

## M12 male 90° A-cod. / MSUD valve plug A-18mm

PVC 3x0.75 bk 1.5m

Form A (18 mm) – M12, male 90° 24 V AC ±20% / DC ±25% LED and suppression Bridged PE

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

Further cable lengths on request.

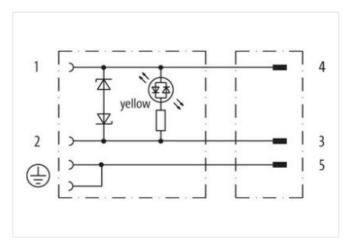
Plastic housings with good resistance against chemicals and oils.

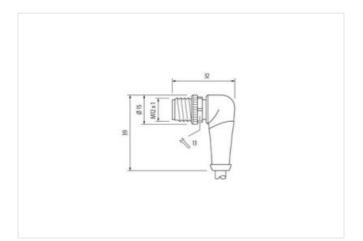
The resistance to aggressive media should be individually tested for your application. Further details on request.

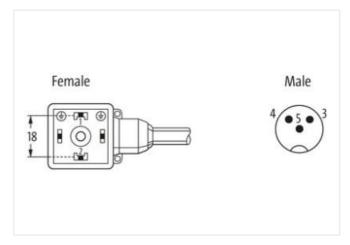
## **Link to Product**

## Illustration



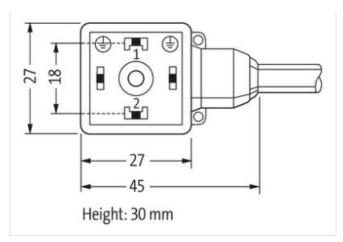








stay connected



Product may differ from Image









Cable length	1,5 m
Side 1	
Tightening torque	0,6 Nm
Family construction form	MSUD
Thread	M12 x 1
Material	PUR
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,4 Nm
Family construction form	M12
Thread	M3
suitable for corrugated tube (internal Ø)	10 mm
Material	PBT
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879151184
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	
Operating voltage AC	24 V



	40.01/
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	15 mA
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	T. Control of the con
Additional suppressor	Diode, Z-Diode
Mechanical data   Material data	
Coating locking	Nickeled
Color housing	black
Material gasket	PUR
Material housing	Plastic
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature min.  Operating temperature max.	-25 °C 85 °C
Operating temperature max.	
Operating temperature max.  Additional condition temperature range	85 °C
Operating temperature max.  Additional condition temperature range  Important installation notes	85 °C depending on cable quality
Operating temperature max.  Additional condition temperature range	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Operating temperature max.  Additional condition temperature range  Important installation notes	85 °C depending on cable quality
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1 white (isolation black)
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1 white (isolation black)
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1  3 wires twisted
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black) black 1  3 wires twisted black 2, green-yellow
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1  3 wires twisted  black 1, black 2, green-yellow  61,6 g/m
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket	85 °C  depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1  3 wires twisted  black 1, black 2, green-yellow  61,6 g/m  PVC
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket	depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1  3 wires twisted  black 1, black 2, green-yellow  61,6 g/m  PVC  80 ± 5 Shore A
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1  3 wires twisted  black 1, black 2, green-yellow  61,6 g/m  PVC  80 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)	depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1  3 wires twisted  black 1, black 2, green-yellow  61,6 g/m  PVC  80 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5,9 mm
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)	depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1  3 wires twisted  black 1, black 2, green-yellow  61,6 g/m  PVC  80 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5,9 mm  ± 5 %
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation	depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1  3 wires twisted  black 1, black 2, green-yellow  61,6 g/m  PVC  80 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5,9 mm  ± 5 %  PVC
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires	85 °C  depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black)  black  1  3 wires twisted  black 1, black 2, green-yellow  61,6 g/m  PVC  80 ± 5 Shore A  lead-free, cadmium-free, CFC-free, silicone-free  5,9 mm  ± 5 %  PVC  3
Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Installation   Cable  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation	85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  616  1  white (isolation black) black  1  3 wires twisted black 1, black 2, green-yellow 61,6 g/m  PVC 80 ± 5 Shore A lead-free, cadmium-free, CFC-free, silicone-free 5,9 mm ± 5 %  PVC 3  1,8 mm



Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-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
Max. rated voltage (conductor - conductor)	500 V
Max. rated voltage (conductor - ground)	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	3 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	3 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °C
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter