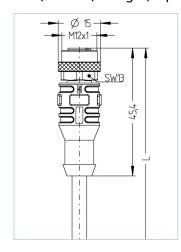
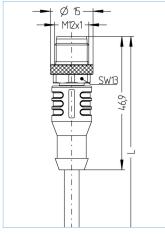


M12, female, straight, 3 poles, M12, male, straight, 3 poles, with LED, sensor-/actuator cable

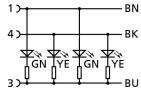














Product data	
Item description	AL-WAK3P2-m-AL-WAS3/S7400
Item-No.	V0005015
Länge	on demand
Customs tariff-No.	85444290
Sten-File	ΔΙ -\\/ΔΚ3Ρ2 ΔΙ -\\/ΔS3 ctn

Technical data	A-side	B-side
Connector	female, straight, M12, with LED	male, straight, M12
Number of pins	3	3
Pin assignment	1 BN, 3 BU, 4 BK	1 BN, 3 BU, 4 BK
Coding of	А	A
Rated voltage	30V	250V
Current load (at 40°C)	4A	4A
Insulation resistance	>=10°Ω	>=10°Ω
Resistance	≤ 5mΩ	≤ 5mΩ
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	pnp	
Signal status-indicator	LED YE	
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



Cable web PUR, UL, S7400, robotic

Flexible, silicone- and halogen free control cable with high mechanical strength. Due to its outstanding properties in drag-chain adaption, torsionresistance and weld-field immunity, it is very well suited for the flexible applications in robotics, handling- and assembly technology as well as machine tools. The cable meets the UL and CSA (UL10493/20549; cULus) requirements.

