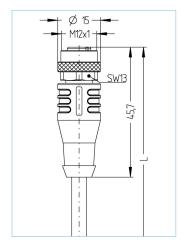
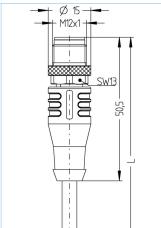


## M12, female, straight, 12 poles, M12, male, straight, 12 poles, shielded, sensor-/actuator cable

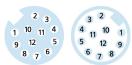






AL-WAKS12-m-AL-WASS12/P01





Product data Item description



Nem-No.         V0003857           Länge         on demand           Customs tariff-No.         85444290           Step-File         AL-WAKS12-m-AL-WAS512 stp           Technical data         A-side         8-side           Connector         female, straight, M12         male, straight, M12         male, straight, M12           Number of pins         12         12         12           Pin assignment         18 N, 2 BJ, 3 WH, 4 GN, 5 PK, 6 YE, 7 BK, 8 GY, 9 RD, 10 VT, 11 GYPK, 12 RDBU         18 BN, 2 BJ, 3 WH, 4 GN, 5 PK, 6 YE, 7 BK, 8 GY, 9 RD, 10 VT, 11 GYPK, 12 RDBU         18 CA           Coding of         A         A         30V         30V           Current load (at 40°C)         1.5A         1.5A         1.5A           Insulation resistance         ≤ 5mΩ         ≥ 10°Ω         ≥ 10°Ω           Resistance         ≤ 5mΩ         ≤ 5mΩ         ≥ 10°Ω           Ambient temperature product         30°C-+90°C         30°C-+90°C         30°C-+90°C           Contact-carrier material         Metal, CuZn, gold-plated         Metal, CuZn, gold-plated         Metal, CuZn, gold-plated           Goippid gody material         Metal, CuZn, nickel-plated         Metal, CuZn, nickel-plated         Metal, CuZn, nickel-plated           Selling (fernale) material	•		
Customs tariff-No.         85444290           Step-File         AL-WAKS12-m-AL-WASS12.stp           Technical data         A-side         B-side           Connector         female, straight, M12         male, straight, M12           Number of pins         12         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         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 of         A         A         A           Rated voltage         30V         30V         30V           Current load (at 40°C)         1,5A         1,5A         1,5A           Insulation resistance         ≤ 5mΩ         ≤ 5mΩ         ≤ 5mΩ           Ambient temperature product         30°C+90°C         -30°C+90°C           Contact-arrier material         Metal, CuZn, gold-plated         Metal, CuZn, gold-plated           Grip body material         Plastic, TPU, BK         Plastic, TPU, BK           Grupting nut material         Metal, CuZn, nickel-plated         Metal, CuZn, nickel-plated           Sealing (female) material         FPMFKM         with shielding         with shielding           Standards         IEC 61076-2-101         IEC 61076-2-101         IEC 61076-2-101	Item-No.	V0003857	
Step-File         AL-WAKS12-m-AL-WASS12.stp           Technical data         A-side         B-side           Connector         female, straight, M12         male, straight, M12           Number of pins         12         12           Pin assignment         12 BN, 2 BU, 3 WH, 4 GN, 5 PK, 6 YE, 7 BK, 8 GY, 9 RD, 10 VT, 11 GYPK, 12 RDBU         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 of         A         A           Rated voltage         30V         30V           Current load (at 40°C)         1.5A         1.5A           Insulation resistance         >=10°Ω         >=10°Ω           Resistance         ≤ 5mΩ         ≤ 5mΩ           Ambient temperature product         -30°C+90°C         -30°C+90°C           Contact material         Metal, CuZn, gold-plated         Metal, CuZn, 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         IEC 61076-2-101           Stendards         IEC 61076-2-101         IEC 61076-2-101           Degree o	Länge	on demand	
