

## M12 male 0° A-cod. / MSUD valve plug A-18mm

PVC 3x0.75 bk 5m

Art.No.: 7000-40881-6160500

Weight: 0.322 Country of origin: CZ

Model designation: MSKL3-A-W616\_5.0

Form A (18 mm) - M12, male straight

24 V AC ±20% / DC ±25% LED and suppression

Bridged PE A-coded

Further cable lengths on request.

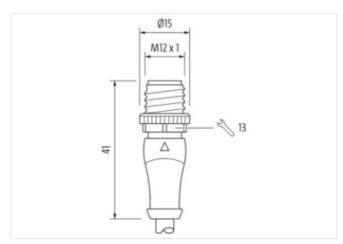
Plastic housings with good resistance against chemicals and oils.

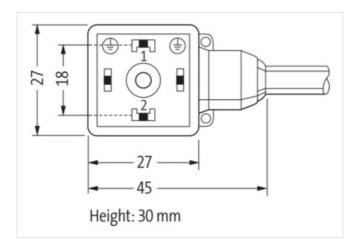
The resistance to aggressive media should be individually tested for your application. Further details on request.

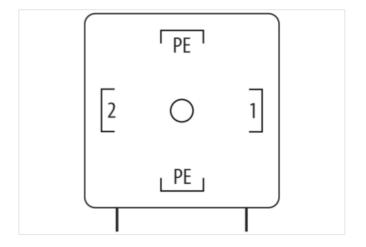
## **Link to Product**

## Illustration



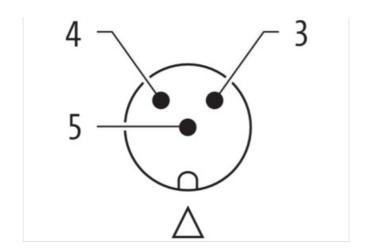


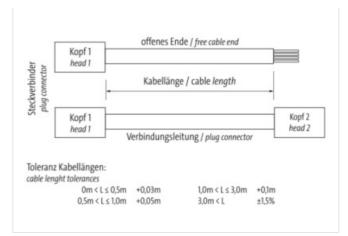


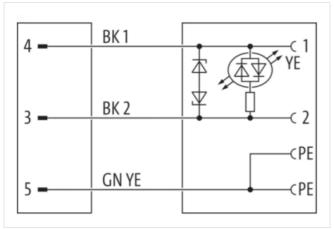


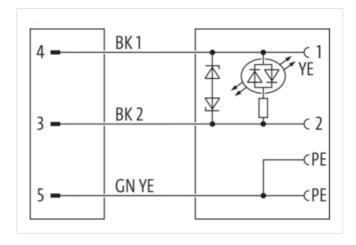


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Product may differ from Image







Header	
Material short text	MSKL3-A-W616_5.0
Cable length	5.0 m
Side 1	
Family construction form	M12
No. of poles	3
Coding	A
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
suitable for corrugated tube (internal $\emptyset$ )	10 mm
Material	PUR
Degree of protection (EN IEC 60529)	IP67
Side 2	
Family construction form	MSUD A
No. of poles	4
Thread	M3



