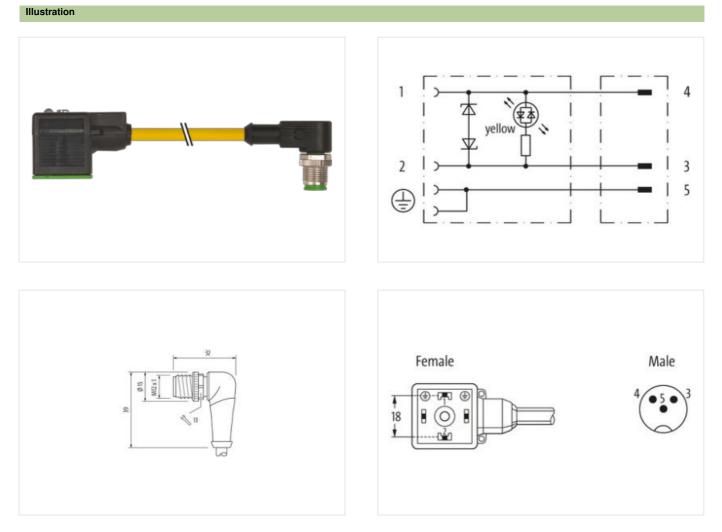


## M12 male 90° A-cod. / MSUD valve plug A-18mm

PUR 3x0.75 ye UL/CSA 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



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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         0.6 Nm           Family construction form         MSUD           Thread         M12 x 1           Material         PUR           Degree of protection (EN IEC 60529)         IP67           Sile 2         Tightening torque         0.4 Nm           Family construction form         M12         Material           Tightening torque         0.4 Nm         Material           Family construction form         M12         Material           Thread         M3         Material           Width across flats         SW13         Material           Degree of protection (EN IEC 60529)         IP67         Material           Commercial data         SW13         Material           ECLASS-6.0         27279218         Material           ECLASS-6.0         27279218         Material           ECLASS-10.1         27060312         Material           ECLASS-11.1         27060312         Material           ECLASS-12.0         27060312         Material           ECLASS-11.1         27060312         Material           ECLASS-12.0         ECO01855         Material           Material         Material         Material         Material	Cable length	1,5 m
Family construction form         MSUD           Thread         M12 x 1           Material         PUR           Degree of protection (EN IEC 60529)         IP67           Side 2	Side 1	
Thread         M12 x 1           Material         PUR           Degree of protection (EN IEC 60529)         IP67           Side 2	Tightening torque	0,6 Nm
Material         PUR           Degree of protection (EN IEC 60529)         IP67           Side 2	Family construction form	MSUD
Degree of protection (EN IEC 60529)         IP67           Side 2	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           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ECIASS-1.2.0         27060312           ETIM-5.0         ECO01855           customs tarliff number         85444290           GTIN         4048879151436           Packaging unit         1           Electrical data         Supply           Drop-out delay time max.         20 ms           Electrical data   Supply         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         27279218           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27260311           ECLASS-7.0         27060312           ECLASS-1.1         27060312           ECLASS-1.2.0         27060312           ETIM-5.0         ECO01855           customs tariff number         85444290           GTIN         4048879151436           Packaging unit         1           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           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-10.1         27060311           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879151436           Packaging unit         1           Electrical data         Electrical data           Drop-out delay time max.         20 ms           Electrical data   Supply         20 ms	Side 2	
ThreadM3suitable for corrugated tube (internal Ø)10 mmMaterialPBTWidth across flatsSW13Degree of protection (EN IEC 60529)IP67Commercial dataECLASS 6.027279218ECLASS 7.027279218ECLASS 8.027279218ECLASS 9.027060311ECLASS 10.127060312ECLASS 11.127060312ECLASS 12.027060312ETIM-5.0EC001855customs tariff number85444290GTIN4048879151436Packaging unit1Electrical dataSumElectrical dataSumElectrical dataSumElectrical dataSumElectrical dataSumElectrical dataSumElectrical data   SupplySum	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           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         27080312           ECLASS-12.0         27080312           ETIM-5.0         EC001855           custs tariff number         85444290           GTIN         4048879151436           Packaging unit         1           Electrical data         S00 ms           Electrical data         S00 ms	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-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           custs tariff number         85444290           GTIN         4048879151436           Packaging unit         1           Electrical data         S0 ms           Electrical data   Supply         20 ms	Thread	M3
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial data         IP67           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         4048379151436           Packaging unit         1           Electrical data         Supply	suitable for corrugated tube (internal $\emptyset$ )	10 mm
Degree of protection (EN IEC 60529)         IP67           Commercial data         ECLASS-6.0         27279218           ECLASS-7.0         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         ECO1855         ECO1855           customs tariff number         85444290         GTN         4048879151436           Packaging unit         1         Etectrical data         SUP of max.           Drop-out delay time max.         20 ms         Etectrical data   Supply	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         4048879151436           Packaging unit         1           Electrical data         Supply	Width across flats	SW13
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         EC01855           customs tariff number         85444290           GTIN         4048879151436           Packaging unit         1           Electrical data         20 ms           Electrical data   Supply         20 ms	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       4048879151436         Packaging unit       1         Electrical data       20 ms         Electrical data   Supply       20 ms	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       4048879151436         Packaging unit       1         Electrical data       20 ms         Electrical data   Supply       20 ms	ECLASS-6.0	27279218
ECLASS-9.0       27060311         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         coustoms tariff number       85444290         GTIN       4048879151436         Packaging unit       1         Electrical data       20 ms	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       4048879151436         Packaging unit       1         Electrical data       20 ms         Electrical data   Supply       20 ms	ECLASS-8.0	27279218
ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879151436         Packaging unit       1         Electrical data       20 ms         Electrical data   Supply       20 ms	ECLASS-9.0	27060311
ECLASS-12.027060312ETIM-5.0EC001855customs tariff number8544290GTIN4048879151436Packaging unit1Electrical dataDrop-out delay time max.20 msElectrical data   Supply	ECLASS-10.1	27060312
ETIM-5.0EC001855customs tariff number85444290GTIN4048879151436Packaging unit1Electrical data20 msElectrical data   Supply20 ms	ECLASS-11.1	27060312
customs tariff number     85444290       GTIN     4048879151436       Packaging unit     1       Electrical data     20 ms       Electrical data   Supply     1	ECLASS-12.0	27060312
GTIN     4048879151436       Packaging unit     1       Electrical data     20 ms       Electrical data   Supply     50 ms	ETIM-5.0	EC001855
Packaging unit     1       Electrical data     20 ms       Electrical data   Supply     20 ms	customs tariff number	85444290
Electrical data         Drop-out delay time max.       20 ms         Electrical data   Supply	GTIN	4048879151436
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
Derating voltage AC 24 V	Electrical data   Supply	
	Operating voltage AC	24 V

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	19,2 V
Operating voltage AC min.	
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)	
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	
	-25 °C
Operating temperature min. Operating temperature max.	-25 °C
Additional condition temperature range	depending on cable quality
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	026
Cable Type	2
Printing color of wire insulation	white (isolation black)
Jacket Color	yellow
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	55 g/m
Material jacket	PUR
Shore hardness jacket	85 ± 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 inner jacket	PVC
Color (inner jacket)	yellow
Material wire insulation	PVC

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Amount wires	3
Outer diameter insulation	1,8 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	43 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	9,6 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	0° 08
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	0° 08
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404
Bending radius (fixed)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C

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