

1	2	3	4	5	6	7	8
A	HARTING ix Industrial type B US RoHS compliant HARTING ix Industrial® type B US RoHS compliant						
General information							
DesignCable to Board for non ethernet communication e.g. signals & serial bus systems							
Product standardIEC 61076-3-124 (Type B)							
No. of contacts10							
ShieldingFully shielded, 360° shielding contact							
Degree of protectionIP20							
Mating cyclesMin. 5.000							
B	UL/CSA		UL 1977 ECBT2.E102079/ CSA-C22.2		No 182.3 ECBT8.E102079		
RoHS-compliantYes							
Lead freeYes							
Cable specification							
Cable diameter5,5 to 7,2 mmSpecial Applications Cable							
P/N0945181900009451819001094518190020945181900309451819004							
Connection typesolderIDCIDCIDCID							
Conductor cross sectionAWG 28 - 22AWG 28/7 - 26/7AWG 24/7AWG 22/7AWG 28/7 - 26/7							
Conductor diametermax. 1,55 mm0,95 - 1,05 mm1,1 - 1,25 mm1,4 - 1,6 mm1,1 - 1,25 mm							
Note:AWG 24 -depending on cable structure							
C	Electrical specification						
Rated current1,5A - (all pins) values at 40°C							
3A - 4 pins of contacts no. 1, 2, 6 and 7							
Rated voltage50 V AC / 60 V DC							
Contact resistanceContact: 30 mΩ max. (100 mA max. (DC or 1000 Hz))Shield: 100 mΩ max.							
Insulation resistance500 MΩ min. (500 V DC)							
Voltage proof500 V DC (for 1 min. current leakage max. 2 mA)							
Pin and pair grouping assignment							
D	pin assignmentfront view of connector Type B						
jack 10 9 8 7 6 1 2 3 4 5 plug 1 2 3 4 5 9 8 7 6							
E							
F	US RoHS compliant US RoHS compliant US RoHS compliant						

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HARTING ix Industrial® type B us RoHS compliant				Packaging specification MaterialPE + PS																																													
Material specification Isolator material plug <table><tr><td>Part</td><td>Cover Case</td><td>Plug Unit</td><td>Guide</td></tr><tr><td>Material</td><td>PC</td><td>PA</td><td>PA</td></tr><tr><td>Color</td><td>Dark Grey</td><td>Black/Grey</td><td>Clear/Clear Yellow/Clear Blue</td></tr><tr><td>UL classification</td><td>UL94 V-0</td><td>UL94 V-0</td><td>UL94 V-0</td></tr></table> Isolator material jack <table><tr><td>P/N</td><td>09452819000</td><td>09452819001</td><td>09452819002</td></tr><tr><td>Material</td><td>LCP</td><td>LCP</td><td>PA</td></tr><tr><td>Color</td><td>Grey</td><td>Grey</td><td>Grey</td></tr><tr><td>UL classification</td><td>UL94 V-0</td><td>UL94 V-0</td><td>UL94 V-0</td></tr></table> Contact <table><tr><td>Contact material</td><td>Copper alloy</td></tr><tr><td>Plating contact zone</td><td>Au (min. 0,2 µm) over Ni (min. 2 µm)</td></tr><tr><td>Plating connection area</td><td>Au (min. 0,03 µm) over Ni (min. 2 µm)</td></tr></table> Shielding shells <table><tr><td>Material</td><td>Stainless steel</td></tr><tr><td>Plating</td><td>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)</td></tr></table>				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	P/N	09452819000	09452819001	09452819002	Material	LCP	LCP	PA	Color	Grey	Grey	Grey	UL classification	UL94 V-0	UL94 V-0	UL94 V-0	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)	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)				
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D Recommended soldering profile for plug 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. 240°C 230°C MIN 180°C 150°C 60 S 30 S Recommended reflow profile temperature (temperature at smt leads)																																																	
				All rights reserved Department EL PD HARTING D-32339 Espelkamp Scale 1:1 Free size tol. Created by PREOTU Inspected by PREOTU Standardisation RUETERA Date 2023-07-03 State Final Release Title HARTING ix Industrial® type B Type DS Number 09450000004 Doc-Key / ECM-Nr. 100794076/UGD/000/J 500000248790 Rev. J Page 2/2																																													
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