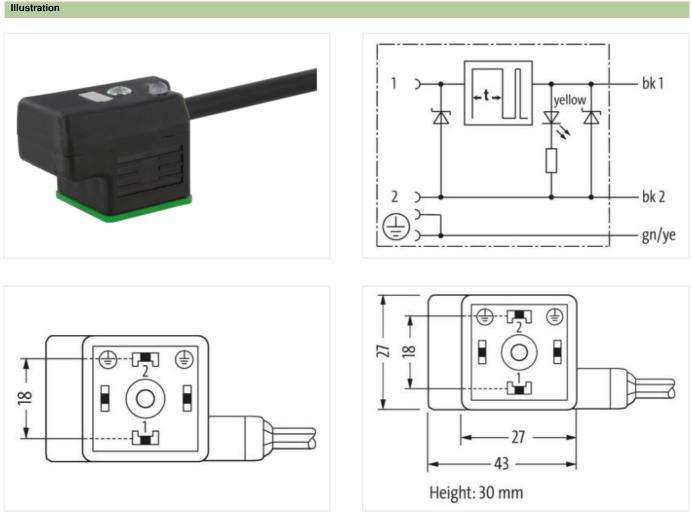


## MSUD valve plug A-18mm with cable

PUR 3x0.75 bk UL/CSA+drag ch. 7.5m

MSUD Form A (18 mm) 21.6...26.4 V DĆ LED (yellow) Power reducer (40%) 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



Product may differ from Image



Cable length

7,5 m

## Side 1

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: 2024-06-26

Murrelektronik GmbH | Falkenstraße 3 | 71570 Oppenweiler | Fon +49 (71 91) 47-0 | Fax +49 (71 91) 47-491000 | shop@murrelektronik.de | shop.murrelektronik.de