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Dogoe of protection (EN IEC 60529)         IP87           Commercial data         Intps://intop.murrelelstronik.com/7000-40881-6160500           GTIN         4048879152211           ECLASS 6.0         27279218           ECLASS 6.1         27279218           ECLASS 7.0         27279218           ECLASS 7.1         27279218           ECLASS 8.0         27279218           ECLASS 8.1         27060312           ECLASS 8.1         27060312           ECLASS 8.1.1         27060312           ECLASS 9.1.1         27060312           ECLASS 9.1.1         27060312           ECLASS 9.1.1         27060312           ECLASS 9.1.2         27060312           ECLASS 9.1.3         27060312           ECLASS 9.1.0         27060312           ECLAS 9.1.0         27060312           ECLAS 9.1.0         27060312           ECLAS 9.1.0 <t< th=""><th>Tightening torque</th><th>0.4 Nm</th></t<>	Tightening torque	0.4 Nm
### Commercial data ### URL Webshop	Material	PBT
URL Webshop https://shop.murrelektronik.com/7000-40881-6180500 OTIN 4048879152211 EGLASS 6.0 27279218 EGLASS 6.1 27279218 EGLASS 7.0 27279218 EGLASS 7.1 27279218 EGLASS 7.1 27279218 EGLASS 7.0 27279218 EGLASS 7.1 27279218 EGLASS 8.0 2779218 EGLASS 8.0 2779218 EGLASS 8.0 2779218 EGLASS 8.0 27080312 EGLASS 9.0 27080312 EGLASS	Degree of protection (EN IEC 60529)	IP67
GTIN	Commercial data	
GTIN	URL Webshop	https://shop.murrelektronik.com/7000-40881-6160500
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ETIM-5.0 EC001855 ETIM-6.0 EC001855 ETIM-7.0 EC001855 ETIM-8.0 EC001855 ETIM-8.0 EC001855  ETIM-8.0 EC001855  customs tariff number 85444290  EAN 4048879152211  Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC max. 288 V  Operating voltage AC max. 288 V  Operating voltage DC min. 192 V  Operating voltage DC min. 18 V  Operating voltage DC max. 30 V  Current operating per contact max. 4 A  Cut-off peak voltage max. 55 V  Current consumption max. 15 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor 2. Diode  Rated surge voltage woltage (IEC 60664-1) I  Mechanical data   Meterial data	ECLASS-13.0	27060312
ETIM-6.0 EC001855 ETIM-7.0 EC001855 ETIM-8.0 EC001855 ETIM-8.0 EC001855 EXTM-8.0 EC001855 EXAM 4048879152211 Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 192 V  Operating voltage AC max. 288 V  Operating voltage AC max. 288 V  Operating voltage DC in. 18 V  Operating voltage DC max. 30 V  Current operating per contact max. 4 A  Cut-off peak voltage max. 55 V  Current consumption max. 15 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional suppressor 2-Diode  Rated surge voltage Max IP Methanical data  Material group (IEC 60664-1) I  Mechanical data   Meterial data	ECLASS-14.0	27060312
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ETIM-8.0 EC001855 customs tariff number 85444290 EAN 4048679152211 Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 192 V  Operating voltage AC max. 288 V  Operating voltage AC 24 V  Operating voltage DC max. 18 V  Operating voltage DC max. 280 V  Operating voltage DC max. 30 V  Current operating per contact max. 4 A  Current perating per contact max. 55 V  Current consumption max. 15 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I	ETIM-6.0	EC001855
EAN 404879152211 Packaging unit 1  Electrical data Drop-out delay time max. 20 ms  Electrical data   Supply Operating voltage AC 24 V Operating voltage AC max. 288 V Operating voltage AC max. 288 V Operating voltage AC min. 192 V Operating voltage AC min. 18 V Operating voltage DC 24 V Operating voltage DC min. 18 V Operating voltage DC min. 15 W Operating voltage DC min. 15 W Operating voltage DC min. 16 V Operating voltage DC min. 17 W Operating voltage DC min. 18 V Operating voltage DC min. 19 V Operating voltage Min. 19 V Operati	ETIM-7.0	EC001855
EAN 4048879152211 Packaging unit 1  Electrical data Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V Operating voltage AC min. 192 V Operating voltage AC min. 288 V Operating voltage AC min. 180 V Operating voltage DC min. 18 V Operating voltage DC min. 18 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Current operating per contact max. 4 A Cut-off peak voltage max. 55 V Current consumption max. 15 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed  Pollution Degree 3 Additional suppressor Z-Diode Rated surge voltage  0.8 kV Material group (IEC 60664-1) I  Mechanical data   Material data	ETIM-8.0	EC001855
Packaging unit         1           Electrical data         20 ms           Electrical data   Supply         Proporting voltage AC           Operating voltage AC min.         192 V           Operating voltage AC max.         288 V           Operating voltage DC max.         288 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Cut-off peak voltage max.         55 V           Current consumption max.         15 mA           Diagnostics         Status indication LED           Pevice protection   Electrical         Pegree of protection (EN IEC 60529)           IP67         Additional condition protection degree           Pollution Degree         3           Additional suppressor         Z-Diode           Rated surge voltage         0.8 kV           Material group (IEC 60664-1)         I           Mechanical data   Material data	customs tariff number	
Electrical data Drop-out delay time max. 20 ms  Electrical data   Supply Operating voltage AC 24 V Operating voltage AC max. 288 V Operating voltage AC max. 288 V Operating voltage DC 24 V Operating voltage DC min. 18 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Current operating per contact max. 4 A Current operating per contact max. 4 A Cut-off peak voltage max. 55 V Current consumption max. 15 mA  Diagnostics Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Additional suppressor 2-Diode Rated surge voltage Material data  Mechanical data   Material data		
Electrical data   Supply  Operating voltage AC 24 V Operating voltage AC min. 192 V Operating voltage AC max. 288 V Operating voltage DC 24 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Current operating per contact max. 4 A Current operating per contact max. 15 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed  Pollution Degree 3 Additional suppressor Z-Diode Rated surge voltage Material data	Packaging unit	1
Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 192 V  Operating voltage AC max. 288 V  Operating voltage DC 24 V  Operating voltage DC inin. 18 V  Operating voltage DC min. 18 V  Operating voltage DC max. 30 V  Current operating per contact max. 4 A  Cut-off peak voltage max. 55 V  Current consumption max. 15 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.3 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Electrical data	
Operating voltage AC 24 V Operating voltage AC min. 192 V Operating voltage AC max. 288 V Operating voltage DC 24 V Operating voltage DC ini. 18 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Current operating per contact max. 4 A Cut-off peak voltage max. 55 V Current consumption max. 15 mA  Diagnostics Status indication LED yellow  Device protection   Electrical Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Additional suppressor Z-Diode Rated surge voltage material data  Mechanical data   Material data	Drop-out delay time max.	20 ms
Operating voltage AC min.  Operating voltage AC max.  Deparating voltage DC  24 V  Operating voltage DC min.  18 V  Operating voltage DC max.  Operating voltage DC max.  Operating voltage DC max.  Operating per contact max.  4 A  Cut-off peak voltage max.  55 V  Current consumption max.  15 mA  Diagnostics  Status indication LED  Pevice protection   Electrical  Degree of protection   Electrical  Degree of protection degree inserted, screwed  Pollution Degree  3  Additional suppressor  Rated surge voltage  0.8 kV  Material group (IEC 60664-1)  I  Mechanical data   Material data	Electrical data   Supply	
Operating voltage AC min. 192 V Operating voltage AC max. 288 V Operating voltage DC 24 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Current operating per contact max. 4 A Cut-off peak voltage max. 55 V Current consumption max. 15 mA  Diagnostics Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Additional suppressor Z-Diode Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Operating voltage AC	24 V
Operating voltage DC 24 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Current operating per contact max. 4 A Cut-off peak voltage max. 55 V Current consumption max. 15 mA  Diagnostics Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed  Pollution Degree 3 Additional suppressor Z-Diode Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Operating voltage AC min.	192 V
Operating voltage DC 24 V Operating voltage DC min. 18 V Operating voltage DC max. 30 V Current operating per contact max. 4 A Cut-off peak voltage max. 55 V Current consumption max. 15 mA  Diagnostics Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed  Pollution Degree 3 Additional suppressor Z-Diode Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Operating voltage AC max.	288 V
Operating voltage DC max.  Current operating per contact max.  55 V  Current consumption max.  15 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree  3 Additional suppressor  Rated surge voltage  0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Operating voltage DC	24 V
Current operating per contact max. 4 A  Cut-off peak voltage max. 55 V  Current consumption max. 15 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Operating voltage DC min.	18 V
Cut-off peak voltage max. 55 V Current consumption max. 15 mA  Diagnostics Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Operating voltage DC max.	30 V
Current consumption max. 15 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Current operating per contact max.	4 A
Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Cut-off peak voltage max.	55 V
Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Current consumption max.	15 mA
Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data	Diagnostics	
Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data		yellow
Degree of protection (EN IEC 60529)  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional suppressor Z-Diode  Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data		
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Additional suppressor Z-Diode Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data		
Rated surge voltage 0.8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data		
Material group (IEC 60664-1)  Mechanical data   Material data		
Mechanical data   Material data		
	Material group (IEC 60664-1)	<u> </u>
Material housing Plastic	Mechanical data   Material data	
	Material housing	Plastic



