lumbergautomation
A BELDEN BRAND

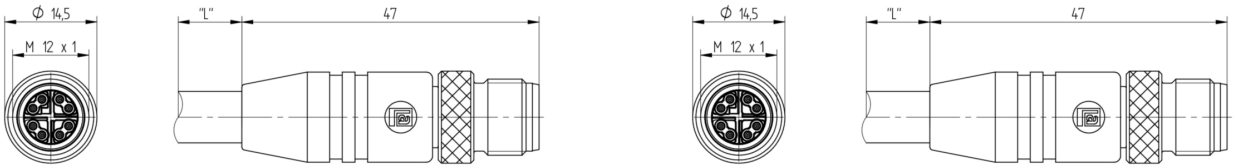
Product: RSTS 8X-RSTS 8X-478

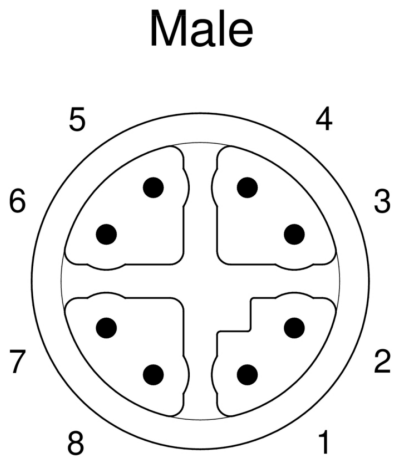
Gigabit Ethernet Cat7 Data Double-Ended Cordset: Male straight X-coded black M12 Standard to male straight X-coded black M12 Standard, shielded, 50 V AC / 60 V DC, 0.5 A; PUR black cable, 8-wires, 4x2x0.14 mm²

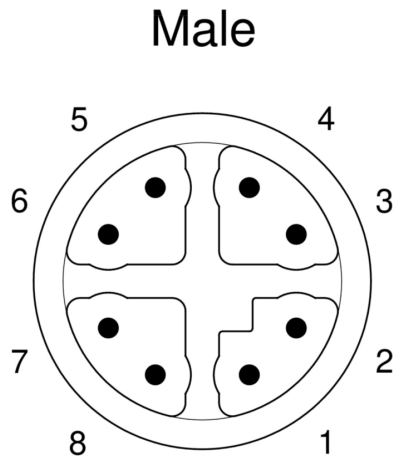
Product Description

Gigabit Ethernet Cat7 Data Double-Ended Cordset: Male straight X-coded black M12 Standard to male straight X-coded black M12 Standard, shielded, 50 V AC / 60 V DC, 0.5 A; PUR black cable, 8-wires, 4x2x0.14 mm²

Technical Drawing







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 Type:	Shielded
Voltage Rating:	60 V
Rated Voltage (UL):	30 V AC / 60V DC
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	50 V AC / 60 V DC
Current Rating:	0.5 A
Rated Current (UL)*:	0.5 A
Data Transmission Type:	Gigabit Ethernet Cat7
Data Transmission Rate:	10 Gbit/s

Technical Data Side 1

Side 1 Product Sub Family:	M12 Standard
Side 1 Type of Contact/Gender:	Male
Connector Design:	Straight
Attachment Type:	Coupling Screw
Number of Pins:	8
Coding, Side 1:	X
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 80 °C
Operating Temperature (UL):	max. + 55 °C
Protection Degree / IP Rating**:	IP65, IP67
Side 1 Design Standard:	IEC 61076-2-109
Side 1 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
Side 1 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:	478
Conductor Size:	4x2x0.14 mm²
Number of Wires:	8
Minimal Bending Radius (Fixed Inst):	> 30 mm
Minimal Bending Radius (Flexible Inst):	> 65 mm
Cycles (Bending):	> 0.2 M
Conductor Material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 6.8 ± 0.3 mm
Wire Insulation Material:	PE

Insulated Wire Diameter:	ø 1.05 ± 0.05 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Foil shield:	Al-PT Foil
Ambient Temperature (Fixed Installation):	- 40 °C - + 80 °C
Ambient Temperature (Flex Installation):	0 °C - +50 °C
UL Cable Type:	AWM: 21327
Core Colors:	Twisted pairs: white & blue, white & orange, white & green, white & brown

Technical Data Side 2

Side 2 Product Sub Family:	M12 Standard
Side 2 Type of Contact/Gender:	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 - + 80 °C
Operating Temperature (UL), Side 2:	max. + 55 °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

Approvals

UL-File:	E469096
UL:	UL 1863; cULus

Safety & Environmental Compliance

RoHS Compliant:	yes

Resistances

Halogenfree:	IEC 60754-2
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: 0.59 Revision Date: 02-20-2026

Variants

Item #	Item Description	Cable Length
25556	RSTS 8X-RSTS 8X-478/6,6 M	

21153	RSTS 8X-RSTS 8X-478/65 M	
25579	RSTS 8X-RSTS 8X-478/21 M	
14167	RSTS 8X-RSTS 8X-478/3 M	
25632	RSTS 8X-RSTS 8X-478/95 M	
25373	RSTS 8X-RSTS 8X-478/11,9 M	
12382	RSTS 8X-RSTS 8X-478/4 M	
26421	RSTS 8X-RSTS 8X-478/0,35 M	
21151	RSTS 8X-RSTS 8X-478/75 M	
21138	RSTS 8X-RSTS 8X-478/55 M	
21134	RSTS 8X-RSTS 8X-478/25 M	
21135	RSTS 8X-RSTS 8X-478/35M	
15470	RSTS 8X-RSTS 8X-478/0,3 M	0.3 m
15471	RSTS 8X-RSTS 8X-478/0,5 M	0.5 m
12381	RSTS 8X-RSTS 8X-478/1 M	1 m
934809005	RSTS 8X-RSTS 8X-478/2 M	2 m
910012382	RSTS 8X-RSTS 8X-478/4 M	4 m
934809006	RSTS 8X-RSTS 8X-478/5 M	5 m
934809007	RSTS 8X-RSTS 8X-478/10 M	10 m
15472	RSTS 8X-RSTS 8X-478/12 M	12 m
934809008	RSTS 8X-RSTS 8X-478/15 M	15 m
15477	RSTS 8X-RSTS 8X-478/20 M	20 m
15478	RSTS 8X-RSTS 8X-478/30 M	30 m
910021135	RSTS 8X-RSTS 8X-478/35 M	35 m
13831	RSTS 8X-RSTS 8X-478/40 M	40 m
910013831	RSTS 8X-RSTS 8X-478/40 M	40 m
21136	RSTS 8X-RSTS 8X-478/45 M	45 m
21137	RSTS 8X-RSTS 8X-478/50 M	50 m
21139	RSTS 8X-RSTS 8X-478/60 M	60 m
21140	RSTS 8X-RSTS 8X-478/70 M	70 m
21152	RSTS 8X-RSTS 8X-478/80 M	80 m

© 2026 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 regulations based on their individual usage of the product.