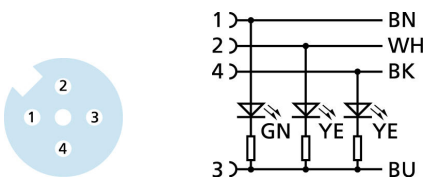
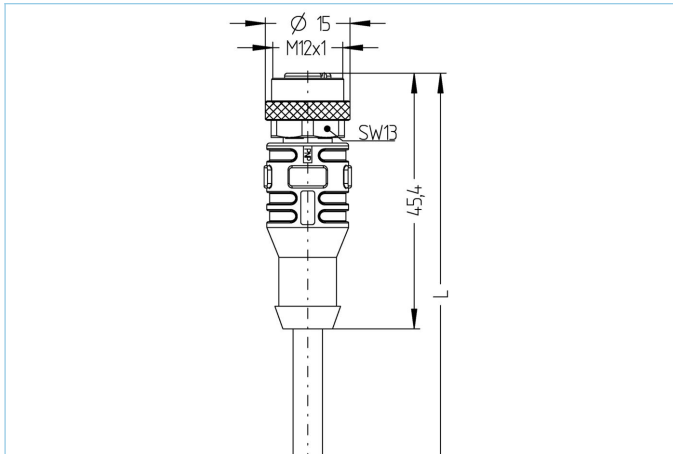


M12, female, straight, 4 poles, with LED, sensor-/actuator cable



**Product data**

Item description	AL-WAK4P3-10/S370
Item-No.	8109091
Length	10m
Customs tariff-No.	85444290
Step-File	AL-WAK4P3-L.stp
EAN	4047106331085

**Technical data**

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

Standards	IEC 61076-2-101
Degree of protection (mounted)	IP65, IP67, IP68
Mechanical life-cycle	>100 mating cycles
Cable end assembly	open cable end
Degree of pollution	3
Style	straight

<b>Cable web</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	4.70 mm
Cable-jacket material	PUR
Jacket color	BK, similar RAL9005
Wire cross-section	4 x 0.34 mm <sup>2</sup>
Wire insulation material	PP
Wire colors	BN, WH, BU, BK
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	5 Mio. cycles
Halogen-free	Yes
Torsion	+/-360°/m, ≥ 2 Mio. cycles
Rated voltage cable	≤300 V
Special features	flame retardant, halogen free, hydrolysis proof, LABS free, oil resistant, ozone resistant, recyclable, RoHs compliant, acid- and alkali resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, torsion resistant, UN ECE R 118, UV resistant

<b>Classification</b>	
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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

<b>Accessories</b>	
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Mounting-clip, M12 <a href="https://www.escha.net/en/products/standard/accessories-for-connectivity/8047660">https://www.escha.net/en/products/standard/accessories-for-connectivity/8047660</a>	
Torque-wrench set <a href="https://www.escha.net/en/products/standard/accessories-for-connectivity/8055431">https://www.escha.net/en/products/standard/accessories-for-connectivity/8055431</a>	
Marking rings Ø 9mm <a href="https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=809">https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=809</a>	
Screw plug, M12 <a href="https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=812">https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=812</a>	
Cable Stripping Tool <a href="https://www.escha.net/en/products/standard/accessories-for-connectivity/8066215">https://www.escha.net/en/products/standard/accessories-for-connectivity/8066215</a>	
Cable Stripping Tool <a href="https://www.escha.net/en/products/standard/accessories-for-connectivity/8066216">https://www.escha.net/en/products/standard/accessories-for-connectivity/8066216</a>	

**Link to product**

<https://www.escha.net/en/products/standard/sensoractuator-connectors/8109091>