

M12 male 0° A-cod. / MSUD valve plug CI-9.4mm

PVC 3x0.75 gy 5m

Art.No.: 7000-41041-2160500

Weight: 0.316 kg Country of origin: CZ

Model designation: MSRL3-A-W216 5.0

MSUD

Form CI (9.4 mm) - M12, male straight

24 V AC ±20% / DC ±25% LED and suppression

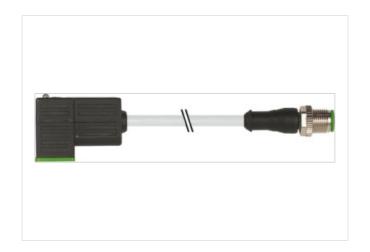
Further cable lengths on request.

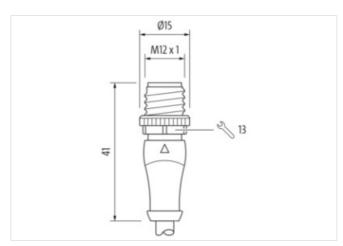
Plastic housings with good resistance against chemicals and oils.

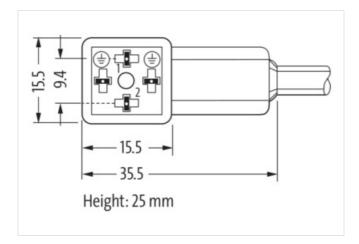
The resistance to aggressive media should be individually tested for your application. Further details on request.

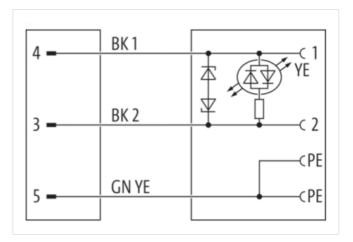
Link to Product

Illustration



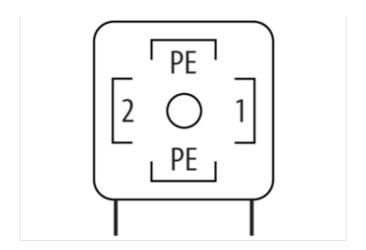


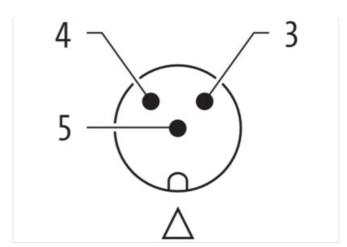


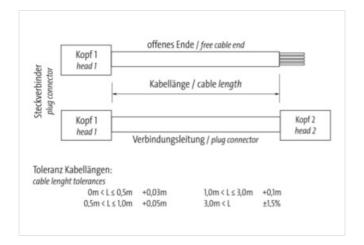




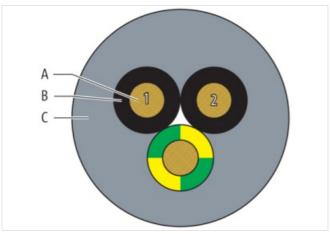
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Product may differ from Image







