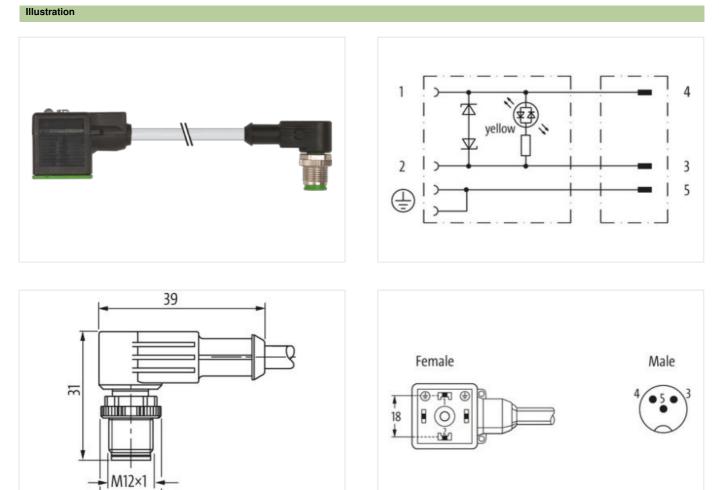


M12 male 90° A-cod. / MSUD valve plug A-18mm

PUR 3x0.75 gy UL/CSA+robot+drag ch. 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

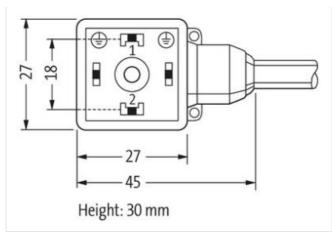


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Product may differ from Image



