



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!



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## Data sheet

### M12 Jack X-coded IP67, field assembly with flange

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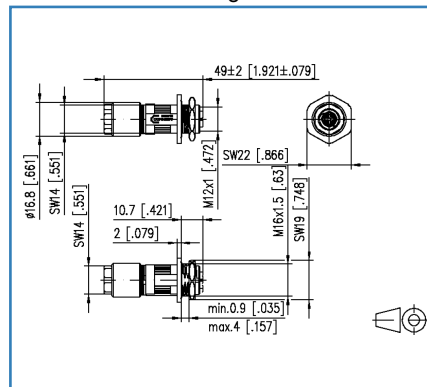
P/N  
MMF881A315-0001  
EAN 4250184171096

2018-02-03

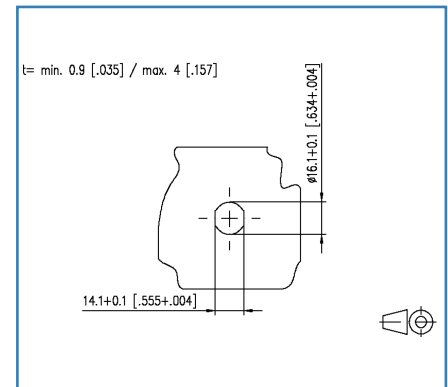
## Illustrations



Dimensional drawing



Cut-out



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 with flange
- suitable for 10 GBit as per IEEE 802.3an
- AWG 26/1 to 22/1, AWG 26/7 to 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



## M12 Jack X-coded IP67, field assembly with flange

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### Technical Data

#### General Data

Design	Jack
Mounting style	back side
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

#### 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



## M12 Jack X-coded IP67, field assembly with flange

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### Technical Data

#### Environmental conditions

Liquid ingress/immersion interface 2	IPX5 when plugged in, IPX7 when plugged in
Overvoltage category	II
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

Application-specific communications cabling systems	
Profinet	yes
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)	36.00 g
Packaging unit - Weight (pound)	0.08 lb



Data sheet

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**M12 Jack X-coded IP67, field assembly with flange**

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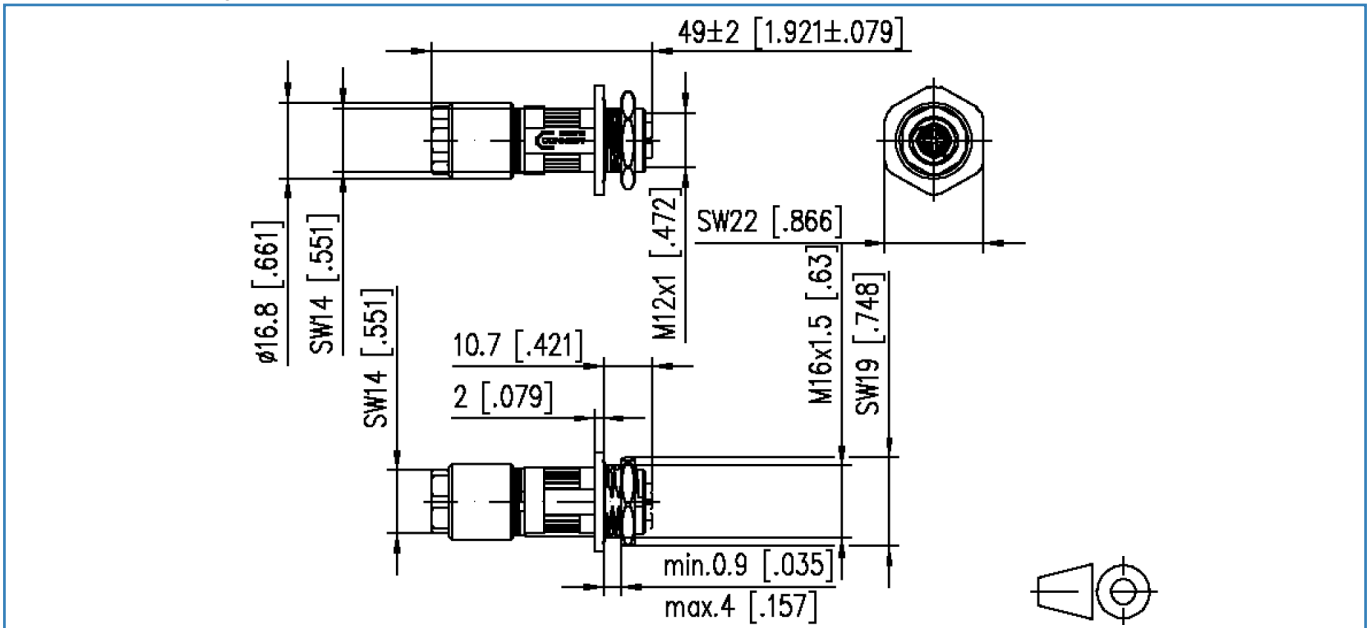
**Accessories**

