

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

PVC 3x0.75 ye 2m

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

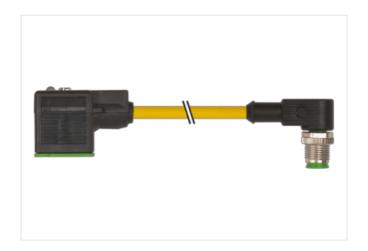
Further cable lengths on request.

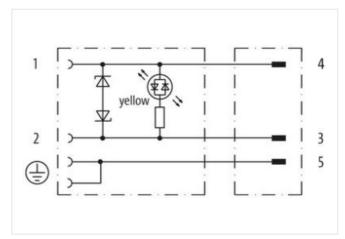
Plastic housings with good resistance against chemicals and oils.

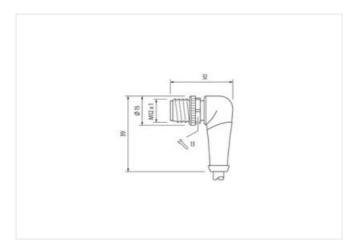
The resistance to aggressive media should be individually tested for your application. Further details on request.

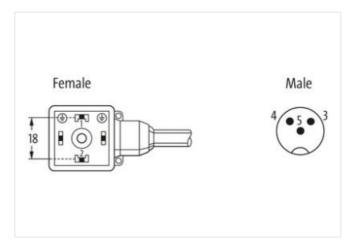
Link to Product

Illustration











stay connected



Product may differ from Image









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 Family construction form M12 Thread M3 suitable for corrupated tube (internal Ø) 10 mm Material PBT Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Commercial data ECLASS-6.0 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-10.1 4048879151474 Packaging unit 1 Electrical data Drop- out delay time max. 20 ms Electrical data Supply Operating voltage AC 24 V	Cable length	2 m
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 date ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-9.0 27060311 ECLASS-9.0 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ETIM-5.0 E001855 customs tariff number 85444290 GTIN 4048879151474 Packaging unit 1 Electrical data Supply	Side 1	
Thread M12 x 1 Material PUR	Tightening torque	0,6 Nm
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-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 2729218 ECLASS-9.0 27060311 ECLASS-9.0 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 ECM355 Sustained for unity and production for unity and produc	Family construction form	MSUD
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 0) 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 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 8544290 GTIN 4048879151474 Packaging unit 1 Electrical data Supply	Thread	M12 x 1
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 ECOM855 customs tariff number 85444290 GTIN 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply	Material	PUR
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-9.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.0 27060312 ETIM-5.0 27060312 ETIM-5.0 27060312 ETIM-5.0 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply	Degree of protection (EN IEC 60529)	IP67
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 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply	Side 2	
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-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLAS	Tightening torque	0,4 Nm
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-9.0.1 27060312 ECLASS-10.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879151474 Packaging unit 1 Electrical data Supply	Family construction form	M12
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-9.1.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply		M3
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-9.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879151474 Packaging unit 1 Electrical data Supply	suitable for corrugated tube (internal \emptyset)	
Degree of protection (EN IEC 60529) IP67	Material	PBT
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 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply		
ECLASS-6.0 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 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply	Degree of protection (EN IEC 60529)	IP67
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 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply	Commercial data	
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 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply	ECLASS-6.0	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 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply	ECLASS-7.0	27279218
ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply		27279218
ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply	ECLASS-9.0	27060311
ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply		
ETIM-5.0		27060312
Customs tariff number 85444290 GTIN 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply		
GTIN 4048879151474 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply		
Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply	customs tariff number	85444290
Electrical data Drop-out delay time max. 20 ms Electrical data Supply		4048879151474
Drop-out delay time max. 20 ms Electrical data Supply	Packaging unit	1
Electrical data Supply	Electrical data	
	Drop-out delay time max.	20 ms
Operating voltage AC 24 V	Electrical data Supply	
	Operating voltage AC	24 V



stay connected

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)	I
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	<u> </u>
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
	asponency on easily quanty
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation Cable	
wire arrangement	black 1, black 2, green-yellow
Cable identification	016
Cable Type	1
Printing color of wire insulation	white (isolation black)
Jacket Color	yellow
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	63,8 g/m
Material jacket	PVC
Shore hardness jacket	80 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	5,9 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,8 mm
Outer diameter insulation	1,0 11111



Shore hardness wire insulation	43 ± 5 Shore D
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 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