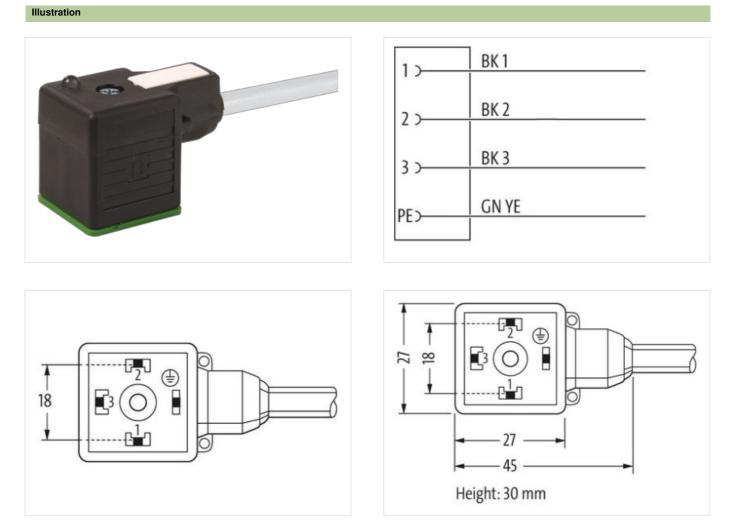


## MSUD valve plug A-18mm with cable

PUR 4x0.75 gy UL/CSA 10m

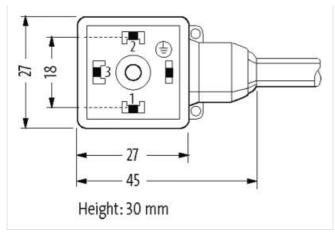
MSUD Form A (18 mm) 0...230 V AC/DC without components 4-pole PE at cable entry (180°) Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



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





Product may differ from Image



Cable length	10 m
Side 1	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	MSUD A
Thread	M3
Material	PBT
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	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
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879190916
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	230 V
Operating voltage DC max.	230 V
Current operating per contact max.	10 A
Installation   Connection	
Mounting set	М3
Device protection   Electrical	
Pollution Degree	3
Rated surge voltage	4 kV
Material group (IEC 60664-1)	

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



## Mechanical data | Material data

Coating of litting     verzinkt       Color housing     black       Material gasket     PUR       Locking material     Steel       Material gasket     Steel       Material strew connection     Steel       Mechanical data   Mounting data     Inserted, screwed       Environmental characteristics   Climatic     Comparing temperature max.       Operating temperature max.     85 °C       Additional condition temperature may.     85 °C       Additional condition temperature may.     85 °C       Note on stain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on stain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Installation (Cable     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation (Cable     227       Cable identification     227       Cable Color     gray       Type of Cartificate     cURus       Anount stranding     1       Stranding     4 wires twisted       wire arrangement     bla	Mechanical data   Material data	
Code Inspain     Back       Accessing material     Steel       Marinal score connection     Steel       Machinal data     Marinal score connection       Machinal data     Inserted, screwed       Environmential characteristics   Climatic     Opperating importanture min.       0.90 perating importanture min.     45 °C       Opperating importanture min.     45 °C       Mathematic Connection tomperature may.     85 °C       Machinal candition notes     Intention: Connection by soliable measures from machinal loads, o.g. by the usage of cable loss.       Note on berding radius     Attention: Charles the bending radiu sheen lay personal loads, o.g. by the usage of cable loss.       Installation   Cable     Velock 1, black 3, green-yellow       Cable loaderflattion     22 ?       Cable loaderflattion     22 ?       Printing coder of vire insulation     witil (socialion black)       Juade Color     gray       Type of Centricate     CURus       Cable weigh     74.8 gra       Maro	Coating locking	verzinkt
Material gasket     PUF       Looking material     Steel       Machanial screw connection     Steel       Machanial screw connection     Steel       Machanial core connection     Steel       Machanial screw connection     Steel       Environmental characteristics   Climatic     Operating temperature range     depending on cable quality       Matchinal confliction temperature range     depending on cable quality     Matchinal confliction temperature range       Note on bending radius     Attention: Cocorrow the pormissible bonding radii when keying cables, as the IP protection class can be arring radius     Attention: Cocorrow the pormissible bonding radii when keying cables, as the IP protection class can be arring radius       Installation   Cable     We screw bonding trocs.     Attention: Cocorrow the pormissible bonding radii when keying cables, as the IP protection class can be arring radius       Cable of prifticate     CDEU     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable isse.       Attention:     Cocorrow the pormissible bonding radii when keying cables, as the IP protection class can be arring radius when keying cables, as the IP protection class can be arring radius.       Installation   Cable     We arring radius     Attention: Cocorre are real radius read radius	Coating of fitting	verzinkt
Locking material     Steel       Material score connection     Steel       Material score connection     Steel       Mounting method     inserted, screwed       Environmenial characteristics [Climatic     Operating temperature max.     85 °C       Operating temperature max.     85 °C     Construction temperature max.     85 °C       Mounting method     Inserted, screwed     Environmenial characteristics [Climatic       Upperating temperature max.     85 °C     Construction temperature max.     85 °C       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Attention: Coserve the permissible bending radii when laying cables, as the IP protection class can be endowgeed by excessive bending forces.       Installation I Cable     were arrangement     black 1, black 2, black 3, green-yellow       Cable type     2     Colling (Goald on Goald On Goa	Color housing	black