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

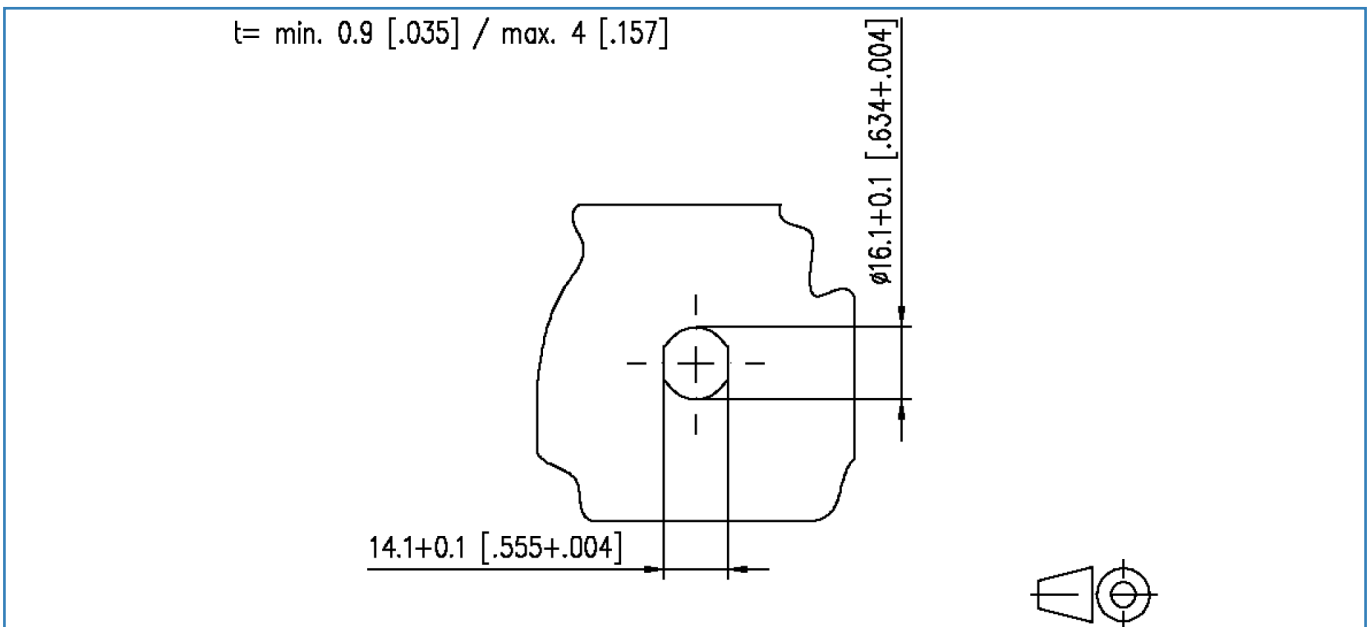


**Illustrations**

Dimensional drawing



Cut-out



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### Illustrations

#### Wiring

