lumbergautomation
A BELDEN BRAND

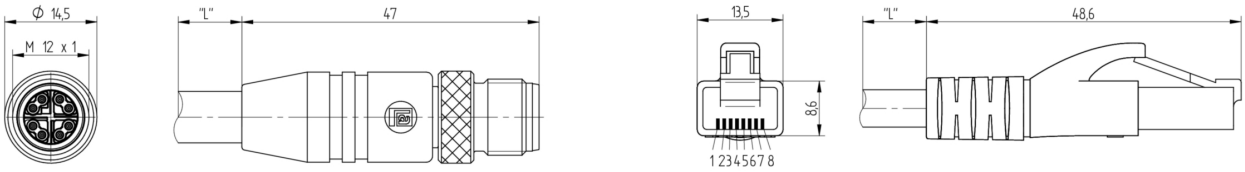
Product: RSTS 8X-RJ45 G-478

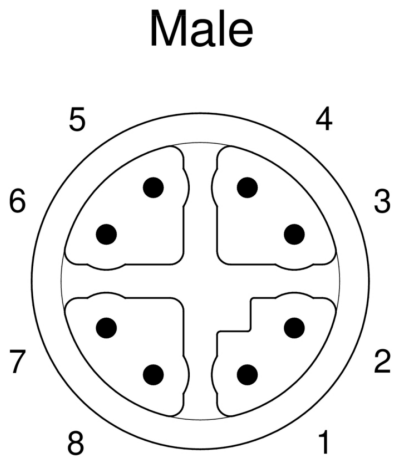
Gigabit Ethernet Cat7 Data Double-Ended Cordset: Male straight X-coded black M12 Standard to male straight RJ45-coded black RJ45, shielded, 30 V AC / 42 V DC, 0.5 A; PUR black cable, 8-wires, 4x2x0.14 mm²

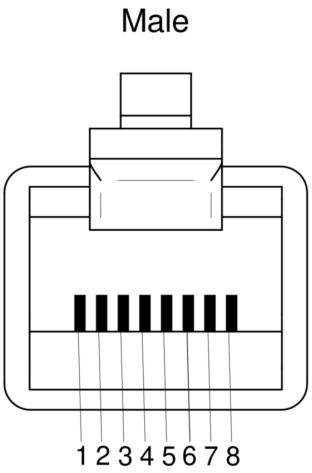
Product Description

Gigabit Ethernet Cat7 Data Double-Ended Cordset: Male straight X-coded black M12 Standard to male straight RJ45-coded black RJ45, shielded, 30 V AC / 42 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)	blue	white (blue)	green	white (brown)	brown

Product Description

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding Type:	Shielded
Voltage Rating:	60 V
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	30 V AC / 42 V DC
Current Rating:	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
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:	I 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:	RJ45
Side 2 Type of Contact/Gender:	Male
Connector Design, Side 2:	Straight
Number of Pins, Side 2:	8
Coding, Side 2:	RJ45
Contact Resistance, Side 2:	≤ 20 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 750
Ambient Temperature (Operation), Side 2*:	- 10 °C - + 60 °C
Protection Degree / IP Rating, Side 2**:	IP20
Design Standard, Side 2:	IEC 60603-7
Overvoltage Category, Side 2:	I acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	Copper Alloy
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	PC
Contact Bearer Color, Side 2:	Clear
Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
Molded Body Material, Side 2:	PVC
Molded Body Color, Side 2:	Black
Shielding Material, Side 2:	Copper, nickel-plated

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: 0.57 Revision Date: 02-20-2026

Variants

Item #	Item Description	Cable Length
25372	RSTS 8X-RJ45 G-478/3,4 M	
25366	RSTS 8X-RJ45 G-478/22 M	
33153	RSTS 8X-RJ45 G-478/11,05 M	
11290	RSTS 8X-RJ45 G-478/1,25 M	
21697	RSTS 8X-RJ45 G-478/10,5 M	
25472	RSTS 8X-RJ45 G-478/16 M	
25473	RSTS 8X-RJ45 G-478/19 M	
25370	RSTS 8X-RJ45 G-478/12,5 M	
21698	RSTS 8X-RJ45 G-478/12 M	
13395	RSTS 8X-RJ45 G-478/0,3 M	0.3 m
12208	RSTS 8X-RJ45 G-478/0,5 M	0.5 m
12384	RSTS 8X-RJ45 G-478/1 M	1 m
12385	RSTS 8X-RJ45 G-478/2 M	2 m
13017	RSTS 8X-RJ45 G-478/3 M	3 m
12386	RSTS 8X-RJ45 G-478/4 M	4 m
10438	RSTS 8X-RJ45 G-478/5 M	5 m

12387	RSTS 8X-RJ45 G-478/7 M	7 m
18995	RSTS 8X-RJ45 G-478/7,5 M	7.5 m
13173	RSTS 8X-RJ45 G-478/8 M	8 m
11385	RSTS 8X-RJ45 G-478/10 M	10 m
21698	RSTS 8X-RJ45 G-478/12 M	12 m
11396	RSTS 8X-RJ45 G-478/15 M	15 m
11397	RSTS 8X-RJ45 G-478/20 M	20 m
14329	RSTS 8X-RJ45 G-478/25 M	25 m
13170	RSTS 8X-RJ45 G-478/30 M	30 m
900016489	RSTS 8X-RJ45 G-478/35M	35 m
13242	RSTS 8X-RJ45 G-478/40 M	40 m
13171	RSTS 8X-RJ45 G-478/50 M	50 m
13147	RSTS 8X-RJ45 G-478/55 M	55 m
13148	RSTS 8X-RJ45 G-478/60 M	60 m
15571	RSTS 8X-RJ45 G-478/75 M	75 m

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