



Product: BRSTS 8X-552 ☑

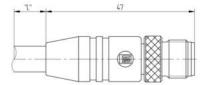
Gigabit Ethernet Cat7 Data Single-Ended Cordset: M12 Railway, male, straight, 8-pin, X-coded, shielded, black body, 50 V AC / 60 V DC, 0.5 A; X-FRNC/LSNH blue cable, 8-wires, 4x2x0.25 mm², ECE R118, EN 45545

## **Product Description**

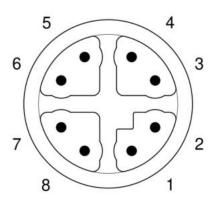
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## **Technical Drawing**





# Male



# **Technical Specifications**

## Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
white (orange)	orange	white (green)	green	white (brown)	brown	white (blue)	blue

## **Technical Data**

Product Sub Family: M12 Railway  Brand: Lumberg Automation  Connector Type: Cordset, single ended  Type of Contact / Gender: Male  Connector Design: Straight  Number of Pins: 8  Coding: X  Shielding: Shielded  Attachment Type: Coupling Screw  Rated Voltage: 60 V  Rated Impulse Voltage: 0.8 kV  Operating Voltage: 50 V AC / 60 V DC  Rated Current: 0.5 A		
Brand: Lumberg Automation  Connector Type: Cordset, single ended  Type of Contact / Gender: Male  Connector Design: Straight  Number of Pins: 8  Coding: X  Shielding: Shielded  Attachment Type: Coupling Screw  Rated Voltage: 60 V  Rated Impulse Voltage: 0.8 kV  Operating Voltage: 50 V AC / 60 V DC  Rated Current*: 0.5 A	Product Family:	Data Connectors
Connector Type: Cordset, single ended  Type of Contact / Gender: Male  Connector Design: Straight  Number of Pins: 8  Coding: X  Shielding: Shielded  Attachment Type: Coupling Screw  Rated Voltage: 60 V  Rated Impulse Voltage: 0.8 kV  Operating Voltage: 50 V AC / 60 V DC  Rated Current*: 0.5 A	Product Sub Family:	M12 Railway
Type of Contact / Gender: Male  Connector Design: Straight  Number of Pins: 8  Coding: X  Shielding: Shielded  Attachment Type: Coupling Screw  Rated Voltage: 60 V  Rated Impulse Voltage: 0.8 kV  Operating Voltage: 50 V AC / 60 V DC  Rated Current*: 0.5 A	Brand:	Lumberg Automation
Connector Design: Straight  Number of Pins: 8  Coding: X  Shielding: Shielded  Attachment Type: Coupling Screw  Rated Voltage: 60 V  Rated Impulse Voltage: 0.8 kV  Operating Voltage: 50 V AC / 60 V DC  Rated Current*: 0.5 A	Connector Type:	Cordset, single ended
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Operating Voltage: 50 V AC / 60 V DC Rated Current*: 0.5 A	Rated Voltage:	60 V
Rated Current*: 0.5 A	Rated Impulse Voltage:	0.8 kV
	Operating Voltage:	50 V AC / 60 V DC
D. T	Rated Current*:	0.5 A
Data Transmission: Gigabit Ethernet Cat/	Data Transmission:	Gigabit Ethernet Cat7
Data Transmission Rate: 10 Gbit/s	Data Transmission Rate:	10 Gbit/s

Vibration Resistance:	IEC 61373	
Contact Resistance:	≤ 10 mOhm	
Insulation Resistance:	> 10^9 Ohm	
Mating Cycles:	≤ 100	
Ambient Temperature (Operation)*:		
Protection Degree / IP Rating**:	IP65, IP67	
Design Standard:	IEC 61076-2-109	
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)	
Overvoltage Category:	II acc. to DIN EN 60664-1 (VDE 0110-1)	

## **Materials**

Contact Base Material:	CuZn
Contact Plating:	Cu/Au
Contact Bearer Material:	PA
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	PA
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 V-0
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Shielding Material:	GD-Zn, nickel-plated

# **Additional Technical Data**

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
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# **Cable Data**

Cable Number:	552
Conductor Size:	4x2x0.25 mm <sup>2</sup>
Number of Wires:	8
Minimal Bending Radius (Fixed Inst):	>4 x D
Conductor material:	Cu
Cable Jacket Material:	X-FRNC/LSNH
Cable Jacket Color:	blue
Cable Diameter D:	ø 8.1 ± 0.3 mm
Wire Insulation Material:	E-beam X-linked Foam-skin polyethylene
Insulated Wire Diameter:	max. ø 1.60 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Ambient Temperature (Fixed Installation):	-40 °C -+90 °C
Ambient Temperature (Flex Installation):	- 5 °C - + 50 °C
Flammability Class (Cable Jacket):	IEC 60332-1-2, EN50305 (9.1.1), IEC60332-3-25 cat D; fire protection Railway vehicles: DIN 5510-2 protection level 1 to 4; CEN/TS 45545-2 HL1-HL3; smoke density acc. to DIN EN 61034-2, EN50268-2: T >70% ;toxicity (NF X70-100-1): CITc < 0.7, ECE R118, EN 45545
Cable Characteristics:	Exclusion of dangerous materials; Resistance against mineral oil: EN 50306 par 4.8 1.5kV/1min.; Resistance against fuel: EN 50306 par 4.9 1.5kV/1min; Resistance against acid and alkali
Core Colors:	Twisted pairs: white & blue, white & orange, white & green, white & brown

# Safety & Environmental Compliance

RoHS Compliant:
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# Resistances

Halogenfree:	yes
Rail:	Yes
Oil Resistance:	IEC 60811-2-1

# Notes

Note Derating:	Notice derating	AbN
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.	automation
Note:	Do not connect or disconnect under load.	

### Variants

Item #	Item Description	Cable Length
23906	BRSTS 8X-552/18 M	
934809009	BRSTS 8X-552/2 M	2 m
934809010	BRSTS 8X-552/5 M	5 m
934809011	BRSTS 8X-552/10 M	10 m
934809012	BRSTS 8X-552/15 M	15 m
10384	BRSTS 8X-552/20 M	20 m

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