



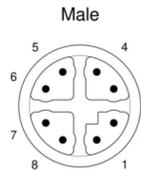
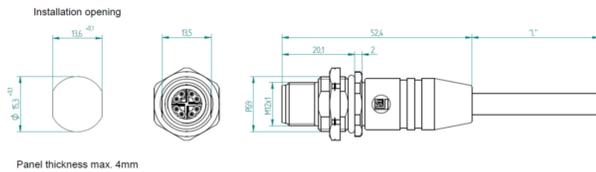
**Product:** [RSHS 8X-478 CN](#)

Gigabit Ethernet Cat6A Data Receptacle Connector: Male, rear mount, M12-mating side, cable - connecting side, 8-pin, X-coded, shielded, metallic housing, 50 V AC / 60 V DC, 0.5 A; PUR black cable, 8-wires, 4x2x0.14mm<sup>2</sup>

**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 Standard
Mating Side:	M12
Connecting Side:	Cable
Brand:	Lumberg Automation
Connector Type:	Receptacle
Type of Contact / Gender:	Male
Connector Design:	Rear Mount
Number of Pins:	8
Coding:	X
Shielding:	Shielded
Attachment Type:	Screw-Locking
Rated Voltage:	60 V
Rated Impulse Voltage:	1.5 kV

Operating Voltage:	50 V AC/60 V DC
Rated Current*:	0.5 A
Rated Current (UL)*:	0.5 A
Data Transmission Rate:	Gigabit Ethernet Cat6A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>8</sup> Ohm
Mating Cycles:	≤ 100
Thread Size:	PG9
Thread Material:	CuZn
Thread Plating:	Nickel-plated
Ambient Temperature (Operation)*:	- 25 °C - + 85 °C
Protection Degree / IP Rating**:	IP 67
Design Standard:	IEC 61076-2-109

## Materials

Contact Plating:	Cu/Au
Molded Body Material:	PA
Molded Body Color:	Black
Housing Material:	CuZn
Housing Plating:	Nickel-plated
O-Ring Material:	FKM

## Cable Data

Cable Number:	478
Conductor Size:	4x2x0.14 mm <sup>2</sup>
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

## Safety & Environmental Compliance

RoHS Compliant:	yes
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## Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note:	The receptacle connector is constructively intended for usage in IP67-products. To realise this protection class, the estimated location has to be designed accordingly. Further details see IEC 61076-2-109.

## Variants

Item #	Item Description	Cable Length
94781001	RSHS 8X-478/1M CN	1m

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