Material screw connection     Steel       Mechanical data [ Mounting data Mounting method     inserted, screwed       Environmental characteristics   Climatic     25 °C       Operating temporature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation noise     1000000000000000000000000000000000000	Material gasket	PUR
Mechanical data   Mounting data       Mounting method     inserted, screwed       Environmental characteristics   Climatu     25 °C       Operating insprenature min.     25 °C       Operating insprenature min.     69 °C       Additional condition temperature max     69 °C       Important installation notes     Important installation notes       Important installation notes     Materian Coborne the prevature having cables, as the IP protection class can be and angered by accessive banding forces.       Installation (Cable     Materian: Coborne the prevative having cables, as the IP protection class can be and angered by accessive banding forces.       Installation (Cable     Vectors the connection by suitable measures from mechanical loads, e.g. by the uses cable fee.       Vectors and accessive banding forces.     Installation (Cable       Installation (Cable)     Vectors Charon sy suitable measures from mechanical loads, e.g. by the uses cable fee.       Cable diversition (Cable diversition	Locking material	Steel
Muning method     inserted, scrowed       Environmental characteristics (Climatic     28 ° C       Operating imperature max.     28 ° C       Operating imperature max.     45 ° C       Additional condition temperature range     depending on cable quality       Important installation notes     Frotest the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fees.       Nate on stain relief     Protest the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fees.       Installation (Cable     Attention: Costore the permissible bending ratel when laying cables, as the iP protection class can be active bending forces.       Clabel of ontification     227       Clabel of ontification     27       Clabel of ontification     27       Stronding     4 wires twisted       Operating imperature interview     1       Stronding     4 wires twisted       Stronding     4 wires twisted       Stronding     76.8 ° S hone A       Freedom from ingrealisting (Label)     16.4 ° S hone A       Colar or during indication     9 ° S       Outer daminer foldealth     16.9 ° S       Strone A     16.0 ° S       Stron	Material screw connection	Steel
Environmental characteristics   Climatic       Operating remperature max.     65 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Important installation notes       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.       Nate on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by soccessive bending trocks.       Installation [Cable     Vertex       Wrie arrangement     black 1, black 2, black 3, green yollow       Cable identification     227       Cable obterof     gray       Type of Cartificate     cuPRus       Native fication     gray       Type of Cartificate     cuPRus       Stranding     1       Stranding     4 virtes twisted       Wrie arrangement     black 1, black 3, green-yollow       Cable weigh     24 gr       Cable weigh     24 gr       Material insciptom     5 S Shore A       Freedom tom ingradiute     pellow       Material insciptom     PUC       Cable weigh     25	Mechanical data   Mounting data	
Operating temperature min.     -28 ° C       Operating temperature max.     85 ° C       Additional condition temperature range     depending on cable quality       Important installation none:     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.       Note on barding radius     Attention: Cheave the permissible banding radii when laying cables, e.g. by the usage of cable lies.       Installation (Cable     wearrangement     Back 1, black 2, black 3, green-yellow       Cable Type     2       Printing calor of wire installation     Weis (solation black)       Jacket Color     gray       Type of Corfficate     uPlack       Veis arrangement     Back Toback 3, green-yellow       Cable Type     2       Stranding     4 wires twisted       wire arrangement     Back 1, black 2, black 3, green-yellow       Cable weigh     74.8 g/m       Material jacket     PUR       Stranding     4 wires twisted       Wire arrangement     Back 1, black 2, black 3, green yellow       Cable weigh     7.6 S/m       Freedom from ingredents (jacket)     15 m       Date-dimeter (jacket)     9 No	Mounting method	inserted, screwed