Technical dataA-sideB-sideConnectorfemale, straight, M12male, straight, M12Number of pins1212Pin assignment1, BN, 2, BU, 3, WH, 4, GN, 5, PK, 6, YE, 7, BK, 8, GY, 9, RD, 10, VT, 11, GYPK, 12, RDBU1, BN, 2, BU, 3, WH, 4, GN, 5, PK, 6, YE, 7, BK, 8, GY, 9, RD, 10, VT, 11, GYPK, 12, RDBUCoding ofAARated voltage30V30VCurrent load (at 40°C)1,5A1,5AInsulation resistance>=10°Ω>=10°ΩResistance≤ 5mΩ≤ 5mΩAmbient temperature product-30°C+90°C-30°C+90°CContact materialMetal, CuZn, gold-platedMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKPlastic, TPU, BKGrip body materialPlastic, TPU, BKPlastic, TPU, BKCoupling nut materialMetal, CuZn, nickel-platedMetal, CuZn, nickel-platedSealing (female) materialFPM/FKMShieldingwith shieldingwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Customs tariff-No.	85444290	
Connectorfemale, straight, M12male, straight, M12Number of pins1212Pin assignment1BN, 2 BU, 3 WH, 4 GN, 5 PK, 6 YE, 7 BK, 8 GY, 9 RD, 10 VT, 11 GYPK, 12 RDBU1 BN, 2 BU, 3 WH, 4 GN, 5 PK, 6 YE, 7 BK, 8 GY, 9 RD, 10 VT, 11 GYPK, 12 RDBUCoding ofAARated voltage30V30VCurrent load (at 40°C)1.5A1.5AInsulation resistance>=10°Ω>=10°ΩResistance≤ 5mΩ≤ 5mΩAmbient temperature product-30°C+90°C-30°C+90°CContact materialMetal, CuZn, gold-platedMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKPlastic, TPU, BKGrip body materialPlastic, TPU, BKPlastic, TPU, BKCoupling nut materialMetal, CuZn, nickel-platedMetal, CuZn, nickel-platedSealing (female) materialFPM/FKMwith shieldingwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Step-File	AL-WAKS12-m-AL-WASS12.stp	
Number of pins1212Pin assignment1 BN, 2 BU, 3 WH, 4 GN, 5 PK, 6 YE, 7 BK, 8 GY, 9 RD, 10 VT, 11 GYPK, 12 RDBU1 BN, 2 BU, 3 WH, 4 GN, 5 PK, 6 YE, 7 BK, 8 GY, 9 RD, 10 VT, 11 GYPK, 12 RDBUCoding ofAARated voltage30V30VCurrent load (at 40°C)1.5A1.5AInsulation resistance>=10°Ω>=10°ΩResistance≤ 5 mΩ≤ 5 mΩAmbient temperature product-30°C+90°C-30°C+90°CContact materialMetal, CuZn, gold-platedMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKPlastic, TPU, BKGrip body materialPlastic, TPU, BKPlastic, TPU, BKCoupling nut materialMetal, CuZn, nickel-platedMetal, CuZn, nickel-platedSealing (female) materialFPM/FKMShieldingwith shieldingwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Technical data	A-side	B-side
Pin assignment  RD, 10 VT, 11 GYPK, 12 RDBU  RD, 10 VT, 11 GYPK, 12 RDBU  RR, 10 VT, 11 GYPK, 12 RDB  RR, 10 VT, 11 GYPK, 12 RDU  RR, 10 VT, 11 GYPK, 12 RDB  RR, 10 VT, 11 GYPK, 12 RDB  RR, 10 VT, 11 GYPK, 12 RDB  RR, 10 VT, 11 GYPK, 12 RDU  RR, 10 VT, 11 GYPK, 12	Connector	female, straight, M12	male, straight, M12
Prin assignmentRD, 10 VT, 11 GYPK, 12 RDBURD, 10 VT, 11 GYPK, 12 RDBUCoding ofAARated voltage30V30VCurrent load (at 40°C)1.5A1.5AInsulation resistance>=10°Ω>=10°ΩResistance≤ 5mΩ≤ 5mΩAmbient temperature product-30°C+90°C-30°C+90°CContact materialMetal, CuZn, gold-platedMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKPlastic, TPU, BKGrip body materialPlastic, TPU, BKPlastic, TPU, BKCoupling nut materialMetal, CuZn, nickel-platedMetal, CuZn, nickel-platedSealing (female) materialFPM/FKMShieldingwith shieldingwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Number of pins	12	12
Rated voltage30V30VCurrent load (at 40°C)1.5A1.5AInsulation resistance>=10° $\Omega$ >=10° $\Omega$ Resistance $\leq 5m\Omega$ $\leq 5m\Omega$ Ambient temperature product-30°C+90°C-30°C+90°CContact materialMetal, CuZn, gold-platedMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKPlastic, TPU, BKGrip body materialPlastic, TPU, BKPlastic, TPU, BKCoupling nut materialMetal, CuZn, nickel-platedMetal, CuZn, nickel-platedSealing (female) materialFPM/FKMShieldingwith shieldingwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Pin assignment		
Current load (at 40°C)1.5A1.5AInsulation resistance>=10°Ω>=10°ΩResistance≤ 5mΩ≤ 5mΩAmbient temperature product-30°C+90°C-30°C+90°CContact materialMetal, CuZn, gold-platedMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKPlastic, TPU, BKGrip body materialPlastic, TPU, BKPlastic, TPU, BKCoupling nut materialMetal, CuZn, nickel-platedMetal, CuZn, nickel-platedSealing (female) materialFPM/FKMwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Coding of	A	А
