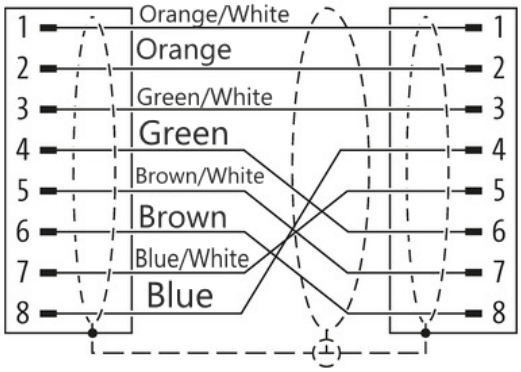
Product Data sheet

Sensors and Actuator

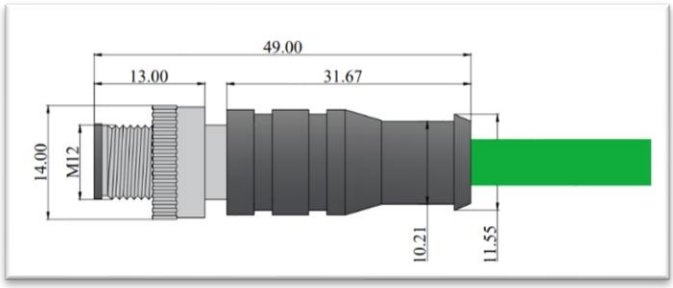
- Product description- M12 Male Straight X Code to Rj45 Male Straight Pvc Shielded Green Cable
- MPN-241245-9696-9088-814-XXXX-Gn
- Series –M12 X Code to RJ45 M Cord Set

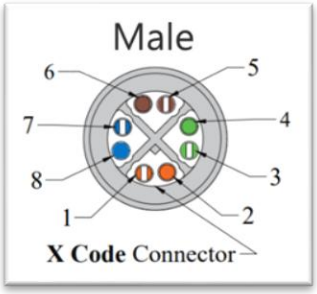
Illustration

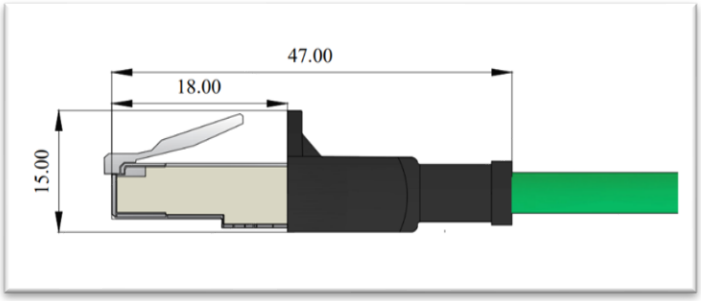


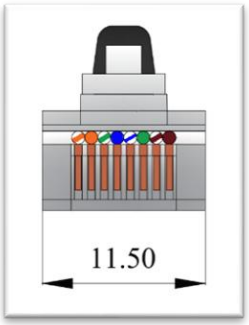


-Colour customization available based on MOQ









Product may differ from image

Product Datasheet Rev.No-02 Effective date-06-11-2025

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Product Data sheet

Sensors and Actuator

Technical Data	
Operating voltage	60V AC/DC
Rated Surge Voltage	1.5 KV
Operating current per contact AMP	Max. 4 A
Connection type head A	Male connector, M12 Straight, 8-pin, X coded
Connection type head B	Male connector, RJ45 Straight, 8-pin,
Protection	IP67, IP68, IP69
Housing Material	TPU
Locking nut material	Brass, Nickel plated
LED display	No
Connector colour	Black
Tightening torque	0.6 mm

Electrical Data	
Overvoltage category	II
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Test voltage	≥ 1500 V
Conductor material	Bare Cu litz wires
Max. conductor resistance	Max. 220 Ω/km (at 20 °c)
Nominal voltage	≤ 300 V
Frequency	Up to 100 MHz

Mechanical Data	
Insertion/withdrawal cycles	≥ 100

Product properties	
Application	up to 10 Gbit Ethernet (Standard TIA 568-C.2) & ProfNet
Partly UV-resistant	in accordance with DIN EN ISO 4892-2-A
Flammability rating According to UL 94	HB

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Product Data sheet

Sensors and Actuator

General Data	
Standards	IEC-61076-2-101 (M12), IEC 60603-7(RJ45)
Mounting method	Inserted, tightened
Pin Contact	CuZn
Housing contact	CuZn
Material (contact surface)	Au
Pollution Degree	3
Transmission speed	10 Gbps
Stripping length (jacket)	20 mm (If required)
Temperature range	-25…. +105°C

Cable Data	
Category	CAT6A
Cable Type	PVC
Cable weight	68 g/m
Diameter (core)	8*0.14 mm²
AWG	similar to AWG 26
Material (wire isolation)	PP
Material property (wire isolation)	Halogen-, CFC-, cadmium-, silicone- and lead-free
Colour/numbering of wires	Orange/White, Orange, Green/White, Green, Brown/White, Brown, Blue/White, Blue
Stranding combination	4 wires twisted in pair
Shield	Yes
Shielding	Tin braided
Optical shield covering	Min 85%
Material (jacket)	PVC
Outer-Ø (jacket)	6.2±0.2mm
Colour (jacket)	green
Chemical resistance	good resistance to oil, gasoline and chemicals (EN 60811-404)
Thermal resistance	flame retardant UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2
Temperature range (fixed)	-40...+80 °C, (+105 °C. at max. 10 000 operating hours)
Temperature range (mobile)	-25...+80 °C, (+105 °C. at max. 10 000 operating hours)
Bend radius (fixed)	5× outer Ø

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Product Data sheet

Sensors and Actuator

Bend radius (moving)	10× outer Ø
No. of bending cycles (C-track)	10 Mio. (25 °C)
Acceleration (C-track)	Max. 10 m/s
Torsion stress	±180°/m
No. of torsion cycles	max.2 Mio(25°c)
Torsion speed	35 cycle/min

Approvals
UL
CE
cULus
RoHS

Note: This product has been manufactured by the following Class-I, Class-II and class-III **IPC** standards

To understand the MPN please refer the below Table

241245-9696-9088-814-XXXX-Gn	
24	Series
12	M12 connector
45	RJ45 connector
96	Male Straight
96	Male Straight
9	X code
08	CAT6A PVC Shielded
8	8 Pole connectors
8	8 Core cable
14	0.14 mm² (Core size)
XXXX	Cable length as per customer requirement
Gn	Green Cable

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