Mounting method     inserted, screwed       Family construction form     MSUD A       Thread     M3       Material     PBT       Degree of protection (EN IEC 60529)     IP66K, IP67       Commercial data     ECLASS-6.0       ECLASS-6.0     27210990       ECLASS-7.0     27210990       ECLASS-8.0     27210990       ECLASS-9.0     27210990       ECLASS-1.1     27060312       ECLASS-1.1     27060312       ECLASS-1.1     27060312       ECLASS-1.1     27060312       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879553780       Packaging unit     1       Electrical data   Supply     Power frequency       Operating voltage DC min.     21.6 V       Operating voltage DC max.     26.4 V       Current operating per contact max.     5 A       Installation   Connection     M3       Device protection   Electrical     Additional condition protection degree       Installation   Connection     Steel       Mechanical data   Material data     Color housing       Color hou	
Family construction form       MSUD A         Thread       M3         Material       PBT         Degree of protection (EN IEC 60529)       IP66K, IP67         Commercial data       ECLASS-6.0         ECLASS-6.0       27210990         ECLASS-7.0       27210990         ECLASS-11.1       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879553780         Packaging unit       1         Electrical data   Supply         Power frequency       300 500 Hz         Operating voltage DC rin.       21.6 V         Operating vo	
ThreadM3MaterialPBTDegree of protection (EN IEC 60529)IP66K, IP67Commercial dataEECLASS-6.027210990ECLASS-7.027210990ECLASS-8.027210990ECLASS-9.027210990ECLASS-9.027210990ECLASS-11.127060312ECLASS-12.027060312ECLASS-12.027060312ETIM-5.0EC001855customs tarlff number85444290GTIN4048879553780Packaging unit1Electrical data   SupplyPower frequency300 500 HzOperating voltage DC min.21,6 VOperating voltage DC min.21,6 VOperating voltage DC max.5 AInstallation   ConnectionM3Mounting setM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMechanical data   Material dataCoating of fittingverzinktColor housingblackMaterial housingPlasticMuterial screw connectionSteelMechanical data   Mounting dataMounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature min25 °COperating temperature min25 °COperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality </td <td></td>	
Degree of protection (EN IEC 60529)IP66K, IP67Commercial dataIP66K, IP67ECLASS-6.027210990ECLASS-7.027210990ECLASS-8.027210990ECLASS-9.027210990ECLASS-11.127060312ECLASS-12.027060312ECLASS-12.027060312ETIM-5.0EC001855customs tariff number85444290GTIN4048879553780Packaging unit1Electrical data   SupplyPower frequency300 500 HzOperating voltage DC min.21,6 VOperating voltage DC max.26,4 VCurrent operating per contact max.5 AInstallation   ConnectionMasMounting setM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMaterial data   Material dataCoating of fittingCoating of fittingVerzinktColor housingblackMaterial screw connectionSteelMechanical data   Mounting dataMounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature min25 °COperating temperature min25 °COperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	
Commercial data         ECLASS-6.0       27210990         ECLASS-7.0       27210990         ECLASS-8.0       27210990         ECLASS-9.0       27210990         ECLASS-9.0       27210990         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048379553780         Packaging unit       1         Electrical data   Supply         Power frequency       300 500 Hz         Operating voltage DC min.       21.6 V         Operating voltage DC max.       26.4 V         Current operating per contact max.       5 A         Installation   Connection       Ma         Mounting set       M3         Device protection   Electrical       Additional condition protection degree         Additional condition protection degree       inserted, screwed         Mechanical data   Material data       Color housing         Dack       Material screw connection         Steel       Mechanical dat	
ECLASS-6.027210990ECLASS-7.027210990ECLASS-8.027210990ECLASS-9.027210990ECLASS-10.127060312ECLASS-11.127060312ECLASS-12.027060312ECLASS-12.027060312ECLASS-13.0EC001855customs tariff number85444290GTIN404879553780Packaging unit1Electrical data   SupplyPower frequency300 500 HzOperating voltage DC min.21.6 VOperating voltage DC max.26.4 VCurrent operating per contact max.5 AInstallation   ConnectionMounting setM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMechanical data   Material dataColor housingblackMaterial housingPlasticMounting methodinserted, screwedMechanical data   Mounting dataMounting methodinserted, screwedMechanical data   Mounting dataMounting methodinserted, screwedAdditional condition temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	
ECLASS-7.027210990ECLASS-8.027210990ECLASS-9.027210990ECLASS-10.127060312ECLASS-11.127060312ECLASS-12.027060312ETIM-5.0EC01855customs tariff number85444290GTIN4048879553780Packaging unit1Electrical data   SupplyPower frequency300 500 HzOperating voltage DC min.21.6 VOperating voltage DC max.26.4 VCurrent operating per contact max.5 AInstallation   ConnectionM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMaterial housingPlasticMaterial screw connectionSteelMechanical data   Munting dataMounting methodinserted, screwedEctaring temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	
ECLASS-7.027210990ECLASS-8.027210990ECLASS-9.027210990ECLASS-10.127060312ECLASS-11.127060312ECLASS-12.027060312ETIM-5.0EC01855customs tariff number85444290GTIN4048879553780Packaging unit1Electrical data   SupplyPower frequency300 500 HzOperating voltage DC min.21.6 VOperating voltage DC max.26.4 VCurrent operating per contact max.5 AInstallation   ConnectionM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMaterial housingPlasticMaterial screw connectionSteelMechanical data   Munting dataMounting methodinserted, screwedEctaring temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	