Operating temperature max.     85 °C       Additional condition temperature maya     depending on cable quality       Important Installation notes     depending on cable quality       Important Installation notes     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation (Cable     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation (Cable     View arrangement     black 1, black 2, black 3, green-yellow       Cable identification     227     class cable       Type of Cartificate     cuPaus     cuPaus       Amount stranding     1     Stranding       Type of Cartificate     cuPaus     cuPaus       Cable weigh     74.8 g/m     Material jacket       Material jacket     PUR     cupaus       Stranding     1     stranding       Outer diameter (skeath)     1.5 %     cupaus       Material jacket     PUR     cupaus       Cable weigh     7 m     m       Toterance sucker diameter (s	Environmental characteristics   Climatic	
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 files.       Note on bending radius     Attention: Coceave the permissible bending radii when laying cables, as the IP protection class can be endangered by occessive bending forces.       Installation (Cable     Installation (Cable)       write arrangement     black 1, black 2, black 3, green-yellow       Cable forgo     2       Printing color of write insulation     writes (isolation black)       acker (Color     gray       Type of Certificate     cuFus       Annount stranding     1       Stranding     4 writes twisted       write arrangement     black 1, black 2, black 3, green-yellow       Cable weight     7.4.8 gr/m       Material jacket     PUR       Stranding     4 writes twisted       Write arrangement     black 1, black 2, black 3, green-yellow       Cable weight     7.4.8 gr/m       Material jacket     PUR       Stranding     9.4 writes twisted       Water adroter (soleabin)     1.5 %	Operating temperature min.	-25 °C
Important instaliation notes     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Aftention: Observ the pomiscible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     University of the pomiscible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     University of the pomiscible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Cable institution     227       Cable institution     227       Cable institution     white (isolation black)       Cable institution     white (isolation black)       Acaket Color     gray       Type of Cartificate     cUFus       Anount strangement     black 1, black 2, black 3, green-yellow       Cable weight     74.8 g /m       Material jacket     PUR       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingedients (jacket)     185 * 5       Outer diameter (isolation)     1 ± 5 *       Material jacket     PVC       Calor (inner jacket)     YeVC       Calor (inner jacket)	Operating temperature max.	85 °C
Important instaliation notes     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Aftention: Observ the pomiscible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     University of the pomiscible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Installation   Cable     University of the pomiscible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Cable institution     227       Cable institution     227       Cable institution     white (isolation black)       Cable institution     white (isolation black)       Acaket Color     gray       Type of Cartificate     cUFus       Anount strangement     black 1, black 2, black 3, green-yellow       Cable weight     74.8 g /m       Material jacket     PUR       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingedients (jacket)     185 * 5       Outer diameter (isolation)     1 ± 5 *       Material jacket     PVC       Calor (inner jacket)     YeVC       Calor (inner jacket)	Additional condition temperature range	depending on cable quality
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 radi when laying cables, as the IP protection class can be genderated by excessive bending forces.       Instilation (Cable     Understand     Understand     Disck 1, black 2, black 3, green-yellow       Cable identification     227     Call (Call		
Attention: Oserve the permissible bending radii when laying cables, as the IP protection dass can be endangered by excessive bending forces.       Installation [Cable       wire arrangement     black 1, black 2, black 3, green-yellow       Cable iodentification     227       Cable iodentification     227       Cable iodentification     227       Cable iodentification     white (isolation black)       Jacket Color     gray       Type of Certificate     cUFus       Annount stranding     1       Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable weigh     74.8 g/m       Material jasket     PUR       Shore hardmess pakel     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer -diameter (headh)     ± 6 %, for %       Material inner jacket     PVC       Calor (mer jacket)     yellow       Material inner jacket)     yellow       Material wire insulation     1.8 mn       Outer -diameter therance ore insulation     1.8 mn       Outer -dinameter therance wire insulation <td></td> <td></td>		