Outer diameter of jacket 4.80 mm Cable-jacket material PUR Jacket color OG, similar RAL2003 Wire cross-section 3 x 0.34 mm² Wire insulation material PP Wire colors BN, 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 ≥ 10 Mio. cycles Halogen-free Yes Tosion +/-360°m, ≥ 10 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, sliicone free, hydrolysis proof, LABS free, oil resistant, ozone resistant, UV resistant			
Jacket color OG, similar RAL2003 Wire cross-section 3 x 0.34 mm² Wire insulation material PP Wire colors BN, 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 ≥ 10 Mio. cycles Halogen-free Yes Torsion +/-360°/m, ≥ 10 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, or chain-adapted, welding sparks resistant, seawater resistant, silicone free, or chain-adapted, welding sparks resistant, seawater resistant, silicone free, or chain-adapted, welding sparks resistant, seawater resistant, silicone free, or chain-adapted, welding sparks resistant, seawater resistant, silicone free, or chain-adapted, welding sparks resistant, seawater resistant, silicone free, or chain-adapted, welding sparks resistant, seawater resistant, silicone free	Outer diameter of jacket	4.80 mm	
Wire cross-section 3 x 0.34 mm² Wire insulation material PP Wire colors BN, 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 ↓ 10 Mio. cycles Halogen-free Yes Tosion A'-360°/m, ≥ 10 Mio. cycles Rated voltage cable 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, expectation of the compliant of the compliant, acid- and alkali resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, expectation of the compliant of the	Cable-jacket material	PUR	
Wire insulation material PP Wire colors BN, 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 ≥ 10 Mio. cycles Halogen-free Yes Torsion +/-360°/m, ≥ 10 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, ochain-adapted, welding sparks resistant, seawater resistant, sea	Jacket color	OG, similar RAL2003	
Wire colors BN, 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) 7-30°C+90°C Temperature range (fixed) 40°C+90°C Temperature range (drag chain) 25°C+60°C Drag chain-application 10 x Ø-cable 40°C+90°C Temperature range (fixed) 40°C+90°C Temperature range (drag chain) 40°C+60°C Temperature range (drag chain) 50 x Ø-cable 40°C+90°C Temperature range (drag chain) 40°C+90°C Temperature range (drag chain) 50 x Ø-cable Temperature range (fixed) 40°C+90°C Temperature range (drag chain) 40°C+90°C Temperature range (drag chain) 50 x Ø-cable 10 x Ø-cabl	Wire cross-section	3 x 0.34 mm ²	
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 ≥ 10 Mio. cycles Halogen-free Yes Torsion +/-360°/m, ≥ 10 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, seawater resistant, silicone free, seawater resistant, silicone free, seawater resistant, silicone free, seawater resistant, seawater resistant seawater resistant seawater seawater seawater seawater seawater seawater seawater seawater seawater	Wire insulation material	PP	
Bending radius (fixed) 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 ≥ 10 Mio. cycles Halogen-free Yes Torsion +/-360°/m, ≥ 10 Mio. cycles Rated voltage cable 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, seawater resistant, seawater resistant, silicone free, seawater resistant, seawater resistant, silicone free, seawater resistant,	Wire colors	BN, BU, BK	
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 ≥ 10 Mio. cycles Halogen-free Yes Torsion +/-360°/m, ≥ 10 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, seawater resistant,	Wire structure	42 x 0.10 mm	
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 ≥ 10 Mio. cycles Halogen-free Yes Torsion +/-360°/m, ≥ 10 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, seawater resistant, seawater resistant, silicone free, seawater resistant, seawater resistant, silicone free, seawater resistant,	Bending radius (fixed)	5 x Ø-cable	
Temperature range (fixed) -40°C+90°C Temperature range (drag chain) -25°C+60°C Drag chain-application ≥ 10 Mio. cycles Halogen-free Yes Torsion +/-360°/m, ≥ 10 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, hydrolysis proof	Bending radius (repeated)	10 x Ø-cable	
Temperature range (drag chain) -25°C+60°C Drag chain-application ≥ 10 Mio. cycles Halogen-free Yes Torsion +/-360°/m, ≥ 10 Mio. cycles 8ated 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, hydrolysis proof, LABS free, oil resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, hydrolysis proof, LABS free, oil resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, hydrolysis proof, LABS free, oil resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, hydrolysis proof, LABS free, oil resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, hydrolysis proof, LABS free, oil resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, hydrolysis proof, LABS free, oil resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, hydrolysis proof, LABS free, oil resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, hydrolysis proof, LABS free, oil resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, hydrolysis proof, LABS free, oil resistant, drag chain-adapted, welding sparks resistant, seawater resi	Temperature range (repeated)	-30°C+90°C	
Drag chain-application ≥ 10 Mio. cycles Halogen-free Yes Torsion +/-360°/m, ≥ 10 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, seawater resistant, seawater resistant, silicone free, seawater resistant, seawater r	Temperature range (fixed)	-40°C+90°C	
Halogen-free Yes Torsion +/-360°/m, ≥ 10 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, hydrolysis proof that is the compliant of the comp	Temperature range (drag chain)	-25°C+60°C	
Torsion +/-360°/m, ≥ 10 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,	Drag chain-application	≥ 10 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,	Halogen-free	Yes	
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	+/-360°/m, ≥ 10 Mio. cycles	
ozone resistant, recyclable, RoHs compliant, acid- and alkali resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free,	Rated voltage cable	≤300 V	
	Special features	ozone resistant, recyclable, RoHs compliant, acid- and alkali resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free,	

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

n/products/standard/accessories-for-connectivity/8047660

Torque-wrench set https://www.escha.net/en/products/standard/accessories-for-connectivity/8055431

 $\label{lem:marking} Marking\ rings\ \varnothing\ 9mm \\ \ \text{https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1\&o=3\&n=15\&f=809}$

 $Screw\ plug,\ M12 \\ \text{https://www.escha.net/er/products/standard/accessories-for-connectivity?} p=1\&o=3\&n=15\&f=812 \\$

 $Screw\ cap,\ M12 \\ https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1\&o=3\&n=15\&f=811$