

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com





Sensor/actuator cables are used for wiring sensors and actuators and for transmitting data or power in various applications. The moulded cable offers connected and tested connection of the plug-in connector to the cable ex-works. The cables may be exposed to a wide range of conditions, such as humidity, dust, heat, cold, shock or vibration.

Our developers have focused specifically on this issue and designed a host of different M8 and M12 sensor-actuator cables so you are bound to find the solution you need for your application.

The M8 and M12 sensor-actuator cables are supplied as standard with brass nickel-plated nuts. However if you are looking to use our products in an extremely harsh environment, we can also supply a variant with a plastic nut. This enables use in environments where cables with nickel-plated M8 and M12 nuts would rust. Is there something you have not managed to find or you

feel needs explanation? Talk to us!

General ordering data

GTIN (EAN) Qtv.	4032248888016 1 pc(s).
Туре	SAIP-M12GM12W-3-1.5U
Order No.	<u>1108870150</u>
Version	Sensor/actuator line, Connecting line, M12 / M12, Number of poles : 3, 1.5 m, pin, straight - socket, 90°, Shielded: No, LED: No, Sheath material: PUR, Halogen: No

Technical data



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Environmental Product Compliance REACH SVHC Lead 7439-92-1 Technical specifications for cable Acceleration 5 m/s² Bending cycles at torsion > 5 Mio. Bending radius, min., stationary 5 x cable diameter Colour coding brown, blue, black Core cross-section 0.34 mm² Halogen No Hasulation PP Length of torsion 1 m Outer cladding in accordance with UL 20233/21198 (80 °C / 300 V) Resistance to oils In accordance with UL 1058 UL/ CUL FT in accordance with UL 105322-12, in accord				
REACH SVHC Lead 7439-92-1 Technical specifications for cable Acceleration 5 m/s^2 Bending cycles at torsion > 5 Mio. Bending radius, min., stationary > x cable diameter Colour coding brown, blue, black Core cross-section 0.34 mm^2 Halogen No Insulation PP Length of torsion 1 m Outer cladding in accordance with UL 20233/21198 (80 °C / 300 °V) Resistance to oils 0 V Resistance to oils 0 V Resistant to welding beads No Speed 5 m/s Temperature range, moving -2580 °C Torsion resistance 360 °/m General technical data M12 / M12 Housing main material PUR Pollution severity 3 Reta current 4 A Temperature range of housing 40 +85 °C Triphening torque M12 (plastic): 0.9 - 1.1 Nm Pollution severity 3 Reta current 4 A Temperature range of housing 40 +85 °C	Net weight	63 g		
Technical specifications for cable Acceleration 5 m/s² Bending cycles at torsion > 6 Mio. Bending radius, min., stationary 5 x cable diameter Colour coding brown, blue, black Core cross-section 0.34 mm² Halogen No Insulation PP Langth of torsion 1 m Duter cladding in accordance with UL 2023/21198 (80 °C / 300 V) Resistance to oils 1 m Duter cladding in accordance with UL 2023/21198 (80 °C / 300 V) Resistance to oils 1 m No Hydrolysis and microbe resistant Yes Strathing colour 1 m Sheath material PUR Sheath material PUR </th <th>Environmental Product Comp</th> <th>liance</th> <th></th> <th></th>	Environmental Product Comp	liance		