Number Note Home Ing values     endangered by excessive bending forces.       Installation   Cable       installation   Cable       wire arrangement     black 1, black 2, black 3, green-yellow       Cable Identification     227       Cable Type     2       Cable Identification     wite (isolation black)       Cable Color     gray       Type of Cartificate     CURus       Amount stranding     4 wires twisted       Wire arrangement     black 1, black 2, black 3, green-yellow       Cable wight     74.8 g/m       Material Jacket     PUR       Shore harchess jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     Iead-free, cadmium-free, CFC-free, silicone-free       Outer diameter (jacket)     7 mm       Tolerance outer diameter (sheath)     ± 5 %       Outer diameter insulation     PVC       Amount stranding     4.3 ± 5 Shore D       Outer diameter insulation     1.5 %       Outer diameter insulation     1.8 sm       Outer diameter insulation     1.8 sm       Outer diameter insulation     1.8 sm       Outer diameter insulation	Note on strain relief	
wire arrangement     black 1, black 2, black 3, green-yellow       Cable intification     227       Cable Type     2       Cable Type     2       Printing color of wire insulation     witre (isolation black)       Jacket Color     gray       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable weight     74.8 g/m       Material jacket     PUR       Store fanchess jacket     85.5 Shore A       Freedom from ingredients (jacket)     1ead-free, cachnium-free, CFC-free, silicone-free       Outer-diameter (jacket)     7 mm       Tolerance outer diameter (sheatth)     5 %       Material inner jacket     PVC       Outer diameter insulation     1.8 mm       Outer diameter insulation     1.8 mm       Outer diameter insulation     42       Diameter of single wires     0,15 mm²       Conductor russ wire insulation     42       Diameter of single wires     0,15 mm²       Conductor russ exite insulation	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.
Cable identification   227     Cable Type   2     Printing color of wire insulation   white (isolation black)     Jacket Color   gray     Type of Certificate   cURus     Amount stranding   1     Stranding   4 wires twisted     wire arrangement   black 1, black 2, black 3, green-yellow     Cable weight   7.4.8 g/m     Material jacket   PUR     Shore hardness jacket   85 1 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, silicone-free     Outer diameter (jacket)   7 mm     Tolerance outer diameter (sheatth)   ± 5 %     Material inner jacket   PVC     Color (mer jacket)   yellow     Material wire insulation   PVC     Colur diameter fusition   1.8 mm     Outer diameter insulation   1.8 mm     Outer diameter lowarco core insulation   ± 5 %     Shore hardness wire insulation   wire (solation black)     Amount strands (wire)   42     Outer diameter insulation   wire (solation black)     Amount strands (wire)   42     Diameter of single wire	Installation   Cable	
Cable Type     2       Printing color of wire insulation     while (solation black)       Jacket Color     gray       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       Stranding     4 wires twisted       Stranding     5 ± 5 Shore A       Cable weigh     7.4.8 g/m       Material jacket     PUR       Shore hardness jacket     85 ± 5 Shore A       Shore hardness jacket     85 ± 5 Shore A       Volter-diameter (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (jacket)     z 5 %       Material inner jacket     PVC       Color (inner jacket)     yellow       Material inner jacket)     yellow       Material inner jacket)     1.8 mm       Outer diameter insulation     1.8 mm       Outer diameter insulation     1.8 mm       Outer diameter insulation     ied-free, cadmium-free, CFC-free, silicone-free       Printing color of wire insulation     wile (isolation black)       Ingredient freenses wire insulation     1.8 mm       Outer diameter insula	wire arrangement	black 1, black 2, black 3, green-yellow
