



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



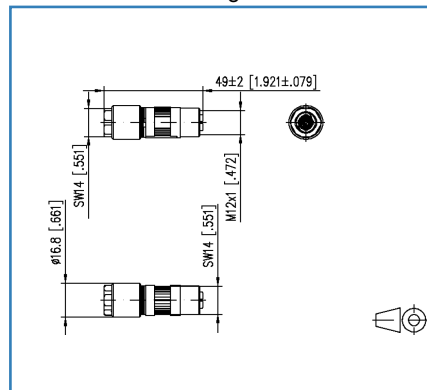
# Data sheet

## M12 Jack X-coded IP67, field assembly

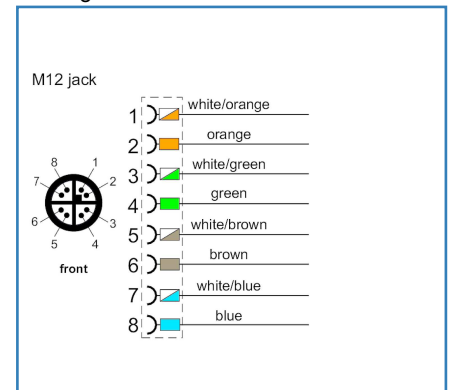
### Illustrations



Dimensional drawing



Wiring



See enlarged drawings at the end of document

### Product specification

- 8-pole M12 jack for field assembly Cat.6<sub>A</sub> per IEC/PAS 61076-2-109
- suitable for 10 GBit as per IEEE 802.3an
- AWG 26/1-22/1, AWG 26/7-22/7 can be connected
- solid copper wire diameter 0.4 to 0.64 mm
- stranded copper wire diameter 0.48 to 0.76 mm
- wire diameter with isolation up to 1.6 mm
- overall cable diameter from 5.0 to 9.7 mm
- jack consists of only two parts
- easy assembly without special tools
- industry-compatible zinc die-cast housing
- suitable for applications in the railway industry

### Technical Data

#### General Data

Design	Jack
Shielding	shielded
Transmission technology	Copper
Dimensions	
Dimension (L x W x H)	49.00 x 16.80 x 16.80 mm
Dimension (L x W x H)	1.929 x 0.661 x 0.661 in.
Field assembly ability	yes
Labeling option	on housing

#### Transmission characteristics

Category (ISO)	6 <sub>A</sub>
Category (TIA)	6A
Transmission rate up to 10 GBit (Gigabit-Ethernet)	IEEE 802.3an

#### Connections/interfaces

Connector technology interface 1	IDC-connection
Connector technology interface 2	M12-jack
Number of ports interface 2	1
Number of ports interface 2 equipped	1
Number of positions/contacts interface 1	8
Number of positions/contacts interface 2	8
Termination data, solid wire (min. - max.)	
Conductor cross section, solid wire	AWG 26/1 - 22/1
Conductor cross section, solid wire	0.128 - 0.324 mm <sup>2</sup>
Conductor diameter, solid wire (bare copper)	0.409 - 0.643 mm
Conductor diameter, solid wire (bare copper)	0.016 - 0.025 in.
Termination data, stranded wire (min. - max.)	
Conductor cross section, stranded wire	AWG 26/7 - 22/7
Conductor cross section, stranded wire	0.141 - 0.355 mm <sup>2</sup>
Conductor diameter, stranded wire (bare copper)	0.483 - 0.762 mm
Conductor diameter, stranded wire (bare copper)	0.019 - 0.030 in.



### Technical Data

#### Connections/interfaces

Core diameter (min. - max.)

Core diameter (conductor with insulation) 0.85 - 1.60 mm

Core diameter (conductor with insulation) 0.033 - 0.063 in.

Cable sheath diameter (min. - max.)

Cable sheath diameter 5.00 - 9.70 mm

Cable sheath diameter 0.197 - 0.382 in.