Insulation resistance>=10°Ω>=10°ΩResistance≤ 5mΩ≤ 5mΩAmbient temperature product-30°C+90°C-30°C+90°CContact materialMetal, CuZn, gold-platedMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKPlastic, TPU, BKGrip body materialPlastic, TPU, BKPlastic, TPU, BKCoupling nut materialMetal, CuZn, nickel-platedMetal, CuZn, nickel-platedSealing (female) materialFPM/FKMwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Rated voltage	30V	30V
Resistance $\leq 5m\Omega$ $\leq 5m\Omega$ Ambient temperature product $-30^{\circ}C+90^{\circ}C$ $-30^{\circ}C+90^{\circ}C$ Contact materialMetal, CuZn, gold-platedMetal, CuZn, gold-platedContact-carrier materialPlastic, TPU, BKPlastic, TPU, BKGrip body materialPlastic, TPU, BKPlastic, TPU, BKCoupling nut materialMetal, CuZn, nickel-platedMetal, CuZn, nickel-platedSealing (female) materialFPM/FKMwith shieldingShieldingwith shieldingwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Current load (at 40°C)	1.5A	1.5A
Ambient temperature product -30°C+90°C -30°C+90°C  Contact material Metal, CuZn, gold-plated Metal, CuZn, 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	Insulation resistance	>=10 <sup>8</sup> Ω	>=10°Ω
Contact material Metal, CuZn, gold-plated Metal, CuZn, 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 Mechanical life-cycle >100 mating cycles  Metal, CuZn, gold-plated Plastic, TPU, BK Plastic, TPU, BK Metal, CuZn, nickel-plated Metal, CuZn, nickel-plated IEC 61076, IP68 IEC 61076-2-101 IEC 61076-2-101 IEC 61076-2-101	Resistance	≤ 5mΩ	≤ 5mΩ
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	Ambient temperature product	-30°C+90°C	-30°C+90°C
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	Contact material	Metal, CuZn, gold-plated	Metal, CuZn, gold-plated
Coupling nut materialMetal, CuZn, nickel-platedMetal, CuZn, nickel-platedSealing (female) materialFPM/FKMShieldingwith shieldingwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Contact-carrier material	Plastic, TPU, BK	Plastic, TPU, BK
Sealing (female) materialFPM/FKMShieldingwith shieldingwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Grip body material	Plastic, TPU, BK	Plastic, TPU, BK
Shieldingwith shieldingwith shieldingStandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Coupling nut material	Metal, CuZn, nickel-plated	Metal, CuZn, nickel-plated
StandardsIEC 61076-2-101IEC 61076-2-101Degree of protection (mounted)IP65, IP67, IP68IP65, IP67, IP68Mechanical life-cycle>100 mating cycles>100 mating cycles	Sealing (female) material	FPM/FKM	
Degree of protection (mounted) IP65, IP67, IP68 IP65, IP67, IP68  Mechanical life-cycle >100 mating cycles >100 mating cycles	Shielding	with shielding	with shielding
Mechanical life-cycle >100 mating cycles >100 mating cycles	Standards	IEC 61076-2-101	IEC 61076-2-101
	Degree of protection (mounted)	IP65, IP67, IP68	IP65, IP67, IP68
Degree of pollution 3 3	Mechanical life-cycle	>100 mating cycles	>100 mating cycles
	Degree of pollution	3	3



Cable web PVC, UL, P01, GY

PVC-cable for measurement and control-, and sensor technology. Suitable for applications in dry areas on packaging machines, assembly- and conveyor technology. High flexibility with unstressed movement (conditional drag-chain application possible). Predestined for applications in food- and beverage industry. P01-cables meet the UL and CSA (UL1729/2464; cULus) requirements. Very good EMC-features with shielded versions.

6.60 mm	
PVC	
GY, similar RAL7040	
12 x 0.14 mm²	
PVC	
BN, BU, WH, GN, PK, YE, BK, GY, RD, VT, GYPK, RDBU	
18 x 0.10 mm	
5 x Ø-cable	
10 x Ø-cable	
0°C+80°C	
-25°C+80°C	
Yes	
≤300 V	
good resistance against oils and chemicals, hydrolysis proof, LABS free, ozone resistant, recyclable, RoHs compliant, acid- and alkali resistant, seawater 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

cha.net/en/products/standard/accessories-for-connectivity/8055431

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

Screw plug, M12

net/en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=812

Screw cap, M12 /en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=811