

## M12, female, straight, 12 poles, shielded, sensor-/actuator cable



Product data	
Item description	AL-WAKS12-2,5/S370
Item-No.	8117165
Length	2.5m
Customs tariff-No.	85444290
Step-File	AL-WAKS12-m.stp
EAN	4047106324612
Technical data	
Connector	female, straight, M12
Number of pins	12
Pin assignment	1 BN, 2 BU, 3 WH, 4 GN, 5 PK, 6 YE, 7 BK, 8 GY, 9 RD, 10 VT, 11 GYPK, 12 RDBU
Coding	A
Rated voltage	30V
Current load per pin (at 40°C)	1.5A
Insulation resistance	$\geq 10^9 \Omega$
Resistance	$\leq 5 m\Omega$
Ambient temperature product	-30°C...+90°C
Contact material	Metal, CuZn, gold-plated
Contact-carrier material	Plastic, TPU, BK
Grip body material	Plastic, TPU, BK
Coupling nut material	Metal, CuZn, nickel-plated
Sealing (female) material	FPM/FKM
Shielding	with shielding
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 cable with high mechanical strength. The cable is chemicals, hydrolysis-, and microbes-resistant. The drag-chain application is possible at a bending radius of minimum  $10 \times d$ . 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. Very good EMC-features with shielded versions.

Outer diameter of jacket	6.00 mm
Cable-jacket material	PUR
Jacket color	BK, similar RAL9005
Wire cross-section	$12 \times 0.14 \text{ mm}^2$
Wire insulation material	PP
Wire colors	BN, BU, WH, GN, PK, YE, BK, GY, RD, VT, GYPK, RDBU
Wire structure	$18 \times 0.10 \text{ mm}$
Bending radius (fixed)	$5 \times \varnothing\text{-cable}$
Bending radius (repeated)	$12 \times \varnothing\text{-cable}$
Temperature range (repeated)	$-30^\circ\text{C} \dots +90^\circ\text{C}$
Temperature range (fixed)	$-40^\circ\text{C} \dots +90^\circ\text{C}$
Temperature range (drag chain)	$-25^\circ\text{C} \dots +60^\circ\text{C}$
Drag chain-application	$\geq 2$ Mio. cycles
Shielding	Yes
Halogen-free	Yes
Torsion	$\pm 180^\circ/\text{m}, \geq 0.5$ Mio. cycles
Rated voltage cable	$\leq 300 \text{ V}$
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, 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 $\varnothing 9\text{mm}$ <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>
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