Acceleration 5 m/s² Bending cycles 12 Mio Bending cycles at torsion 5 Mio. Bending cycles 10 x cable diameter Colour coding Drown, blue, black Cori arcoscratance with UL AWM style 104 x cable diameter Core cross-section 0.34 mm² Cori arcoscratance with UL WM style 104 x cable diameter Insulation PP LABS-free Yes LABS-free Yes Number of poles 3 Outsr cladding in accordance with UL 20233/21198 (80 °C / 300 V) Outside diameter 4.3 mm ± 0.2 mm Resistance to oils in accordance with IEC 60811:4:04 No Socardance with IEC 60332-1.2, in accordance with IEC 60332-1.2, in accordance with IEC 60332-2.2 Sheathing colour black Speed 5 m/s Temperature range, moving -2580 °C Temperature range, stationary -4080 °C Torsion resistance 360 °/m Sheath material PUR Sheathing colour black Speed Sneifled No Speed 5 m/s Steath material PUR Sheath material PUR LED No Plugging cycles 2 100 P	REACH SVHC	Lead 7439-92-1		
Bending cycles at torsion > 5 Mio. Bending radius, min., stationary 5 x cable diameter Colour coding brown, blue, black Core cross-section 0.34 mm² Halogen No Insulation PP Length of torsion 1 m Outer cladding in accordance with UL 20233/21198 (80 °C / 300 Hy/sis and microbe resistant AVM style 2033/21198 (80 °C / 300 V) Resistance to oils in accordance with IEC 60811:404 Resistant to welding beads No Sheathing colour black Speed 5 m/s Temperature range, moving -2580 °C General technical data M12 / M12 Mousing main material PUR Pollution severity 3 Rated current 4 A Art size 12 mm Coding cycles ≥ 100 Protection degree IP65, IP66, IP67, IP6 Protection degree IP65, IP66, IP67, IP6 When screwed in Io [®] A Cording cycles ≥ 100 No Protection degree IP65, IP66, IP67, IP6	Technical specifications for c	able		
Bending cycles at torsion > 5 Mio. Bending radius, min., stationary 5 x cable diameter Colour coding brown, blue, black Core cross-section 0.34 mm² Halogen No Insulation PP Length of torsion 1 m Outer cladding in accordance with UL 20233/21198 (80 °C / 300 Hydrolysis and microbe resistant AVM style 2033/21198 (80 °C / 300 V) Resistance to oils 0 Viside diameter Win Style 300 V) Resistance to oils 0 Viside diameter Sheathing colour black Speed 5 m/s Temperature range, moving -2580 °C General technical data M12 / M12 AF size 12 mm Contact surface Gold-plated Insulation strength 10 ⁸ Q Pollution severity 3 Rated current 4 A Mated scipe	Acceleration	5 m/s²	Bending cycles	12 Mio
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WM style 300 V) 4.3 mm ± 0.2 mm lesistance to oils In accordance with IEC In accordance with IEC in accordance with IEC 60811:404 In accordance with IEC 60811:404 Sheath material PUR sheathing colour black Sheilded No sheathing colour black Sheilded No sineaction resistance 300 °C Temperature range, stationary 4080 °C General technical data M12 / M12 Coding A KF size 12 mm Coding A Connection thread M12 / M12 Contact surface Gold-plated Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree ≥100 Protection degree 250 V emperature range of housing -43 mm ± 0.2 mm add orign and trial PUR Puted current 4 A emperature range of housing -40 +85 ° C ightening torque M12 (plastic): 0.9 - 1.1 Nm umpered No	ength of torsion	1 m	Number of poles	3
In accordance with IEC 60811:404 In accordance with IEC 60811:404 In accordance with IEC 60332-1-2, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheath material PUR Sheath material PUR Signed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, stationary -4080 °C Seneral technical data M12 / M12 Coding A Connection thread M12 / M12 Contact surface Gold-plated Insulation strength 10 ⁶ Ω Plugging cycles ≥ 100 Polution severity 3 Rated voltage 250 ∨ Threaded ring material Plastic Yersion 90° Threaded ring material Plastic Yersion 90°			Outside diameter	4.3 mm ± 0.2 mm
