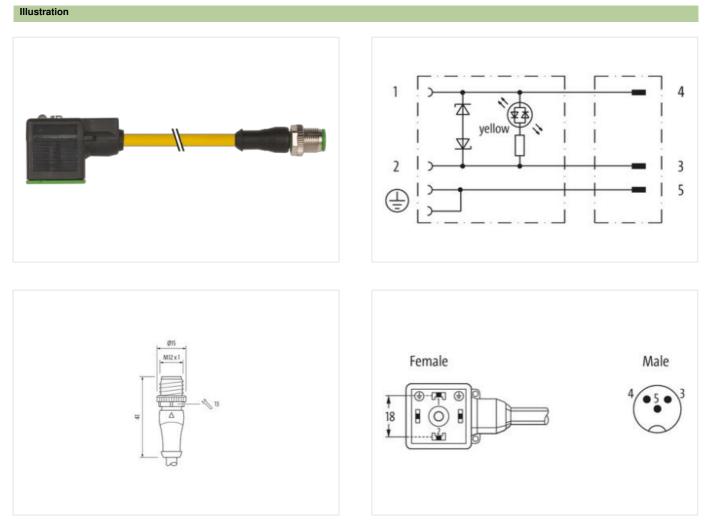


## M12 male 0° A-cod. / MSUD valve plug A-18mm

PVC 3x0.75 ye 2.5m

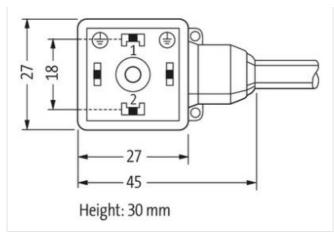
Form A (18 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Bridged PE A-coded Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



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Product may differ from Image



Cable length	2,5 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	M12
Thread	M3
suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,6 Nm
Thread	M12 x 1
Material	PBT
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	4048879152990
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	
Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V

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Operating voltage DC	24 V
	24 V 18 V
Operating voltage DC min.	
Operating voltage DC max.	30 V 55 V
Cut-off peak voltage max.	
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)	l
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	
· · · · ·	inserted, screwed
Mounting method	
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. <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	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on strain relief Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on strain relief Note on bending radius Installation   Cable	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on strain relief Note on bending radius Installation   Cable Cable identification Cable Type	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1
Note on strain relief Note on bending radius Installation   Cable Cable identification	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on strain relief   Note on bending radius   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)
Note on strain relief   Note on bending radius   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow
Note on strain relief   Note on bending radius   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Amount stranding	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1
Note on strain relief   Note on bending radius   Installation   Cable   Cable identification   Cable Type   Printing color of wire insulation   Jacket Color   Amount stranding   Stranding	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted
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	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow
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	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m
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	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC
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	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A
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)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free
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)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm
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)	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm   ± 5 %
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	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm   ± 5 %   PVC
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	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm   ± 5 %   PVC   3
Note on strain relief   Note on bending radius   Installation   Cable   Cable identification   Cable Iype   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	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm   ± 5 %   PVC   3   1,8 mm
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   Outer diameter tolerance core insulation	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm   ± 5 %   PVC   3   1,8 mm   ± 5 %
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 tolerance core insulation   Shore hardness wire insulation	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm   ± 5 %   PVC   3   +5 %   43 ± 5 Shore D
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 tolerance core insulation   Shore hardness wire insulation   Material properties wire insulation	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   016   1   white (isolation black)   yellow   1   3 wires twisted   black 1, black 2, green-yellow   63,8 g/m   PVC   80 ± 5 Shore A   lead-free, cadmium-free, CFC-free, silicone-free   5,9 mm   ± 5 %   PVC   3   1,8 mm   ± 5 %   43 ± 5 Shore D   good machinability

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Amount strands (wire)	24
Diameter of single wires	0,2 mm
Conductor crosssection (wire)	0,75 mm²
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
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   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

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