Printing color of wire insulationwhite (isolation black)Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding4 wires twistedWire arrangementblack 1, black 2, black 3, green-yellowCable weigth74,8 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)7 mmTolerance outer diameter (sheath)± 5 %Material inner jacketPVCColor (iner jacket)yellowMaterial inner jacketPVCColor diameter risulation1,8 mmOuter diameter loarance core insulation $\pm 5$ %Shore hardness wire insulation $\pm 5$ Shore DIngredient freeness wire insulation $\pm 5$ %Outer diameter loarance core insulation $\pm 5$ %Shore hardness wire insulation $\pm 5$ %Outer diameter loarance core insulation $\pm 5$ %Shore hardness wire insulation $\pm 5$ %Shore hardness wire insulation $\pm 5$ %Diameter stranding $\pm 5$ %Conductor rossection (wire) $0,75$ mm²Conductor rossection (wire) $0,75$ mm²Conductor wire insulation $5$ %Conductor wireStranded copper wire, bareConductor wireStrande copper wire, bareConductor wireStrande copper wire, bareConductor wireStrande copper wire, bareConductor wireStrande	Cable identification	227
Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementblack 1, black 2, black 3, green-yellowCable weigth74.8 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)7 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPVCColor (inner jacket)yellowMaterial wire insulationPVCAmount strand, switz4Outer diameter tolerance core insulation1.8 mmOuter diameter tolerance core insulation43 ± 5 Shore DShore hardness wire insulationkeat, examium-free, CFC-free, silicone-freePrinting color of wire insulationkest 5 Shore DShore hardness wire insulationkas 5 Shore DShore hardness wire insulationkas 5 Shore DShore hardness wire insulationkas 5 Shore DPrinting color of wire insulationkas 6Conductor wireStranded copper wire, bareConductor or wireStranded copper wire, bareConductor wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Electical function wireSignal	Cable Type	2
Type of CertificateCURusAmount stranding1Stranding4 wires twistedwire arrangementblack 1, black 2, black 3, green-yellowCable weigth74.8 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)7 mmTolerance outer diameter (sheath)± 5 %Material iner jacketPVCColor (inner jingket)yellowMaterial wire insulationPVCAmount wires4Outer diameter lolerance ore insulation1.8 mmOuter diameter lolerance ore insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DIngredient feeress wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulation43 ± 5 Shore DIngredient feeress wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulation42Diameter of single wires0,15 mmConductor type (wire)9,75 mm²Material conductor wireStrand copper wire, bareConductor type (wire)Strand copper wire, bareConductor type (wire)Strand class 6Electrical function wireSignalCurrent tod capacity (standard)to DIN VDE 0298-4Current tod capacity (standard)to DIN VDE 0298-4Current tod capacity (standard)to DIN VDE 0298-4Current tod capacity (standard)to DIN VDE	Printing color of wire insulation	white (isolation black)
Amount stranding1Stranding4 wires twistedWire arrangementblack 1, black 2, black 3, green-yellowCable weight74.8 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeOuter-diameter (jacket)7 mmTolerance outer diameter (sheath)± 5 %Material inner jacketPVCColor (inner jacket)yellowMaterial wire insulation1.8 mmOuter diameter tolerance outer ours wire insulation1.8 mmOuter diameter insulation± 5 %Shore Bardness wire insulation43 ± 5 Shore DIngredient freeness wire insulation43 ± 5 Shore DPrinding color wire insulationwihe (solation black)Amount wires42Diameter of wires (wires)0.15 mmConductor trype (wire)0.75 mm²Material function wireSignalConductor trype (wire)Stranded copper wire, bareConductor trype (wire)5 mandeConductor trype (wire)5 mandeConductor trype (wire)SignalConductor trype (wire)5 mandeConductor trype (wire)5 mande	Jacket Color	gray
Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable weigth     74,8 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)     7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material inner jacket     PVC       Color (inner jacket)     yellow       Material wire insulation     PVC       Color (inner jacket)     yellow       Material wire insulation     1.8 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     white (isolation black)       Arnount strands (wire)     42       Diameter of single wires     0,15 mm²	Type of Certificate	cURus
wire arangement     black 1, black 2, black 3, green-yellow       Cable weigth     74,8 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)     7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material vire insulation     PVC       Color (inner jacket)     yellow       Material vire insulation     PVC       Amount wires     4       Outer diameter tolerance core insulation     1.8 mm       Outer diameter tolerance core insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     Hed (solation black)       Amount strands (wire)     42       Diameter of single wires     0,15 mm²       Conductor crossection (wire)     0,75 mm²       Material vire (wire)     strand class 6       Electrical function wire     Signal       Nominal voltage AG max.     300 V       Conductor type, wire)     9,6 A       Electrical function wire     Signal	Amount stranding	1