Sheathing colour black Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, stationary -4080 °C Torsion resistance 360 °/m Temperature range, stationary -4080 °C General technical data Temperature range, stationary -4080 °C AF size 12 mm Coding A Connection thread M12 / M12 Contact surface Gold-plated Housing main material PUR Insulation strength 10 ⁸ Ω ED No Plugging cycles ≥ 100 Pollution severity 3 when screwed in Rated current 4 A Rated voltage 250 V Tightening torque M12 (plastic): 0.9 - 1.1 Nm M12 (plastic): 0.9 - 1.1 Nm yo°	Resistance to oils	_	Resistance to spread of flame	UL1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC
Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, stationary -4080 °C Torsion resistance 360 °/m Temperature range, stationary -4080 °C General technical data Seneral technical data Coding A AF size 12 mm Coding A Connection thread M12 / M12 Contact surface Gold-plated Housing main material PUR Insulation strength 10 ⁸ Ω ED No Plugging cycles ≥ 100 Pollution severity 3 Rated current 4 A Temperature range of housing -40+85 ° C Threaded ring material Plastic Threaded ring material Plastic Version pin, straight - socket, 90&///90&///90&///90&///90&///90&///90&///90&///90&///90&///90&///90&///90&///90&////90&///90&////90&////90&////90&////90&////90&////90&////90&///90&////90&////90&////90&////90&////90&////90&///90&////90&///90&////90&///90&////90&////90&////90&////90&////90&////90&////90&////90&////90&////90&////90&////90&////90&////90&//	Resistant to welding beads	No	Sheath material	PUR
iemperature range, moving -2580 °C forsion resistance 360 °/m General technical data I2 mm KF size 12 mm Connection thread M12 / M12 Housing main material PUR ED No Pollution severity 3 Sated current 4 A remperature range of housing -4080 °C M12 (plastic): 0.9 - 1.1 Nm Temperature range, stationary M12 (plastic): 0.9 - 1.1 Nm Temperature range	sheathing colour	black	Shielded	No
Torsion resistance 360 °/m General technical data Gold of the second seco	Speed	,	Suitable for cable carriers	Yes
General technical data AF size 12 mm Connection thread M12 / M12 dousing main material PUR LED No Pollution severity Plugging cycles 3 2 Rated current 4 A Temperature range of housing -40 +85 ° C Tightening torque M12 (plastic): 0.9 - 1.1 Nm umpered No	emperature range, moving	-2580 °C	Temperature range, stationary	-4080 °C
AF size12 mmCodingAConnection threadM12 / M12Contact surfaceGold-platedHousing main materialPURInsulation strength10 ⁸ ΩEDNoPlugging cycles≥ 100Pollution severity3Protection degreeIP65, IP66, IP67, IP6Rated current4 ARated voltage250 VTemperature range of housing-40 +85 ° CThreaded ring materialPlasticTightening torqueM12 (plastic): 0.9 - 1.1 NmVersionpin, straight - socket, 90°	orsion resistance	360 °/m		
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Connection threadM12 / M12Contact surfaceGold-platedHousing main materialPURInsulation strength10 ⁸ ΩEDNoPlugging cycles≥ 100Pollution severity3Protection degreeIP65, IP66, IP67, IP6Rated current4 ARated voltage250 VTemperature range of housing-40 +85 ° CThreaded ring materialPlasticVersionpin, straight - socket, 90°90°umperedNoNoPole contact surfaceNo		10 mm	Coding	٨
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umpered No				pin, straight - socket,
Electrical properties	umpered			~
	lectrical properties			
nsulation strength $10^8 \Omega$ Rated voltage $250 V$	nsulation strength	10 ⁸ O	Rated voltage	250 V
		5007001		

