lumbergautomation
A BELDEN BRAND

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

Product Description

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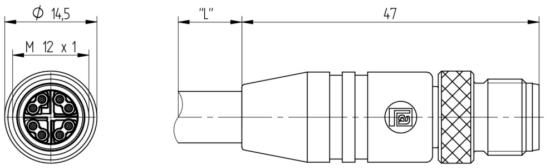
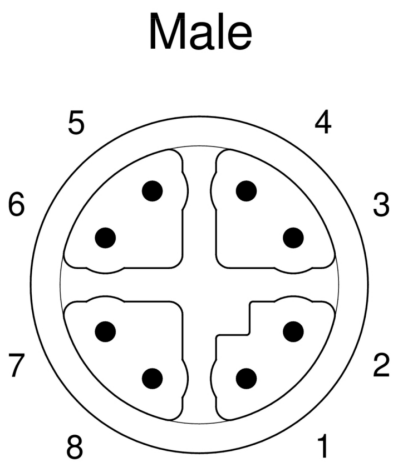
Technical Drawing





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 Family:	Data Connectors
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
Data Transmission:	Gigabit Ethernet Cat7
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)*:	- 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)

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

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
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:	yes

Resistances

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

Notes

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

Variants

Item #	Item Description	Cable Length
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