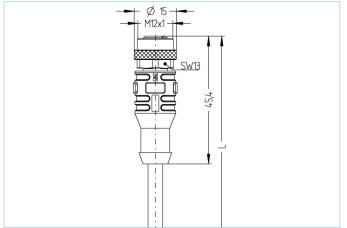


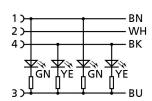
M12, female, straight, 4 poles, with LED, sensor-/actuator cable







Product data





Item-No. 8048938 Length 2m Customs tariff-No. 85444290 Step-File AL-WAK4P2.stp EAN 4047106008925 Technical data Technical forms 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 Resistance ≤ 5mΩ Ambient temperature product -30°C+90°C Circuit logic pnp Signal status-indicator LED YE Operating voltage-indicator LED GN Contact material Metal, CuZn, gold-plated Contact-carrier material Plastic, TPU, BK Grip body material Metal, CuZn, nickel-plated Sealing (female) material Metal, CuZn, nickel-plated	Item description	AL-WAK4P2-2/S370
Customs tariff-No. 85444290 Step-File AL-WAK4P2.stp EAN 4047106008925 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 >=10°Ω Resistance ≤ 5mΩ Ambient temperature product -30°C+90°C Circuit logic pnp Signal status-indicator LED YE Operating voltage-indicator LED GN Contact material Metal, CuZn, gold-plated Contact-carrier material Plastic, TPU, transparent Coupling nut material Metal, CuZn, nickel-plated	Item-No.	8048938
Step-FileAL-WAK4P2.stpEAN4047106008925Technical dataConnectorfemale, straight, M12, with LEDNumber of pins4Pin assignment1 BN, 2 WH, 3 BU, 4 BKCodingARated voltage30VCurrent load per pin (at 40°C)4AInsulation resistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED YEContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialMetal, CuZn, nickel-platedCoupling nut materialMetal, CuZn, nickel-plated	Length	2m
EAN4047106008925Technical dataFemale, straight, M12, with LEDConnectorfemale, straight, M12, with LEDNumber of pins4Pin assignment1 BN, 2 WH, 3 BU, 4 BKCodingARated voltage30VCurrent load per pin (at 40°C)4AInsulation resistance≤ 5mΩResistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialMetal, CuZn, nickel-platedCoupling nut materialMetal, CuZn, nickel-plated	Customs tariff-No.	85444290
Technical dataConnectorfemale, straight, M12, with LEDNumber of pins4Pin assignment1 BN, 2 WH, 3 BU, 4 BKCodingARated voltage30VCurrent load per pin (at 40°C)4AInsulation resistance>=10°ΩResistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialMetal, CuZn, nickel-platedCoupling nut materialMetal, CuZn, nickel-plated	Step-File	AL-WAK4P2.stp
Connectorfemale, straight, M12, with LEDNumber of pins4Pin assignment1 BN, 2 WH, 3 BU, 4 BKCodingARated voltage30VCurrent load per pin (at 40°C)4AInsulation resistance>=10°ΩResistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialMetal, CuZn, nickel-platedCoupling nut materialMetal, CuZn, nickel-plated	EAN	4047106008925
Number of pins4Pin assignment1 BN, 2 WH, 3 BU, 4 BKCodingARated voltage30VCurrent load per pin (at 40°C)4AInsulation resistance>=10°ΩResistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialMetal, CuZn, nickel-platedCoupling nut materialMetal, CuZn, nickel-plated	Technical data	
Pin assignment1 BN, 2 WH, 3 BU, 4 BKCodingARated voltage30VCurrent load per pin (at 40°C)4AInsulation resistance>=10°ΩResistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialPlastic, TPU, transparentCoupling nut materialMetal, CuZn, nickel-plated	Connector	female, straight, M12, with LED
CodingARated voltage30VCurrent load per pin (at 40°C)4AInsulation resistance>=10°ΩResistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialPlastic, TPU, transparentCoupling nut materialMetal, CuZn, nickel-plated	Number of pins	4
Rated voltage30VCurrent load per pin (at 40°C)4AInsulation resistance>=10°ΩResistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialPlastic, TPU, transparentCoupling nut materialMetal, CuZn, nickel-plated	Pin assignment	1 BN, 2 WH, 3 BU, 4 BK
Current load per pin (at 40°C)4AInsulation resistance>=10°ΩResistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialPlastic, TPU, transparentCoupling nut materialMetal, CuZn, nickel-plated	Coding	A
Insulation resistance>=10°ΩResistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialPlastic, TPU, transparentCoupling nut materialMetal, CuZn, nickel-plated	Rated voltage	30V
Resistance≤ 5mΩAmbient temperature product-30°C+90°CCircuit logicpnpSignal status-indicatorLED YEOperating voltage-indicatorLED GNContact materialMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKGrip body materialPlastic, TPU, transparentCoupling nut materialMetal, CuZn, nickel-plated	Current load per pin (at 40°C)	4A
Ambient temperature product Circuit logic pnp Signal status-indicator LED 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	Insulation resistance	>=10°Ω
Circuit logic pnp Signal status-indicator LED 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	Resistance	≤ 5mΩ
Signal status-indicator 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	Ambient temperature product	-30°C+90°C
Operating voltage-indicator Contact material Contact-carrier material Contact-carrier material Grip body material Coupling nut material LED GN Metal, CuZn, gold-plated Plastic, TPU, BK Plastic, TPU, transparent Metal, CuZn, nickel-plated	Circuit logic	pnp
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	Signal status-indicator	LED YE
Contact-carrier material Plastic, TPU, BK Grip body material Plastic, TPU, transparent Coupling nut material Metal, CuZn, nickel-plated	Operating voltage-indicator	LED GN
Grip body material Plastic, TPU, transparent Coupling nut material Metal, CuZn, nickel-plated	Contact material	Metal, CuZn, gold-plated
Coupling nut material Metal, CuZn, nickel-plated	Contact-carrier material	Plastic, TPU, BK
	Grip body material	Plastic, TPU, transparent
Sealing (female) material FPM/FKM	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
Cable	PUR, UL, S370

Flexible, silicone- and halogen-free control line with high mechanical strength. The cable is chemicals, hydrolysis-, and microbes- resistant. The dragchain 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 ²
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, 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 Ø 9mm

na.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

net/en/products/standard/accessories-for-connectivity/8066216

Link to product

https://www.escha.net/en/products/standard/sensoractuator-connectors/8048938