ECLASS-8.027210990ECLASS-9.027210990ECLASS-10.127060312ECLASS-11.127060312ECLASS-12.027060312ETIM-5.0EC001855customs tariff number85444290GTIN4048879553780Packaging unit1Electrical data   SupplyPower frequency300 500 HzOperating voltage DC min.21,6 VOperating voltage DC max.26,4 VCurrent operating per contact max.5 AInstallation   ConnectionM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMaterial screw connectionSteelMaterial screw connectionSteelMechanical data   Mounting dataMounting methodMounting methodinserted, screwedEctor operating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	
ECLASS-10.127060312ECLASS-11.127060312ECLASS-12.027060312ETIM-5.0EC001855customs tariff number85444290GTIN4048879553780Packaging unit1Electrical data   SupplyPower frequency300 500 HzOperating voltage DC min.21.6 VOperating voltage DC max.26.4 VCurrent operating per contact max.5 AInstallation   ConnectionMounting setM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMaterial housingDiackMaterial housingPlasticMaterial screw connectionSteelMechanical data   Mounting dataMounting methodinserted, screwedExperimental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	
ECLASS-11.1     27060312       ECLASS-12.0     27060312       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879553780       Packaging unit     1       Electrical data   Supply     Power frequency       Power frequency     300 500 Hz       Operating voltage DC min.     21,6 V       Operating voltage DC max.     26,4 V       Current operating per contact max.     5 A       Installation   Connection     M3       Mounting set     M3       Device protection   Electrical       Additional condition protection degree     inserted, screwed       Mechanical data   Material data       Color housing     black       Material housing     Plastic       Material screw connection     Steel       Mechanical data   Mounting data     Mounting method       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	
ECLASS-12.0     27060312       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879553780       Packaging unit     1       Electrical data   Supply     Power frequency       Power frequency     300 500 Hz       Operating voltage DC min.     21,6 V       Operating voltage DC max.     26,4 V       Current operating per contact max.     5 A       Installation   Connection     M3       Mounting set     M3       Device protection   Electrical       Additional condition protection degree     inserted, screwed       Mechanical data   Material data     Color housing       Color housing     black       Material housing     Plastic       Mounting method     inserted, screwed       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       -25 °C     Operating temperature may.     85 °C       Additional condition temperature range     depending on cable quality	
ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879553780       Packaging unit     1       Electrical data   Supply     300 500 Hz       Power frequency     300 500 Hz       Operating voltage DC min.     21,6 V       Operating voltage DC max.     26,4 V       Current operating per contact max.     5 A       Installation   Connection     M3       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     inserted, screwed       Mechanical data   Material data     Color housing       Data     Delack       Material housing     Plastic       Material screw connection     Steel       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	
customs tariff number     85444290       GTIN     4048879553780       Packaging unit     1       Electrical data   Supply     300 500 Hz       Operating voltage DC min.     21,6 V       Operating voltage DC max.     26,4 V       Current operating per contact max.     5 A       Installation   Connection     M3       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     inserted, screwed       Mechanical data   Material data     Color housing       Data     Delack       Material housing     Plastic       Material screw connection     Steel       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	
GTIN4048879553780Packaging unit1Electrical data   SupplyPower frequency300 500 HzOperating voltage DC min.21,6 VOperating voltage DC max.26,4 VCurrent operating per contact max.5 AInstallation   ConnectionMounting setM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMechanical data   Material dataCoating of fittingverzinktColor housingblackMaterial screw connectionSteelMechanical data   Mounting dataMounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	
Packaging unit     1       Electrical data   Supply       Power frequency     300 500 Hz       Operating voltage DC min.     21,6 V       Operating voltage DC max.     26,4 V       Current operating per contact max.     5 A       Installation   Connection     M3       Device protection   Electrical     M3       Additional condition protection degree     inserted, screwed       Mechanical data   Material data     Coating of fitting       Color housing     black       Material housing     Plastic       Material screw connection     Steel       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       -25 °C     Operating temperature max.       85 °C     Additional condition temperature range	
Electrical data   Supply       Power frequency     300 500 Hz       Operating voltage DC min.     21,6 V       Operating voltage DC max.     26,4 V       Current operating per contact max.     5 A       Installation   Connection     M3       Mounting set     M3       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     inserted, screwed       Mechanical data   Material data     Cooling of fitting       Color housing     black       Material housing     Plastic       Material screw connection     Steel       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	
Power frequency300 500 HzOperating voltage DC min.21,6 VOperating voltage DC max.26,4 VCurrent operating per contact max.5 AInstallation   ConnectionM3Device protection   ElectricalM3Additional condition protection degreeinserted, screwedMechanical data   Material dataVerzinktColor housingblackMaterial housingPlasticMaterial screw connectionSteelMechanical data   Mounting dataMounting methodinserted, screwedMechanical data   Mounting dataMounting methodscrewed	
