

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

PVC 3x0.75 ye 0.15m

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

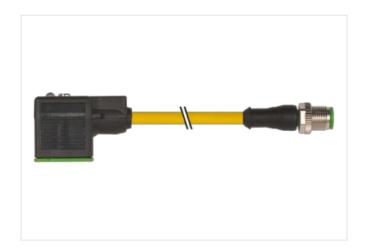
Further cable lengths on request.

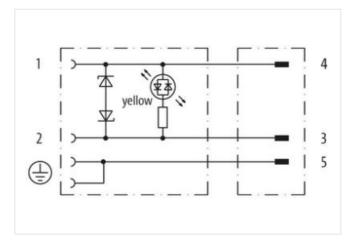
Plastic housings with good resistance against chemicals and oils.

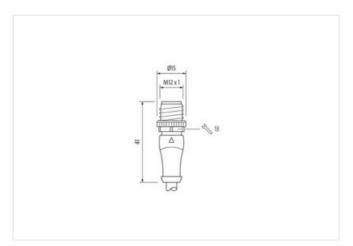
The resistance to aggressive media should be individually tested for your application. Further details on request.

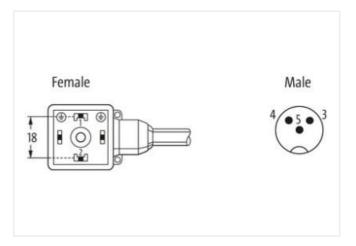
## **Link to Product**

## Illustration



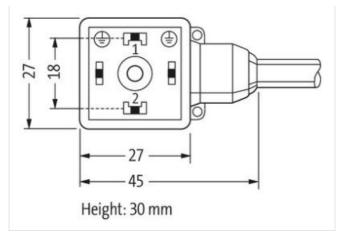








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Product may differ from Image







Side 1       Tightening torque     0,4 Nm       Family construction form     M12       Thread     M3       suitable for corrugated tube (internal Ø)     10 mm	
Family construction form M12 Thread M3	
Thread M3	
suitable for corrugated tube (internal Ø) 10 mm	
salable for corrugated tabe (internal b)	
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 4048879619288	
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
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)	
Mechanical data   Material data	
·	Nickolad
Color housing	Nickeled
Color housing  Material gooket	black PUR
Material gasket  Material housing	Plastic
Locking material	Zinc die-casting
	Zino die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Installation   Cable	
Installation   Cable Cable identification	016
•	016 1
Cable identification	
Cable identification Cable Type	1
Cable identification  Cable Type  Printing color of wire insulation	1 white (isolation black)
Cable identification  Cable Type  Printing color of wire insulation  Jacket Color	1 white (isolation black) yellow
Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding	1 white (isolation black) yellow 1
Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding	1 white (isolation black) yellow 1 3 wires twisted
Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement	1 white (isolation black) yellow 1 3 wires twisted black 1, black 2, green-yellow
Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth	1 white (isolation black) yellow 1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m
Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket	1 white (isolation black)  yellow  1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC
Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket	1 white (isolation black) yellow 1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC 80 ± 5 Shore A
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)	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
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)	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
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	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 %
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	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
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	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
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	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
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	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
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  Shore hardness wire insulation	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
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  Shore hardness wire insulation  Material properties wire insulation	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
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  Shore hardness wire insulation  Material properties wire insulation  Ingredient freeness wire insulation	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  lead-free, cadmium-free, CFC-free, silicone-free
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  Ingredient freeness wire insulation  Printing color of wire insulation  Amount strands (wire)  Diameter of single wires	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 lead-free, cadmium-free, CFC-free, silicone-free white (isolation black)
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  Shore hardness wire insulation  Material properties wire insulation  Ingredient freeness wire insulation  Printing color of wire insulation  Amount strands (wire)	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 lead-free, cadmium-free, CFC-free, silicone-free white (isolation black) 24
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  Ingredient freeness wire insulation  Printing color of wire insulation  Amount strands (wire)  Diameter of single wires	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 lead-free, cadmium-free, CFC-free, silicone-free white (isolation black) 24 0,2 mm

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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
Max. rated voltage power (conductor - ground)	300 V
Max. rated voltage power (conductor - conductor)	500 V
Power frequency withstand voltage power (wire - jacket)	3 kV @ 60 s
AC withstand voltage power (wire - wire)	3 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-5 ℃
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