



## Product: RSTS 8X-RSTS 8X-478 ☑

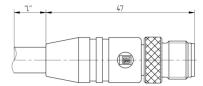
Gigabit Ethernet Cat7 Data Double-Ended Cordset: Male straight X-coded black M12 Standard to male straight X-coded black M12 Standard, shielded, 50 V AC / 60 V DC, 0.5 A; PUR black cable, 8-wires, 4x2x0.14 mm²

#### **Product Description**

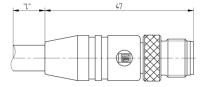
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#### **Technical Drawing**

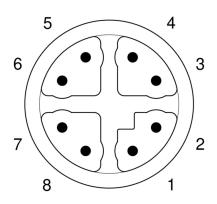




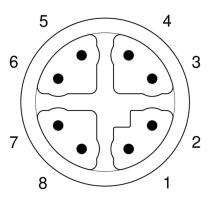




# Male



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

### **Technical Data Side 1**

Product Sub Family:	M12 Standard
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 - + 80 °C
Operating Temperature (UL):	max. + 55 °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:	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**

Product Sub Family, Side 2: M12 Standard  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 -+80 °C  Operating Temperature (UL), Side 2: max. +55 °C  Protection Degree / IP Rating, Side 2**: IP65, IP67  Design Standard, 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	
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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: 0.55 Revision Date: 01-19-2023

#### Variants

Item #	Item Description	Cable Length
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
934809006	RSTS 8X-RSTS 8X-478/5 M	5 m
934809007	RSTS 8X-RSTS 8X-478/10 M	10 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
13831	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

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