* only for products with UL/CSA approved cable

Technical Data Operating voltage 24 V AC ±20% / DC ±25% Rated surge voltage 0.8 kV Operating current per contact max. 4 A Current consumption approx. 15 mA Material group IEC 60664-1, category 1 Switch off peak max. 55 V LED display yellow Locking of ports M3M12×1 mm (recommended torque 0.4/0.6 Nm) Protection IP67 inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking of ports MSUD (PBT); M12 (PUR) Locking metrial Zinc dice casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data Zince Cable identification 256 Cable identification 256 Cable identification 256 Cable identification 256 Cable weight [g/m] 48,4	Form	
Operating voltage 24 V AC ±20% / DC ±25% Rated surge voltage 0.8 kV Operating current per contact max. 4 A Current consumption approx. 15 mA Material group IEC 60664-1, category I Switch off peak max. 55 V LED display yellow Locking of ports M3/M12×1 mm (recommended torque 0.4/0.6 Nm) Protection IP67 inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking of ports M3/M12×1 mm (recommended torque 0.4/0.6 Nm) Protection IP67 inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking material Zinc dic easting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General dat Material (gaskt) PUR Pollution Degree 3 Temperature range 25.6	Form	40901
Pated surge voltage 0.8 kV Operating current per contact max. 4 A Current consumption approx. 15 mA Material group IEC 60664.1, category I Switch off peak max. 55 V LED display yellow Locking of ports M3/M12.1 mm (recommended torque 0.4/0.6 Nm) Protection IP67 Inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking of ports M3/M12.1 mm (recommended torque 0.4/0.6 Nm) Protection IP67 Inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking material Zinc die casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plasite (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data Pollution Degree 3 Temperature range -25+85 °C, depending on cable quality Cable Yee Cable type 5 (PUR schweik/fun	Technical Data	
Operating current per contact max. 4 A Current consumption approx. 15 mA Material group IEC 606641, category I Switch off peak max. 55 V ED display yellow Locking of ports M3/M12×1 mm (recommended torque 0.4/0.6 Nm) Protection IP67 inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking material Zinc die casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/2-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data PUR Pollution Degree 3 Temperature range -25+85 °C, depending on cable quality Cable identification 256 Cable identification<	Operating voltage	24 V AC ±20% / DC ±25%
Current Consumption approx. 15 mA Material group IEC 60664-1, category 1 Switch off peak max. 55 V LED display yellow Lacking of ports M3/M12×1 nm (recommended torque 0.4/0.6 Nm) Protection IP67 inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking material Zinc die casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/2-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data -25+85 °C, depending on cable quality Cables -25+85 °C, depending on cable quality Cable identification 256 Cable wight	Rated surge voltage	0.8 kV
Material group IEC 60664-1, category I Switch off peak max. 55 V LED display yellow Locking of ports M3/M12×1 mm (recommended torque 0.4/0.6 Nm) Protection IP67 inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking material Zinc die casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/2-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data PUR Pollution Degree 3 Temperature range -25+85 °C, depending on cable quality Cable dettification 256 Cable identification 256 Cable identification 256 Cable of core) cultre, bare Resistor (core) max. 26 Q/km (20 °C) Single wire Ø (core) 0.15 mm Cable wire Ø (core) 0.15 mm (muti-strand wire class 6)	Operating current per contact	max. 4 A
Switch off peak max. 55 V LED display yellow Locking of ports M3/M12×1 mm (recommended torque 0.4/0.6 Nm) Protection IP67 inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking material Zinc die casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data	Current consumption	approx. 15 mA
LED display yellow Locking of ports M3/M12×1 mm (recommended torque 0.4/0.6 Nm) Protection IP67 inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking material Zinc die casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data VIR Pollution Degree 3 Temperature range -25+85 °C, depending on cable quality Cables Cable identification Cable identification 256 Cable identification 256 Cable solution (grim) 48.4 g Approval (cable) CHRus (AWM-Style 20549/10493); CE conform Cable weight [g/m] 48.4 g Resistor (core) max. 20 °C) Single wire Ø (core) 0.15 mm Construction (core) 42× 0.15 mm (multi-strand wire class 6)	Material group	IEC 60664-1, category I
Locking of portsM3/M12×1 mm (recommended torque 0.4/0.6 Nm)ProtectionIP67 inserted and tightened (EN 60529)MaterialMSUD (PBT); M12 (PUR)Locking materialZinc die casting, matte nickel platedsuitable for corrugated tube (internal Ø)10 mmHousingBlack plastic (gray on request)Additional suppressorDiode/Z-DiodeCompression glandM12 (SW13)Switch off delay timemax. 20 msGeneral dataMaterial (gasket)PURPollution Degree3Temperature range-25+85 °C, depending on cable qualityCable identification256Cable identification256Cable vight (g/m)48,4 gMaterial (gark)CURus (AWM-Style 20549/10493); CE conformCable wight (g/m)48,4 gMaterial (wire)Cu wire, bareResistor (core)0.15 mmConstruction (core)42× 0.15 mm (multi-strand wire class 6)	Switch off peak	max. 55 V
Protection IP67 inserted and tightened (EN 60529) Material MSUD (PBT); M12 (PUR) Locking material Zinc die casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data	LED display	yellow
Material MSUD (PBT); M12 (PUR) Locking material Zinc die casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General dat	Locking of ports	M3/M12×1 mm (recommended torque 0.4/0.6 Nm)
Locking material Zinc die casting, matte nickel plated suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data Material (gasket) PUR POIR Pollution Degree 3 Temperature range -25+85 °C, depending on cable quality Cables Cable identification Cable identification 256 Cable weight [g/m] 48,4 g Material (wire) Cu wire, bare Resistor (core) max. 26 Ω/km (20 °C) Single wire Ø (core) 0.15 mm Construction (core) 42× 0.15 mm (multi-strand wire class 6)	Protection	IP67 inserted and tightened (EN 60529)
suitable for corrugated tube (internal Ø) 10 mm Housing Black plastic (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data Material (gasket) PUR PUR Pollution Degree 3 Temperature range -25+85 °C, depending on cable quality Cables Cable identification Cable identification 256 Cable weight [g/m] 48,4 g Material (wire) Cu wire, bare Resistor (core) max. 26 Ω/km (20 °C) Single wire Ø (core) 0.15 mm Construction (core) 42× 0.15 mm (multi-strand wire class 6)	Material	MSUD (PBT); M12 (PUR)
Housing Black plastic (gray on request) Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data PUR Pollution Degree 3 Temperature range -25+85 °C, depending on cable quality Cables Cable identification Cable identification 256 Cable vight [g/m] 48.4 g Material (wire) Cu wire, bare Resistor (core) 0.15 mm Construction (core) 42× 0.15 mm (multi-strand wire class 6)	Locking material	Zinc die casting, matte nickel plated
Additional suppressor Diode/Z-Diode Compression gland M12 (SW13) Switch off delay time max. 20 ms General data PUR Pollution Degree 3 Temperature range -25+85 °C, depending on cable quality Cables Cables Cable identification 256 Cable Vuppe 5 (PUR schweißfunkenbeständig) Approval (cable) cURus (AWM-Style 20549/10493); CE conform Cable weight [g/m] 48.4 g Material (wire) Cu wire, bare Resistor (core) max. 26 Ω/km (20 °C) Single wire Ø (core) 0.15 mm Construction (core) 42× 0.15 mm (multi-strand wire class 6)	suitable for corrugated tube (internal Ø)	10 mm
Compression glandM12 (SW13)Switch off delay timemax. 20 msGeneral dataPURMaterial (gasket)PURPollution Degree3Temperature range-25+85 °C, depending on cable qualityCablesCable identification256Cable Type5 (PUR schweißfunkenbeständig)Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mmConstruction (core)42× 0.15 mm (multi-strand wire class 6)	Housing	Black plastic (gray on request)
Switch off delay timemax. 20 msGeneral dataPURMaterial (gasket)PURPollution Degree3Temperature range-25+85 °C, depending on cable qualityCablesCablesCable identification256Cable Type5 (PUR schweißfunkenbeständig)Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mm (multi-strand wire class 6)	Additional suppressor	Diode/Z-Diode
General dataMaterial (gasket)PURPollution Degree3Temperature range-25+85 °C, depending on cable qualityCables256Cable identification256Cable I Type5 (PUR schweißfunkenbeständig)Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mm (multi-strand wire class 6)	Compression gland	M12 (SW13)
Material (gasket)PURPollution Degree3Temperature range-25+85 °C, depending on cable qualityCables256Cable identification256Cable Type5 (PUR schweißfunkenbeständig)Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)nax. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mm (multi-strand wire class 6)	Switch off delay time	max. 20 ms
Pollution Degree3Temperature range-25+85 °C, depending on cable qualityCablesCable identification256Cable Type5 (PUR schweißfunkenbeständig)Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mm (multi-strand wire class 6)	General data	
Temperature range-25+85 °C, depending on cable qualityCablesCable identification256Cable Type5 (PUR schweißfunkenbeständig)Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mmConstruction (core)42× 0.15 mm (multi-strand wire class 6)	Material (gasket)	PUR
CablesCable identification256Cable Type5 (PUR schweißfunkenbeständig)Cable Type5 (PUR schweißfunkenbeständig)Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mmConstruction (core)42× 0.15 mm (multi-strand wire class 6)	Pollution Degree	3
Cable identification256Cable Type5 (PUR schweißfunkenbeständig)Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mmConstruction (core)42× 0.15 mm (multi-strand wire class 6)	Temperature range	-25+85 °C, depending on cable quality
Cable Type5 (PUR schweißfunkenbeständig)Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mmConstruction (core)42× 0.15 mm (multi-strand wire class 6)	Cables	
Approval (cable)cURus (AWM-Style 20549/10493); CE conformCable weight [g/m]48,4 gMaterial (wire)Cu wire, bareResistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mmConstruction (core)42× 0.15 mm (multi-strand wire class 6)	Cable identification	256
Cable weight [g/m] 48,4 g Material (wire) Cu wire, bare Resistor (core) max. 26 Ω/km (20 °C) Single wire Ø (core) 0.15 mm Construction (core) 42× 0.15 mm (multi-strand wire class 6)	Cable Type	5 (PUR schweißfunkenbeständig)
Material (wire) Cu wire, bare Resistor (core) max. 26 Ω/km (20 °C) Single wire Ø (core) 0.15 mm Construction (core) 42× 0.15 mm (multi-strand wire class 6)	Approval (cable)	cURus (AWM-Style 20549/10493); CE conform
Resistor (core)max. 26 Ω/km (20 °C)Single wire Ø (core)0.15 mmConstruction (core)42× 0.15 mm (multi-strand wire class 6)	Cable weight [g/m]	48,4 g
Single wire Ø (core) 0.15 mm Construction (core) 42× 0.15 mm (multi-strand wire class 6)	Material (wire)	Cu wire, bare
Construction (core) 42× 0.15 mm (multi-strand wire class 6)	Resistor (core)	max. 26 Ω/km (20 °C)
	Single wire Ø (core)	0.15 mm
Diameter (core) 3× 0.75 mm²	Construction (core)	42× 0.15 mm (multi-strand wire class 6)
	Diameter (core)	3× 0.75 mm ²

