

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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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, A-coded, on Socket angled M12, A-coded, cable length: 0.6 m

### Why buy this product



# **Key Commercial Data**

Packing unit	1 STK
GTIN	4 017918 137267
GTIN	4017918137267
Sales Key	02

### Technical data

#### **Dimensions**

Leadle feels	0.0
Length of cable	[ U.6 m

#### Ambient conditions

Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)	
Degree of protection	IP65	
	IP67	
	IP68	

#### General

Rated current at 40°C	4 A
Rated voltage	250 V AC
	250 V DC
Number of positions	4
Insulation resistance	$\geq$ 10 M $\Omega$



# Technical data

### General

Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	Unwired
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

### Material

Flammability rating according to UL 94	НВ
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

# Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	НВ

#### Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549 / 10493 (80°C/300 V)
Conductor cross section	4x 0.34 mm²
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm
Thickness, insulation	≥ 0.21 mm
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
External sheath, color	black-gray RAL 7021
Outer sheath thickness	approx. 0.5 mm
External cable diameter D	4.2 mm ±0.15 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	10000000
Minimum bending radius, drag chain applications	10 x D



# Technical data

### Cable

10 m
3 m/s
10 m/s²
30 kg/km
PUR
PP
Bare Cu litz wires
$\geq 1 \text{ G}\Omega^*\text{km}$
≤ 58 Ω/km
≤ 300 V
≥ 3000 V
Flexible cable conduit capable
Silicone-free
Free of substances which would hinder coating with paint or varnish
flexible
in accordance with UL 758/1581 FT2
DIN EN 60332-2-2 (20 s)
in accordance with DIN VDE 0472 part 815
in accordance with DIN EN 50267-2-1
in accordance with DIN EN 60811-2-1
Highly resistant to acids, alkaline solutions and solvents
hydrolysis and microbe resistant
partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Low adhesion
abrasion-resistant
-40 °C 80 °C (cable, fixed installation)
-25 °C 80 °C (cable, flexible installation)

# **Environmental Product Compliance**

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

# **Drawings**

#### Schematic diagram



#### Schematic diagram

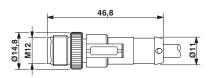


Pin assignment M12 plug, 4-pos., A-coded, view plug side

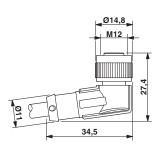
Pin assignment M12 socket, 4-pos., A-coded, view female side



### Dimensional drawing



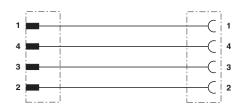
### Dimensional drawing



Plug, M12 x 1, straight, shielded

M12 x 1 socket, angled

### Circuit diagram



Contact assignment of the M12 plug and the M12 socket

# Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

### Approval details

UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal voltage UN			300 V	
Nominal current IN			4 A	



# Approvals

cUL Listed	CUL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal voltage UN			300 V	
Nominal current IN			4 A	

EAC	EAC	EAC-Zulas	ssung
cULus Listed	C UL US		

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