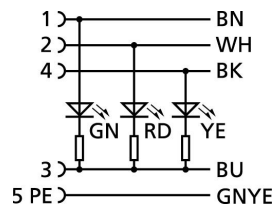


M12, female, angled, 4+PE, M12, male, straight, 4+PE, with LED, sensor-/actuator cable



**Product data**

Item description	AL-WWAK5P3.1-2-AL-WAS5/S370
Item-No.	8045661
Length	2m
Customs tariff-No.	85444290
Step-File	AL-WWAK5P3_1_AL-WAS5.stp
EAN	4047106004422
Label-carrier	2 pieces

Technical data	A-side	B-side
Connector	female, angled, M12, with LED	male, straight, M12
Number of pins	4+PE	4+PE
Pin assignment	1 BN, 2 WH, 3 BU, 4 BK, 5 GNYE	1 BN, 2 WH, 3 BU, 4 BK, 5 GNYE
Coding of	A	A
Rated voltage	30V	60V
Current load (at 40°C)	4A	4A
Insulation resistance	$\geq 10^9 \Omega$	$\geq 10^9 \Omega$
Resistance	$\leq 5 m\Omega$	$\leq 5 m\Omega$
Ambient temperature product	-30°C...+90°C	-30°C...+90°C
Contact material	Metal, CuSn, gold-plated	Metal, CuSn, gold-plated
Contact-carrier material	Plastic, TPU, BK	Plastic, TPU, BK
Grip body material	Plastic, TPU, transparent	Plastic, TPU, BK
Coupling nut material	Metal, CuZn, nickel-plated	Metal, CuZn, nickel-plated
Sealing (female) material	FPM/FKM	
Circuit logic	npn	
Signal status-indicator	LED YE/RD	
Operating voltage-indicator	LED GN	

Standards	IEC 61076-2-101	IEC 61076-2-101
Degree of protection (mounted)	IP65, IP67, IP68	IP65, IP67, IP68
Mechanical life-cycle	>100 mating cycles	>100 mating cycles
Degree of pollution	3	3

<b>Cable</b>	<b>PUR, UL, S370</b>
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Flexible, silicone- and halogen-free control line with high mechanical strength. The cable is chemicals, hydrolysis-, and microbes- resistant. The drag-chain application is possible at a bending radius of minimum 10 x d. Due to its weld-field immunity, the cable is very well suited for the flexible application in robotics, machine-tool, and metal-cutting production. The cables meet the UL and CSA (UL10493/20549; cULus) requirements.

Outer diameter of jacket	5.20 mm
Cable-jacket material	PUR
Jacket color	BK, similar RAL9005
Wire cross-section	5 x 0.34 mm <sup>2</sup>
Wire insulation material	PP
Wire colors	BN, WH, BU, BK, GNYE
Wire structure	42 x 0.10 mm
Bending radius (fixed)	5 x Ø-cable
Bending radius (repeated)	10 x Ø-cable
Temperature range (repeated)	-30°C...+90°C
Temperature range (fixed)	-40°C...+90°C
Temperature range (drag chain)	-25°C...+60°C
Drag chain-application	3 Mio. cycles
Halogen-free	Yes
Torsion	+/-180°/m, < 1 Mio. cycles
Rated voltage cable	≤300 V
Special features	flame retardant, seawater resistant, recyclable, LABS free, RoHs compliant, acid- and alkali resistant, ozone resistant, UV resistant, hydrolysis proof, drag chain-adapted, torsion resistant, welding sparks resistant, halogen free, silicone free, oil resistant

#### Classification

eCl@ss 6.0	27279218
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311
ETIM 5.0	EC001855
ETIM 6.0	EC001855

#### Accessories

##### Mounting-set, M12

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8047664>

##### Torque-wrench set

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8055431>

##### Marking rings Ø 9mm

<https://www.escha.net/en/products/standard/accessories-for-connectivity/?p=1&o=3&n=15&f=809>

#### Link to product

<https://www.escha.net/en/products/standard/sensoractuator-connectors/8045661>