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Color housing	black
Locking material	Zinc die-casting
Coating locking	Nickeled
Material gasket	PUR
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
	-25 °C
Operating temperature min.  Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
	depending on cable quality
Important installation notes	
Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Conformity	
Product standard	DIN EN 61076-2-101 (M12), DIN EN 175301-803
Installation   Cable	
Cable identification	616
Cable Type	1
Amount stranding	1
Stranding	3 wires stranded
Wire arrangement	black 1, black 2, green-yellow
Cable weigth	61.6 g/m
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1.8 mm
Outer diameter tolerance core insulation	± 0.1 mm
Shore hardness wire insulation	43 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	CFC-free, cadmium-free, silicone-free, lead-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	24
Diameter of single wires	0.2 mm
Conductor crosssection (wire)	0.75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Outer-diameter (jacket)	5.9 mm
Tolerance outer diameter (sheath)	±5%
Material jacket	PVC
Shore hardness jacket	80 ± 5 Shore A
Freedom from ingredients (jacket)	CFC-free, cadmium-free, silicone-free, lead-free
Material property (jacket)	good machinability
Conductor resistance (wire)	26 Ω/km @ 20 °C
Max. rated voltage (conductor - ground)	300 V
Max. rated voltage (conductor - conductor)	500 V
Withstand voltage (wire - wire)	3 kV @ 60 s
Withstand voltage (wire - jacket)	3 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)  Operating temperature min. (dynamic)	70 °C
	-5 ℃



Operating temperature max. (dynamic)	70 °C
Oil resistance	good
Chemical resistance	good
Other resistances	good resistance to gasoline
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter