lumbergautomation
A BELDEN BRAND

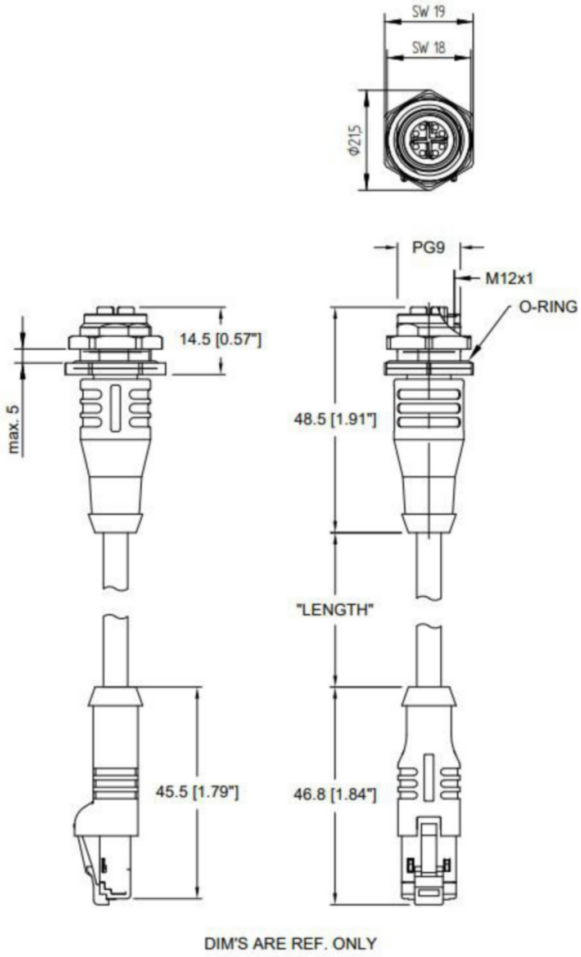
Product: RKHS 8X-RJ45 G-478

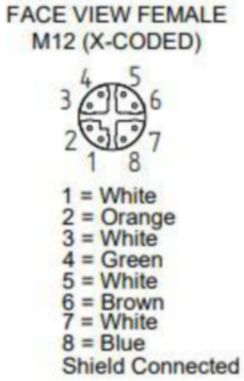
Gigabit Ethernet Cat7 data double-ended cord set, M12 X-code female receptacle to male straight RJ45, shielded, black PUR, 8-wires, 4x2x0.14 mm²

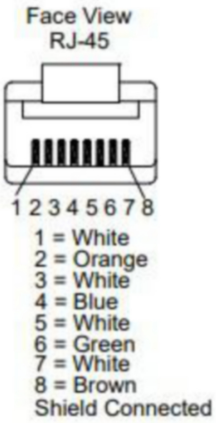
Product Description

Gigabit Ethernet Cat7 data double-ended cord set, M12 X-code female receptacle to male straight RJ45, shielded, black PUR, 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	white	green	white	brown	white	blue

Face View Side 2

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
white	orange	white	blue	white	green	white	brown

Product Description

Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding Type:	Shielded
Voltage Rating:	60 V
Rated Impulse Voltage:	0.8 kV
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 Overmolded Receptacle
Connector Design:	Straight
Attachment Type:	Coupling nut
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 - + 70 °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)
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:	TPU
Molded Body Color:	Black
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Shielding Material:	GD-Zn, nickel-plated
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight

Cable Data

Cable Number:	478
Conductor Size:	4x2x0.14 mm²
Number of Wires:	8
Conductor Material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	Black
Cable Diameter D:	ø 6.8 ± 0.3 mm
Insulated Wire Diameter:	ø 1.05 ± 0.05 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Ambient Temperature (Fixed Installation):	- 40 °C - + 70 °C
Ambient Temperature (Flex Installation):	0 °C - +50 °C
Flammability Class (Cable Jacket):	IEC 60332-1-2
Core Colors:	Twisted pairs: white & blue, white & orange, white & green, white & brown

Technical Data Side 2

Side 2 Product Sub Family:	RJ45
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	RJ45
Number of Pins, Side 2:	8
Contact Resistance, Side 2:	≤ 20 mOhm

Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 750
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 70 °C
Protection Degree / IP Rating, Side 2**:	IP20
Design Standard, Side 2:	IEC 60603-7
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	I acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	PC
Contact Bearer Color, Side 2:	Clear
Molded Body Material, Side 2:	TPE
Molded Body Color, Side 2:	Black
Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2:	Nickel-plated
Shielding Material, Side 2:	CuZn, tin-plated

Safety & Environmental Compliance

RoHS Compliant:	yes

Resistances

Rail:	No
Oil Resistance:	IEC 60811-2-1

Notes

Note Derating:	Notice derating

History

Update and Revision:	Revision Number: 0.16 Revision Date: 07-17-2025

Variants

Item #	Item Description	Cable Length
14750	RKHS 8X-RJ45 G-478/0,5 M	0.5 m
27396	RKHS 8X-RJ45 G-478/0,6 M	0.6 m
14749	RKHS 8X-RJ45 G-478/1 M	1 m
14747	RKHS 8X-RJ45 G-478/2 M	2 m
9X0023931	RKHS 8X-RJ45 G-478/3 M	3 m
23930	RKHS 8X-RJ45 G-478/5 M	5 m

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