Cable access/outlet

straight M12

#### Electrical characteristics

Current carrying capacity 0.5 A

Rated voltage 50 V AC / 60 V DC

Through resistance max. 5 mOhm

Insulation resistance min. 100 MOhm

#### Mechanical characteristics

Mounting method screwable

Insertion and withdrawal force max.30 N

Life - Number of mating cycles min. 100

#### Materials and material properties

Material - Housing GD-Zn (zinc die-cast)

Material - Contact CuZn (brass)

Material - Contact finish Ni + Au (nickel-gold)

Material - Shield CuSn (tin bronze)

Material - Shield finish Sn (tin)

Material - Stuffer cap PA UL94-V0

Material - Finish Ni (nickel)

#### Environmental conditions

Temperature (min. - max.)

Temperature - Storage °C -40 - 85 °C

Temperature - Storage °F -40 - 185 °F

Temperature - Operating °C -40 - 85 °C

Temperature - Operating °F -40 - 185 °F

Particulate ingress interface 2 IP6X when plugged in



### Technical Data

#### Environmental conditions

Liquid ingress/immersion interface 2	IPX5 when plugged in, IPX7 when plugged in
Overvoltage category	III
Pollution degree	2
Electromagnetic measurement	E <sub>2</sub>
Shock	490 m/s <sup>2</sup>

#### Approvals

RoHS	compliant
UL listed (file no.)	DUXR.E178484

#### The product meets the following standards

Connectors for electronic equipment	
circular connector	DIN EN 61076-2-109:2010-08
Railway applications	
Electronic equipment used on rolling stock	DIN EN 50155
Fire protection on railway vehicles	DIN EN 45545-2

#### Classifications

ETIM 5.0	EC001121
ETIM 6.0	EC001121

#### Packing details

Type of packaging	1 pc(s) / plastic bag
Packaging unit - Weight (gram)	30.00 g
Packaging unit - Weight (pound)	0.07 lb