Header

Material short text MSRL3-A-W216_5.0

Cable length 5,00 m

Side 1



Coding A Mounting method pluggable, screwed Trimeaded hole M12 x 1 Tightening torque 0,4 km Width across flats SW13 suitable for corrupated tube (internal O) 10 mm Material PUR Material contact Copper alloy Coaling contact gold plated Degree of protection (EN IEC 60529) IP67 Side 2 STEAM Family construction form Valve connector form CI No. of poles 3 Mounting method inserted, screwed Trightening torque 0,6 km suitable for corrupated tube (internal O) 10 mm Material PBT Degree of protection (EN IEC 60529) IP67 Commercial data PBT URL Webshop https://shop.murrelektronik.com/7000-41041-2160500 GTIN 4048879882060 ECILASS-6.0 27279218 ECILASS-7.0 27279218 ECILASS-8.1 27279218 ECILASS-9.0 27279218 <	Family construction form	M12
Mounting method plugable, screwed Tripited for longue M12 x 1 Worth across fals SW13 suitable for corrugated fulse (internal Q) 10 mm Material PUR Material contact Coperally Coating contact gold plated Begree of protection (EN IEC 60529) PE7 Side 2 Family construction form Valve connector form Cl No. of police 3 3 Mounting method inserted, sorewed Threaded hole M3-31 Tightening forque 0.8 Mm Suitable for corrugated fubic (inferral Q) 10 mm Material Degree of protection (EN IEC 60529) PE7 PE7 Commercial data PB7 PB7 Commercial data	No. of poles	4
Treated hole	Coding	A
Tightening torque	Mounting method	pluggable, screwed
Width across filats SW13 wattable for corugated tube (internal Or) TO mm Material contract Coppor alloy Coating contact Gopper alloy Coating contact Gopper alloy Coating contact Gopper alloy Coating contact God pleade Brown Select Side 2 Select Family construction form Valve connector form CI No. of poles 3 Mounting method inserted, screwed Treated hole MS331 Topteming torque 0,6 Nm suitable for corrugated tube (internal O) 10 mm Material PBT Degree of protection (FN IEC 69529) PBT Commercial date URL URL Weekshop Intersistance number leave to make through com/round-1041-2160500 GTIN 40468799802000 ECLASS-6.0 227279218 ECLASS-7.1 227279218 ECLASS-7.2 227279218 ECLASS-9.0 22729218 ECLASS-9.0 22729218	Threaded hole	M12 x 1
suitable for corrugated tube (internal 6) 10 mm Material PUR Material contact Copper alloy Coaling contact gold plated Degree of protection (EN IEC 60529) IP67 Side 2 Family construction form Valve connector form CI No. of poles 3 Mounting method inserted, screwed Threaded hole M3.31 Tightening torque 0.6 Nm suitable for corrugated fube (internal 6) IP7 Commercial data IP7 URL Webshop https://shop.murrelektrorik.com/7000-41041-2160500 GTIN 40488/95682060 ECLASS-6.0 27279218 ECLASS-7.1 27279218 ECLASS-7.2 27279218 ECLASS-8.1 27279218 ECLASS-8.2 27279218 ECLASS-9.1 27279218 ECLASS-9.2 27279218 ECLASS-9.3 27279218 ECLASS-9.4 27279218 ECLASS-9.5 27060312 ECLASS-9.0 27279218 EC	Tightening torque	0,4 Nm
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Coating contact gold plated Degree of protection (EN IEC 60529) IF67 Side 2 Family construction form Valve connector form CI No. of poles 3 Mounting method inserted, screwed Threaded hole M5x31 Tightening torque 0.6 Nm suitable for corrugated tube (internal 0) 10 mm Material PBT Degree of protection (EN IEC 60829) PBT 7 Commercial data UPR. Webshop https://subp.murrelektronik.com/7004-41041-2160500 GTIN 4048879882060 CECLASS-6.0 27279218 ECLASS-6.1 27279218 CECLASS-7.0 27279218 ECLASS-7.0 27279218 CECLASS-7.1 27279218 ECLASS-8.0 27279218 CECLASS-8.0 27279218 ECLASS-9.1 27279218 CECLASS-9.1 27279218 ECLASS-9.0 27060312 CECLASS-9.1 27060312 ECLASS-9.1 27060312 CECLASS-10.1 27060312 ECLASS-10.1 27060312 CECLASS-11.0 27060312	Material	PUR
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suitable for corrugated tube (internal Ø) 10 mm Material PBT Degree of protection (EN IEC 60529) P67 Commercial data URL Webshop https://shop.murrelektronik.com/7000-41041-2160500 GTIN 4048879882060 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-7.1 27279218 ECLASS-8.0 27279218 ECLASS-8.1 27279218 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-11.0 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-13.0 27060312 ECLASS-14.0 27060312 ECLASS-14.0 27060312 ECLASS-14.0 27060312 ECLASS-14.0 EC001855 ETIM-5.0 EC001855 ETIM-7.0 EC001855 ETIM-8.0 EC001855 ETIM-8.0 EC001855	Threaded hole	M3x31
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ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-13.0 27060312 ECLASS-14.0 27060312 ETIM-5.0 EC001855 ETIM-6.0 EC001855 ETIM-7.0 EC001855 customs tariff number 85444290 EAN 4048879682060 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply Supplemental Supply Operating voltage AC min. 19,2 V	ECLASS-10.1	27060312
ECLASS-12.0 27060312 ECLASS-13.0 27060312 ECLASS-14.0 27060312 ETIM-5.0 EC001855 ETIM-6.0 EC001855 ETIM-7.0 EC001855 ETIM-8.0 EC001855 customs tariff number 85444290 EAN 4048879682060 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V		
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ECLASS-14.0 27060312 ETIM-5.0 EC001855 ETIM-6.0 EC001855 ETIM-7.0 EC001855 ETIM-8.0 EC001855 customs tariff number 85444290 EAN 4048879682060 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V		
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ETIM-8.0 EC001855 customs tariff number 85444290 EAN 4048879682060 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V		
customs tariff number 85444290 EAN 4048879682060 Packaging unit 1 Electrical data 20 ms Electrical data Supply V Operating voltage AC 24 V Operating voltage AC min. 19,2 V		
EAN 4048879682060 Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V		
Packaging unit 1 Electrical data Drop-out delay time max. 20 ms Electrical data Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V		
Electrical data Drop-out delay time max. 20 ms Electrical data Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V		4048879682060
Drop-out delay time max. 20 ms Electrical data Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V	Packaging unit	1
Electrical data Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V	Electrical data	
Operating voltage AC 24 V Operating voltage AC min. 19,2 V	Drop-out delay time max.	20 ms
Operating voltage AC min. 19,2 V	Electrical data Supply	
Operating voltage AC max. 28,8 V		
	Operating voltage AC max.	28,8 V