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AWG	similar to AWG 18
Material (wire isolation)	PP
Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
Shore hardness (wire isolation)	74 ±3 D
Wire-Ø incl. isolation	1.7 mm ±5%
Color/numbering of wires	bk numbered, gnye longitudinally striped
Stranding combination	3 wires twisted
Shield	no
Material (jacket)	PUR
Material property (jacket)	CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion- resistant, hydrolysis-, microbial- and welding spark resistant
Shore hardness (jacket)	58 ±3 D
Outer-Ø (jacket)	5.2 mm ±5%
Color (jacket)	gray
chemical resistance	good resistance to oil, gasoline and chemicals (EN 60811-404)
thermal resistance	flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant
Nominal voltage	300 V AC
Test voltage	2500 V AC
Current load capacity	to DIN VDE 0298-4
Temperature range (fixed)	-40+80 °C, (+90 °C at max. 10 000 operating hours)
Temperature range (mobile)	-25+80 °C, (+90 °C at max. 10 000 operating hours)
Bend radius (fixed)	5× outer Ø
Bend radius (moving)	10× outer Ø
No. of bending cycles (C-track)	max. 10 Mio. (25 °C)
Travel speed (C-track)	max. 3.3 m/s
Acceleration (C-track)	max. 5 m/s ²
Torsion stress	±360°/m
No. of torsion cycles	max. 1 Mio. (25 °C)
Torsion speed	35 cycles/min
Product article number of manufacturer	7000-40901-2560200
Cable length	2 m

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