

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



Product data	
Item description	AL-WAKS12-5/S370
Item-No.	8047002
Length	5m
Customs tariff-No.	85444290
Step-File	AL-WAKS12-m.stp
EAN	4047106006563
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	$\leq 5m\Omega$
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

Cable	PUR, UL, S370
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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	≥ 2 Mio. cycles
Shielding	Yes
Halogen-free	Yes
Torsion	$\pm 180^\circ/\text{m}$, ≥ 0.5 Mio. cycles
Rated voltage cable	$\leq 300 \text{ V}$
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 $\varnothing 9\text{mm}$
<https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=809>

Cable Stripping Tool
<https://www.escha.net/en/products/standard/accessories-for-connectivity/8066215>

Cable Stripping Tool
<https://www.escha.net/en/products/standard/accessories-for-connectivity/8066216>

Link to product

<https://www.escha.net/en/products/standard/sensoractuator-connectors/8047002>