Data sheet

## M12 Jack X-coded IP67, field assembly

Page 5/6

P/N

MMF881A315

EAN 4250184171089

2018-02-03

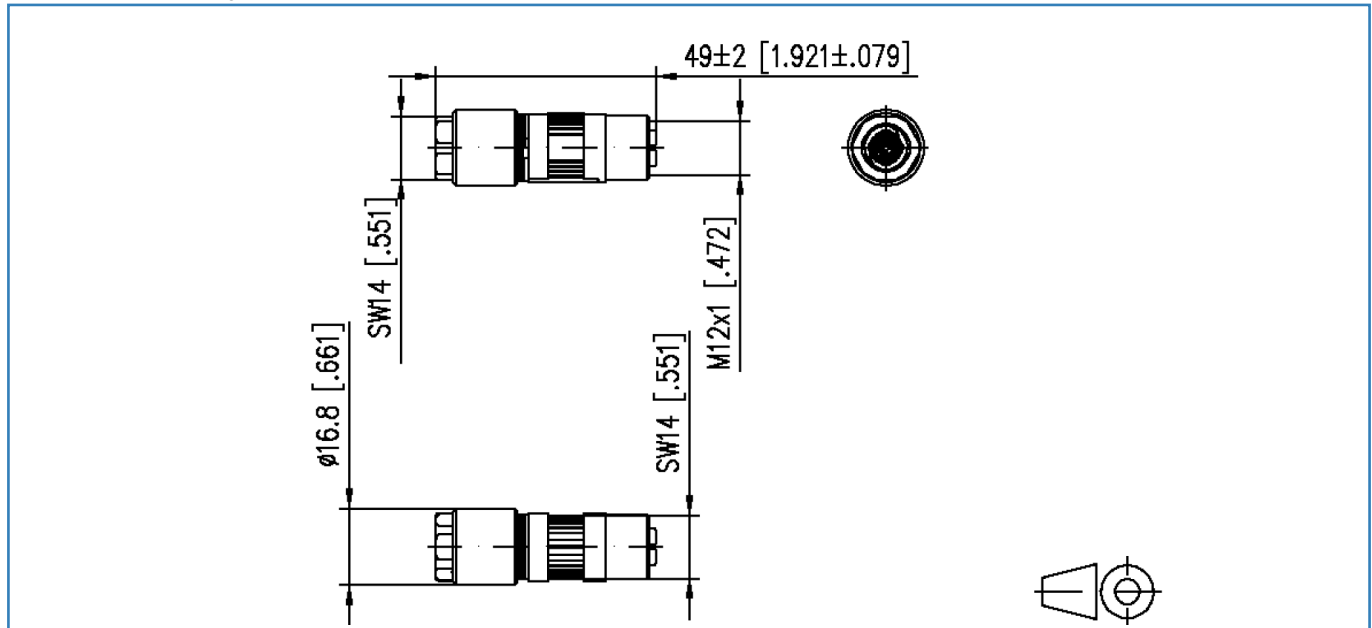
### Accessories

P/N	Designation
130670-E	KAPRi plus cable and installation tester
130674-E	KAPRi plus extension set M12 X-coded

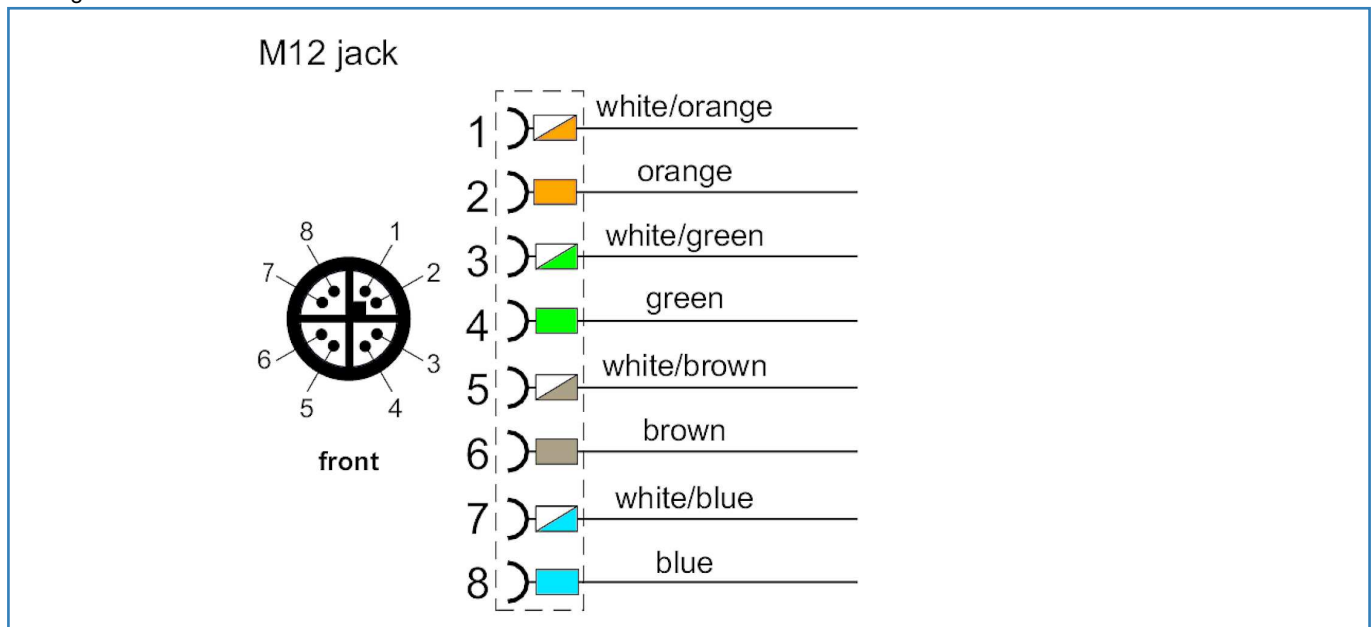


### Illustrations

Dimensional drawing



Wiring



© 2018 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!