Connector standard

Certificate no. (cULus)

E307231

IEC 61076-2-101

Technical data



Weidmüller Interface GmbH & Co. KG

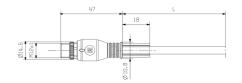
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Standards			
Stanuarus			
Connector standard	IEC 61076-2-101		
Classifications			
ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	EC001855	ECLASS 9.0	27-06-03-11
ECLASS 9.1	27-06-03-11	ECLASS 9.0	27-06-03-11
ECLASS 11.0	27-06-03-11		27-00-03-11
Approvals			
Approvals	(<u>م</u>	
		UUS TED	
ROHS	Conform		
UL File Number Search	E307231		
Downloads			
Engineering Data	EPLAN, WSCAD		
Catalogues	Catalogues in PDF-for	<u>mat</u>	
Brochures	<u>FL FIELDWIRING EN</u>		

Drawings

Dimensioned drawing



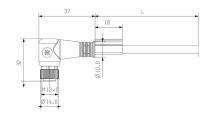


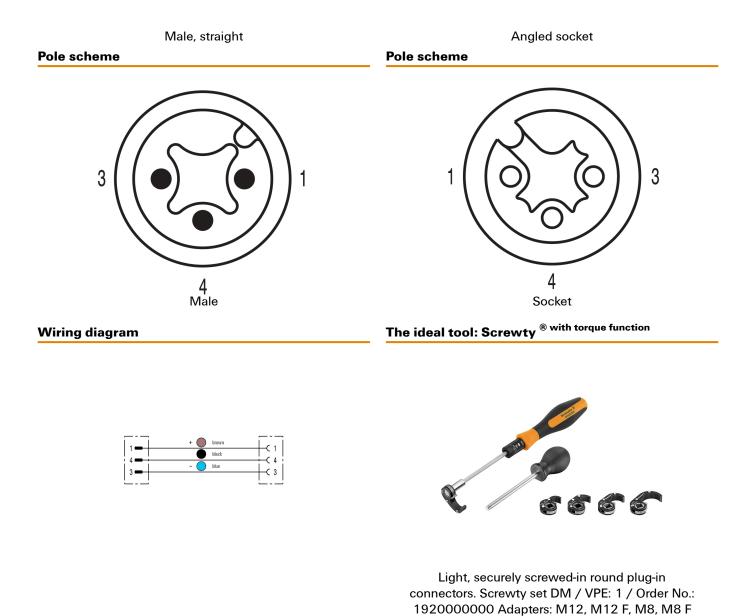
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Dimensioned drawing





Creation date January 20, 2022 6:04:01 PM CET

Catalogue status 14.01.2022 / We reserve the right to make technical changes.



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Accessories

Screwty® cable gland tool with torque function



The ideal tool for any application

Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

General ordering data

Туре	SAI-SCREWTY BOX	Version
Order No.	<u>1939180000</u>	Bolting tool
GTIN (EAN)	4032248615506	
Qty.	1 pc(s).	
Туре	SCREWTY-M12-DM	Version
Order No.	<u>1900001000</u>	Cable gland tool for moulded M12 lines
Order No. GTIN (EAN)	<u>1900001000</u> 4032248436408	Cable gland tool for moulded M12 lines

Tools



- Stripping tools with automatic self-adjustment
- For flexible and solid conductors
- Ideally suitable for mechanical and plant engineering, railway and rail traffic, wind energy, robot technology, explosion protection as well as marine, offshore and ship building sectors
- Stripping length adjustable via end stop
- · Automatic opening of clamping jaws after stripping
- No fanning-out of individual conductors
- Adjustable to diverse insulation thicknesses
- Double-insulated cables in two process steps without special adjustment
- No play in self-adjusting cutting unit
- Long service life
- Optimised ergonomic design

General ordering data

Туре	STRIPPER 6-16 RED-LINE	Version
Order No.	<u>9203110000</u>	Stripping and cutting tool
GTIN (EAN)	4032248541423	
Qty.	1 pc(s).	

Accessories

Tools



General ordering data

 Type
 AM 12

 Order No.
 9030060000

 GTIN (EAN)
 4008190337827

 Qty.
 1 pc(s).

Tools, Sheathing strippers

Version

Blank





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Sheathing stripper for PVC cables

TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are various different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Preattachment of sleeves and retrofitting of tags offer excellent versatility

The special contour of TM-I allows easy assembly and secures firm positioning. They are compatible with a number of commercially available sleeves. Thanks to the MultiCard format, the tags can be printed quickly and conveniently with the PrintJet CONNECT, plotter or the STI pen.

- Easy handling of separation and installation thanks to the project marker field.
- Acknowledged and accredited marker for traffic engineering applications
- Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
- Not suited for labelling with P-Ink or STI pen in connection with CLI T sleeves

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

 Type
 TM-I
 18 MC NE WS

 Order No.
 1718431044

 GTIN (EAN)
 4008190349011

 Qty.
 320 pc(s).

TM-I, Insert markers, 18 x 4 mm, white

Creation date January 20, 2022 6:04:01 PM CET

Version



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Accessories

Туре	TM-I 18 MC NE GE	Version
Order No.	<u>1718431687</u>	TM-I, Insert markers, 18 x 4 mm, yellow
GTIN (EAN)	4008190349028	
Qty.	320 pc(s).	

Cutting tools



Cutting tools for conductors up to 8 mm, 12 mm, 14 mm and 22 mm outside diameter. The special blade geometry allows pinch-free cutting of copper and aluminium conductors with minimum physical effort. The cutting tools also come with VDE and GS-tested protective insulation up to 1,000 V in accordance with EN/IEC 60900.

General ordering data

KT 8	Version
<u>9002650000</u>	Cutting tools, Cutting tool for one-hand operation
4008190020163	
1 pc(s).	
	<u>9002650000</u> 4008190020163

Mouser Electronics

Authorized Distributor

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Weidmuller: <u>1108870150</u>