imall

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

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Sensor/Actuator cable, 8-position, PVC, yellow, Plug angled M12 SPEEDCON, A-coded, on Socket angled M12 SPEEDCON, A-coded, Cable length: 1.5 m



Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	4 046356 799515
GTIN	4046356799515

Technical data

Dimensions

Length of cable	1.5 m		
Ambient conditions			
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)		
Degree of protection	IP65		
	IP67		

IP68

General

Rated current at 40°C	2 A
Rated voltage	30 V
Number of positions	8
Insulation resistance	\geq 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	Unwired
Overvoltage category	

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Technical data

General

Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)
Material	
Flammability rating according to UL 94	НВ
Contact material	CuZn
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	HB
Cable	i
Cable type	PVC yellow 105 °C
Cable type (abbreviation)	542
UL AWM style	2517 (105 °C / 300 V)
AWG signal line	24
Core diameter including insulation	1.12 mm ±0.03 mm
Wire colors	white, brown, green, yellow, gray, pink, blue, red
Overall twist	8 wires around filler to the core
External sheath, color	yellow
External cable diameter D	5.7 mm ±0.2 mm
Minimum bending radius, flexible installation	8 x D
Cable weight	44 kg/km
Outer sheath, material	PVC
Material, filler	PP
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Conductor resistance	max. 79.7 Ω/km (20° C)
Nominal voltage, cable	300 V
Flame resistance	FT4
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)

Drawings



Schematic diagram

Pin assignment M12 plug, 8-pos., view plug side

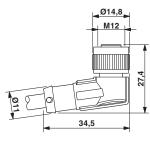
Cable cross section



PVC yellow 105 °C [542]

M12 x 1 male plug, angled





M12 x 1 socket, angled

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

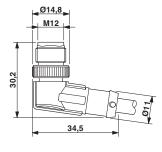
Approval details

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

Dimensional drawing



Circuit diagram

	·		
1		(1
~		C	~
2			2
3		C	3
4		(4
5			5
5			5
6		(6
7			7
8		C	8
0			0
	·		

Contact assignment of the M12 plug and the M12 socket



Approvals

Г

UL Listed	http://datab	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	
Nominal current IN		2 A	
Nominal voltage UN		30 V	

cUL Listed	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal current IN		2 A	
Nominal voltage UN		30 V	

cULus Listed

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