Operating voltage DC min.     21,6 V       Operating voltage DC max.     26,4 V       Current operating per contact max.     5 A       Installation   Connection     M3       Device protection   Electrical     M3       Additional condition protection degree     inserted, screwed       Mechanical data   Material data     Coating of fitting       Color housing     black       Material housing     Plastic       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       -25 °C     Operating temperature max.       Additional condition temperature range     depending on cable quality	
Operating voltage DC max.     26,4 V       Current operating per contact max.     5 A       Installation   Connection     Mounting set       Mounting set     M3       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     inserted, screwed       Mechanical data   Material data     Coating of fitting       Color housing     black       Material housing     Plastic       Material screw connection     Steel       Mechanical data   Mounting data     Mounting method       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	
Current operating per contact max.     5 A       Installation   Connection       Mounting set     M3       Device protection   Electrical       Additional condition protection degree     inserted, screwed       Mechanical data   Material data       Coating of fitting     verzinkt       Color housing     black       Material housing     Plastic       Material screw connection     Steel       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       -25 °C     Operating temperature max.       Additional condition temperature range     depending on cable quality	
Installation   ConnectionMounting setM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMechanical data   Material dataverzinktCoating of fittingverzinktColor housingblackMaterial housingPlasticMaterial screw connectionSteelMechanical data   Mounting datascrewedMounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	
Mounting setM3Device protection   ElectricalAdditional condition protection degreeinserted, screwedMechanical data   Material dataCoating of fittingverzinktColor housingblackMaterial housingPlasticMaterial screw connectionSteelMechanical data   Mounting dataMounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	
Device protection   Electrical       Additional condition protection degree     inserted, screwed       Mechanical data   Material data     Coating of fitting       Coating of fitting     verzinkt       Color housing     black       Material housing     Plastic       Material screw connection     Steel       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	
Additional condition protection degree     inserted, screwed       Mechanical data   Material data        Coating of fitting     verzinkt       Color housing     black       Material housing     Plastic       Material screw connection     Steel       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	
Mechanical data   Material data       Coating of fitting     verzinkt       Color housing     black       Material housing     Plastic       Material screw connection     Steel       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       -25 °C     Operating temperature max.       Additional condition temperature range     depending on cable quality	
Coating of fitting     verzinkt       Color housing     black       Material housing     Plastic       Material screw connection     Steel       Mechanical data   Mounting data     Mounting method       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	
Color housing   black     Material housing   Plastic     Material screw connection   Steel     Mechanical data   Mounting data   Mounting method     Mounting method   inserted, screwed     Environmental characteristics   Climatic   Operating temperature min.     -25 °C   Operating temperature max.     85 °C   Additional condition temperature range	
Material housing     Plastic       Material screw connection     Steel       Mechanical data   Mounting data     Inserted, screwed       Mounting method     inserted, screwed       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	
Material screw connection     Steel       Mechanical data   Mounting data     inserted, screwed       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	
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	
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	
Environmental characteristics   Climatic       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	
Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	
Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality	
Additional condition temperature range depending on cable quality	
Important installation notes	
important instantation notes	
Note on strain relief Protect the connectors by suitable measures from m	chanical loads, e.g. by the usage of cable ties.
Note on bending radius       Attention: Observe the permissible bending radii will endangered by excessive bending forces.	n laying cables, as the IP protection class can be
Installation   Cable	
wire arrangement black 1, black 2, green-yellow	
Cable identification 636	
Cable Type 3	
Printing color of wire insulation white (isolation black)	
Jacket Color black	
Type of Certificate cURus	
Amount stranding 1	
Stranding 3 wires twisted	

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: 2024-06-26

Murrelektronik GmbH | Falkenstraße 3 | 71570 Oppenweiler | Fon +49 (71 91) 47-0 | Fax +49 (71 91) 47-491000 | shop@murrelektronik.de | shop.murrelektronik.de



wire arrangement	black 1, black 2, green-yellow
Cable weigth	56,1 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	5,9 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1,85 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-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 mm <sup>2</sup>
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	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
UV resistance	DIN EN ISO 4892-2 A
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
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min

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: 2024-06-26

Murrelektronik GmbH | Falkenstraße 3 | 71570 Oppenweiler | Fon +49 (71 91) 47-0 | Fax +49 (71 91) 47-491000 | shop@murrelektronik.de | shop.murrelektronik.de