cycles, UL/CSA, RoHS-compliant, Lead free.

Cable specification

Table with 6 columns: Cable diameter, P/N, Connection type, Conductor cross section, Conductor diameter, Note.

Electrical specification

Table with 2 columns: Rated current, Rated voltage, Contact resistance, Insulation resistance, Voltage proof, Mechanical operation with electrical load, PoE.

Pin and pair grouping assignment

pin assignment front view of connector Type A

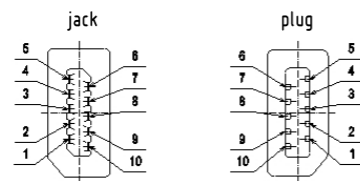
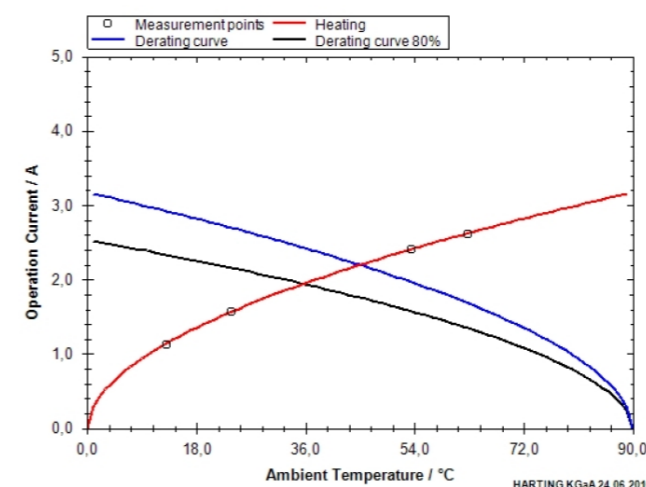


Table mapping Pin No. ix to 10BASE-T, 1/10BASE-T, EIA/TIA 568A, EIA/TIA 568B, and Industrial (PROFINET) colors.

Derating diagram acc. to IEC512 (Current carrying capacity)

Current-carrying capacity 1,5A @ 40°C



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.

Mechanical specification

Table with 2 columns: Insertion force, Withdrawal force, Mechanical Operation, Lock Strength, Wrenching Strength.

Environment specification

Table with 2 columns: Storage temperature range, Operating temperature range, Rapid change of temperature, Dry heat, Damp heat cyclic, Cold, Flow mixed gas test, Corrosion salt mist, Vibration Sinusoidal, Mechanical shock, Mechanical shock (DIN EN 61373), Random vibration, Fretting Corrosion.

Technical drawing metadata including dimensions, scale, department, title, date, and revision information.



HARTING ix Industrial® type A



Packaging specification

Material PE + PS

Material specification

Isolator material plug

Part	Cover Case	Plug Unit	Guide
Material	PC	PA	PA
Color	Dark Grey	Black/Grey	Clear/Clear Yellow/Clear Blue
UL classification	UL94 V-0	UL94 V-0	UL94 V-0

Isolator material jack

P/N	09452812560	09452812561	09452812562
Material	LCP	LCP	PA
Color	Grey	Grey	Grey
UL classification	UL94 V-0	UL94 V-0	UL94 V-0

Contact

Contact material	Copper alloy
Plating contact zone	Au (min. 0,2 µm) over Ni (min. 2 µm)
Plating connection area	Au (min. 0,03 µm) over Ni (min. 2 µm)

Shielding shells

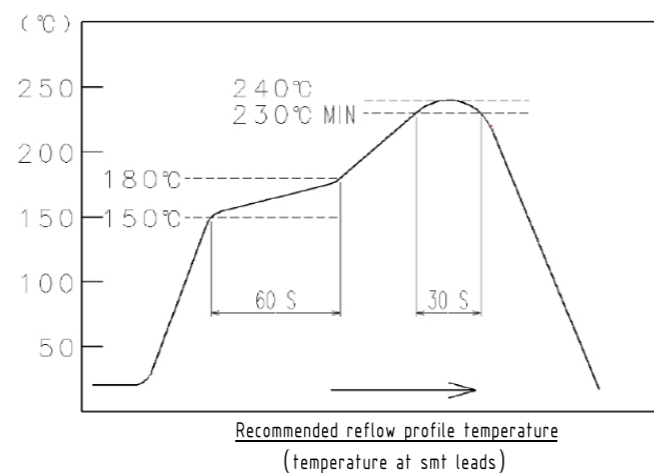
Material	Stainless steel
Plating	plug - shield case: Ni (min. 1 µm) plug - shield shell: Sn (min. 1 µm) over Ni (min. 0,2 µm) jack: Sn (min. 1 µm) over Ni (min. 0,2 µm)

Soldering specification

Solderability	Soldering point immersed in solder bath of +235°C ± 5°C, 5 sec. (using type r flux). Solder cover minimum of 95 % of the surface being immersed.		
Resistance to soldering heat			
Soldering details plug	+250°C ± 10°C, 5 sec. at soldering parts		
Soldering details jack	PSL level acc. ECA/IPC/JEDEC J-STD-075	PSL R0	
	MSL level acc. ECA/IPC/JEDEC J-STD-020D	MSL 1	

Recommended soldering profile for jack

In addition to the maximum values resulting from the above mentioned MSL and PSL values, we can recommend the following soldering profile as a guide. Please note that this is only an indication. The specific soldering profile must always be adapted to the application and the solder which will be used.



	All rights reserved	Created by PREOTU	Inspected by PREOTU	Standardisation RUETERA	Date 2023-07-03	State Final Release
	Department EL PD	Title HARTING ix Industrial® type A		Doc-Key / ECM-Nr. 100696164/UGD/000/M 50000248790		
HARTING D-32339 Espelkamp		Type DS	Number 09450000003		Rev. M	Page 2/2