stay connected

Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Cut-off peak voltage max.	55 V
· · ·	33 V
Diagnostics	
Status indication LED	yellow
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Additional suppressor	LED, Z-Diode
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Mechanical data Material data	
Material housing	Plastic
Color housing	black
Environmental characteristics Climatic	
	05.00
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
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.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Conformity	
Product standard	EN IEC 61076-2-101 (M12), EN 175301-803 (valve plug)
Installation Cable	
	216
Installation Cable Cable identification	
Installation Cable	216
Installation Cable Cable identification Cable Type	216 1
Installation Cable Cable identification Cable Type Amount stranding Stranding	216 1 1 3 wires stranded
Installation Cable Cable identification Cable Type Amount stranding	216 1
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth	216 1 1 3 wires stranded 58 g/m
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth Material wire insulation	216 1 1 3 wires stranded 58 g/m PVC
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth Material wire insulation Amount wires	216 1 1 3 wires stranded 58 g/m PVC
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth Material wire insulation Amount wires Outer diameter insulation	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Material properties wire insulation	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth 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	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth 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	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black)
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth 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)	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black)
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth 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) Diameter of single wires	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black) 24 0,2 mm
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth 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) Diameter of single wires Conductor crosssection (wire)	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black) 24 0,2 mm 0,75 mm²
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Printing color of wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire	216 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black) 24 0,2 mm 0,75 mm² Stranded copper wire, bare
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth 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) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire)	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black) 24 0,2 mm 0,75 mm² Stranded copper wire, bare Strand class 5
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth 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) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Outer-diameter (jacket)	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black) 24 0,2 mm 0,75 mm² Stranded copper wire, bare Strand class 5 5,9 mm
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth 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) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Outer-diameter (jacket) Tolerance outer diameter (sheath)	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black) 24 0,2 mm 0,75 mm² Stranded copper wire, bare Strand class 5 5,9 mm ± 5 %
Installation Cable Cable identification Cable Type Amount stranding Stranding Cable weigth 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) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material jacket	216 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black) 24 0,2 mm 0,75 mm² Stranded copper wire, bare Strand class 5 5,9 mm ± 5 % PVC
Cable identification Cable Type Amount stranding Stranding Cable weigth Material wire insulation Amount wires Outer diameter insulation Shore hardness wire insulation Ingredient freeness wire insulation Printing color of wire insulation Printing color of wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material jacket Shore hardness jacket	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black) 24 0,2 mm 0,75 mm² Stranded copper wire, bare Strand class 5 5,9 mm ± 5 % PVC 80 ± 5 Shore A
Cable identification Cable Type Amount stranding Stranding Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Printing color of wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material jacket Shore hardness jacket Freedom from ingredients (jacket)	216 1 1 3 wires stranded 58 g/m PVC 3 1,8 mm ± 0,1 mm 43 ± 5 Shore D good machinability CFC-free, cadmium-free, silicone-free, lead-free white (isolation black) 24 0,2 mm 0,75 mm² Stranded copper wire, bare Strand class 5 5,9 mm ± 5 % PVC 80 ± 5 Shore A CFC-free, cadmium-free, silicone-free, lead-free

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-12-21



Max. rated voltage (conductor - ground)	300 V
Max. rated voltage (conductor - conductor)	500 V
Withstand voltage (wire - wire)	3 kV @ 60 s
Withstand voltage (wire - jacket)	3 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Operating temperature min. (static)	-30 °C
Operating temperature max. (static)	70 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °C
Oil resistance	good
Chemical resistance	good
Other resistances	good resistance to gasoline
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter