



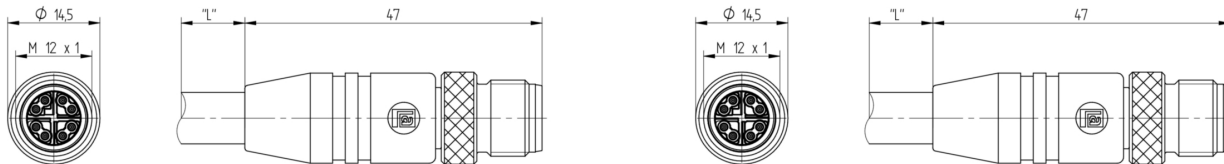
**Product:** [BRSTS 8X-BRSTS 8X-552](#)

Gigabit Ethernet Cat7 Data Double-Ended Cordset: Male straight X-coded black M12 Railway to male straight X-coded black M12 Railway, shielded, 50 V AC / 60 V DC, 0.5 A; X-FRNC/LSNH blue cable, 8-wires, 4x2x0.25 mm<sup>2</sup>, ECE R118, EN 45545

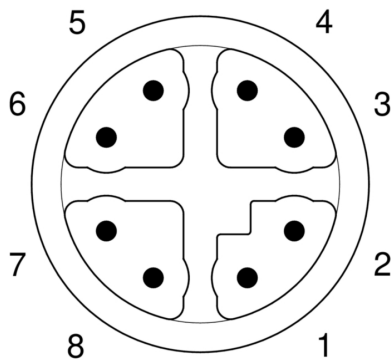
**Product Description**

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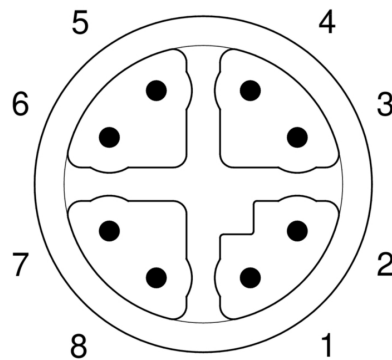
**Technical Drawing**



**Male**



**Male**



**Technical Specifications**

**Face View Side 1**

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

**Face View Side 2**

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

Product Description

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Shielded
Rated Voltage:	60 V
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	0.5 A
Data Transmission:	Gigabit Ethernet Cat7
Data Transmission Rate:	10 Gbit/s
Vibration Resistance:	IEC 61373

Technical Data Side 1

Product Sub Family:	M12 Railway
Type of Contact / Gender:	Male
Connector Design:	Straight
Attachment Type:	Coupling Screw
Number of Pins:	8
Coding:	X
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 85 °C
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)
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
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	Do not connect or disconnect under load.

Cable Data

Cable Number:	552
Conductor Size:	4x2x0.25 mm²
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

Technical Data Side 2

Product Sub Family, Side 2:	M12 Railway
Type of Contact / Gender, Side 2:	Male
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Coupling Screw
Number of Pins, Side 2:	8
Coding, Side 2:	X
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 85 °C
Protection Degree / IP Rating, Side 2**:	IP65, IP67
Design Standard, Side 2:	IEC 61076-2-109
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	II acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	CuZn
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	PA
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
Molded Body Material, Side 2:	PA
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 V-0
Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2:	Nickel-plated
Shielding Material, Side 2:	GD-Zn, nickel-plated
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight

Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

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

Notes

Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note Derating:	Notice derating

History

Update and Revision:	Revision Number: 0.63 Revision Date: 02-03-2025
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Variants

Item #	Item Description	Cable Length
30796	BRSTS 8X-BRSTS 8X-552/7 M	
8907	BRSTS 8X-BRSTS 8X-552/0,5 M	0.5 m

19348	BRSTS 8X-BRSTS 8X-552/0,7 M	0.7 m
8906	BRSTS 8X-BRSTS 8X-552/1 M	1 m
934809013	BRSTS 8X-BRSTS 8X-552/2 M	2 m
934809014	BRSTS 8X-BRSTS 8X-552/5 M	5 m
934809015	BRSTS 8X-BRSTS 8X-552/10 M	10 m
934809016	BRSTS 8X-BRSTS 8X-552/15 M	15 m
8955	BRSTS 8X-BRSTS 8X-552/25 M	25 m
8956	BRSTS 8X-BRSTS 8X-552/30 M	30 m

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