



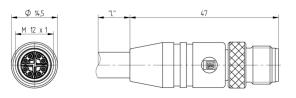
Product: BRSTS 8X-552 ☑

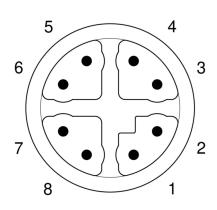
Gigabit Ethernet Cat7 Data Single-Ended Cordset: M12 Railway, male, straight, 8-pin, X-coded, shielded, black body, 50 V AC / 60 V DC, 0.5 A; X-FRNC/LSNH blue cable, 8-wires, 4x2x0.25 mm²

Product Description

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

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 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

Adductor Size:Adductor Size:Adductor Size:Adductor Size:Aumber of Wires:BAductor Material:A x DConductor material:CuAductor Material:XFRNC/LSNHCable Jacket Olor:BuCable Jacket Color:BuCable Diameter D:B: 1:0.3 mmKire Insulation Material:E-beam X-linked Foam-skin polyethyleneSubled Wire Diameter:mx 0:1.60 mmSubled Wire Diameter:Gu-Ct-101 mmSubled Wire Diameter:Adu 0: C - 90 °CSublation Kire Insulation:S °C - 50 °CSublet Temperature (File: Sublation:S °C - 50 °CSublet Characterisics:S Culson of dangerous materials; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against mineral oil: EN 50006 par 4.8 1.5 KV/timin; Resistance against min		
Aumber of Wires: Bit Manual Bending Radius (Files) Second Constant (Files) Second Cons	Cable Number:	552
Initial Banding Radius (Fike) A x D Conductor material: Cu Conductor material: Cu Cable Jacket Material: X-FRNC/LSNH Cable Jacket Color: blue Cable Jacket Color: blue Cable Jacket Color: 6.1 ± 0.3 mm Vire Insulation Material: E-beam X-linked Foam-skin polyethylene Stable Diameter: max. ø 1.60 mm Stable Object: Cu-ETP1 tinned Vire Insulation (Fikewa) -40 °C - + 90 °C Vire Insulation: -5 °C - 5 °C Vire Insulation: Cic Co0332-1-2, EN50305 (9.1.1, I), IEC60332-3-25 cat D; fire protection Railway vehicles: DIN 55 10-2 protection level 1 to 4; CEN/TS 4554-52 HL1-HL3; smoke density acc. 0.7 Cable Characteristics: Ecclusion 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 ag	Conductor Size:	4x2x0.25 mm ²
Image:	Number of Wires:	8
Cable Jacket Material:K-FRNC/LSNHCable Jacket Color:blueCable Jacket Color:blueCable Diameter D:oli 1 ± 0.3 mmVire Insulation Material:E-beam X-linked Foam-skin polyethyleneInsulated Wire Diameter:max ø 1.60 mmOverall Shield (Cable):Cu-ETP1 tinnedOverall Shield (Cable):-40 °C - + 90 °CImbient Temperature (Fixed)-5 °C - + 50 °CRammability Class (Cable):EC 60332-1-2, EN50305 (9.1.1), IEC 60332-3-25 cat D, fire protection Railway vehicles: DIN 5510-2 protection level 1 to 4; CENTS 45545-2 HL1-HL3; smoke density acc. to DIN EN 61034-2, EN50268-2: T >70%; toxicity (NF X70-100-1): CIT < < 0.7	Minimal Bending Radius (Fixed Inst):	> 4 x D
Cable Jacket Color:DefendenceCable Jacket Color:blueCable Diameter D:o 8.1 ± 0.3 mmVire Insulation Material:E-beam X-linked Foam-skin polyethyleneInsulated Wire Diameter:max. ø 1.60 mmOverall Shield (Cable):Cu-ETP1 tinnedOverall Shield (Cable):-40 °C - + 90 °CInsulation Y:- 5 °C - + 50 °CRamability Class (Cable):EC 60332-1-2, EN50305 (9.1.1), IEC 60332-3-25 cat D; fire protection Railway vehicles: DIN 5510-2 protection level 1 to 4; CENTS 45545-2 HL1-HL3; smoke density acc. to DIN EN 61034-2, EN50268-2: T >70% ;toxicity (NF X70-100-1): CIT < < 0.7	Conductor material:	Cu
Cable Diameter D: Ø 8.1 ± 0.3 mm Vire Insulation Material: E-beam X-linked Foam-skin polyethylene nsulated Wire Diameter: max. ø 1.60 mm Overall Shield (Cable): Cu-ETP1 tinned vorall Shield (Cable): cu-ETP1 tinned whbient Temperature (Fixed nstallation): a0 °C - + 90 °C nstallation): c - + 50 °C rammability Class (Cable) EC 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 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 fuel: E	Cable Jacket Material:	X-FRNC/LSNH
Wire Insulation Material: E-beam X-linked Foam-skin polyethylene Insulated Wire Diameter: max. Ø 1.60 mm Overall Shield (Cable): Cu-ETP1 tinned Overall Shield (Cable): cu-ETP1 tinned Insulation): -40 °C - + 90 °C Installation): -5 °C - + 50 °C Paramability Class (Cable) EC 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 Jacket Color:	blue
Instruction of the procession of the procession Instruction of the procession of the procession Instruction of the procession of the procesion of the procession of the procesion of the processi	Cable Diameter D:	ø 8.1 ± 0.3 mm
Decendencies Cu-ETP1 tinned Aumbient Temperature (Fixed installation): -40 °C - + 90 °C Aumbient Temperature (Flex installation): -5 °C - + 50 °C Immability Class (Cable installation): EC 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	Wire Insulation Material:	E-beam X-linked Foam-skin polyethylene
Ambient Temperature (Fixed nstallation): -40 °C - + 90 °C Ambient Temperature (Flex nstallation): -5 °C - + 50 °C Imbient Temperature (Flex nstallation): -5 °C - + 50 °C Flammability Class (Cable lacket): EC 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	Insulated Wire Diameter:	max. ø 1.60 mm
Installation): -40°C++30°C Aumbient Temperature (Flex Installation): -5°C - + 50°C 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	Overall Shield (Cable):	Cu-ETP1 tinned
Installation): Installatin: Installation): Install	Ambient Temperature (Fixed Installation):	- 40 °C - + 90 °C
lacket): DIN EN 61034-2, EN50268-2: T >70% ;toxicity (NF X70-100-1): CITc < 0.7	Ambient Temperature (Flex Installation):	- 5 °C - + 50 °C
acid and alkali	Flammability Class (Cable Jacket):	
Core Colors: Twisted pairs: white & blue, white & orange, white & green, white & brown	Cable Characteristics:	
	Core Colors:	Twisted pairs: white & blue, white & orange, white & green, white & brown

Safety & Environmental Compliance

yes

RoHS Compliant:

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

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulators based on their individual usage of the product.