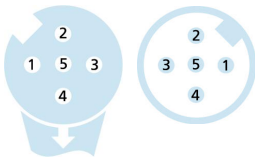
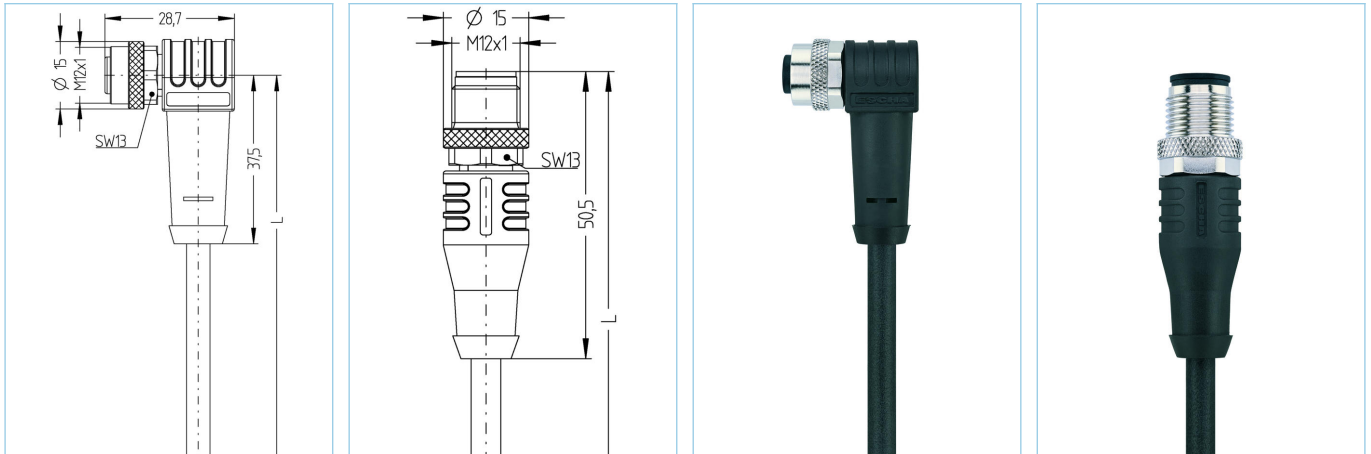


M12, female, angled, 5 poles, M12, male, straight, 5 poles, shielded, sensor-/actuator cable



Product data		
Item description	AL-WWAKS4.5-m-AL-WASS4.5/S370	
Item-No.	V0003093	
Länge	on demand	
Customs tariff-No.	85444290	
Step-File	AL-WWAKS4_5_AL-WASS4_5.stp	
Technical data	A-side	B-side
Connector	female, angled, M12	male, straight, M12
Number of pins	5	5
Pin assignment	1 BN, 2 WH, 3 BU, 4 BK, 5 GY	1 BN, 2 WH, 3 BU, 4 BK, 5 GY
Coding of	A	A
Rated voltage	60V	60V
Current load (at 40°C)	4A	4A
Insulation resistance	$\geq 10^9 \Omega$	$\geq 10^9 \Omega$
Resistance	$\leq 5 \text{ m}\Omega$	$\leq 5 \text{ m}\Omega$
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, BK	Plastic, TPU, BK
Coupling nut material	Metal, CuZn, nickel-plated	Metal, CuZn, nickel-plated
Sealing (female) material	FPM/FKM	
Shielding	with shielding	with shielding
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

Cable web

PUR, UL, S370

Flexible, silicone- and halogen-free control cable with high mechanical strength. The cable is chemicals, hydrolysis-, and microbesresistant. 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	5.60 mm
Cable-jacket material	PUR
Jacket color	BK, similar RAL9005
Wire cross-section	5 x 0.34 mm ²
Wire insulation material	PP
Wire colors	BN, WH, BU, BK, GY
Wire structure	42 x 0.10 mm
Bending radius (fixed)	5 x Ø-cable
Bending radius (repeated)	12 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
Shielding	Yes
Halogen-free	Yes
Torsion	+/-180°/m, ≥ 0.5 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, UV 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-clip, M12

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8047660>

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>

Screw plug, M12

<https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=812>

Screw cap, M12

<https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=811>