Cable weigth 74,8 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) 7 mm   Tolerance outre diameter (sheath) ± 5 %   Material inner jacket PVC   Color (inner jacket) yellow   Material wire insulation PVC   Amount wires 4   Outer diameter (sheath) ± 5 %   Shore hardness wire insulation 1,8 mm   Outer diameter tolerance core insulation ± 5 %   Shore hardness wire insulation 43 ± 5 Shore D   Ingredient freeness wire insulation kit 5 mm   Conductor of wire insulation white (isolation black)   Arnount strands (wire) 42   Diameter of single wires 0,15 mm   Conductor wire Stranded copper wire, bare   Conductor wire Stranded copper wire, bare   Conductor type (wire) strand class 6   Electrical function wire Signal   Nominal voltage AC max. 300 V   Current load capacity (standard) to IN VDE 0298-4   Current load capacity min. wire 9,6 A	Stranding	4 wires twisted
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)     7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material jinner jacket     PVC       Color (inner jacket)     yellow       Material vire insulation     PVC       Amount wires     4       Outer diameter tolerance core insulation     1.8 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     4 ± 5 %       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     ± 5 %       Shore hardness wire insulation     4 ± 5 %       Amount strands (wire)     4 ± 5 %       Shore hardness wire insulation     Head-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 rowire     Signal       Material conductor wire     Signal       Nominal vol	wire arrangement	black 1, black 2, black 3, green-yellow
Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (jacket)     7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material inner jacket     PVC       Color (inner jacket)     yellow       Material vire isulation     PVC       Amount wires     4       Outer diameter tolerance core insulation     1,8 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     4 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Printing color of 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 rorssection (wire)     0,75 mm²       Material conductor wire     Signal       Nominal voltage AC max.     300 V       Current toad capacity (standard)     to DIN VDE 0298-4       Current toad capacity min. wire     9,6 A       Electrical f	Cable weigth	74,8 g/m
Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (jacket)     7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material inner jacket     PVC       Color (inner jacket)     yellow       Material wire insulation     PVC       Amount wires     4       Outer diameter tolerance core insulation     1,8 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     43 ± 5 Shore D       Ingredient freeness wire insulation     42 ± 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 wire     Stranded copper wire, bare       Conductor wire     Signal       Nominal voltage AC max.     300 V       Current load capacity (min. wire     9,6 A       Electrical function wire     Signal	Material jacket	PUR
Outer-diameter (jacket)7 mmTolerance outer diameter (sheath)± 5 %Material inner jacketPVCColor (inner jacket)yellowMaterial wire insulationPVCAmount wires4Outer diameter insulation1,8 mmOuter diameter insulation± 5 %Shore hardness wire insulation4 ± 5 %Shore hardness wire insulation4 ± 5 %Shore hardness wire insulation43 ± 5 Shore DIngredient freeness wire insulation43 ± 5 Shore DIngredient freeness wire insulation42 ± 2Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)signalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal	Shore hardness jacket	85 ± 5 Shore A
Outer-diameter (jacket)7 mmTolerance outer diameter (sheath)± 5 %Material inner jacketPVCColor (inner jacket)yellowMaterial wire insulationPVCAmount wires4Outer diameter insulation1,8 mmOuter diameter insulation± 5 %Shore hardness wire insulation4 ± 5 %Shore hardness wire insulation4 ± 5 %Shore hardness wire insulation43 ± 5 Shore DIngredient freeness wire insulation43 ± 5 Shore DIngredient freeness wire insulation42 ± 2Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)signalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Tolerance outer diameter (sheath)± 5 %Material inner jacketPVCColor (inner jacket)yellowMaterial wire insulationPVCAmount wires4Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DIngredient freeness wire insulation43 ± 5 Shore DIngredient freeness wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor vireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Electrical function wireSignal		
Material inner jacketPVCColor (inner jacket)yellowMaterial wire insulationPVCAmount wires4Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor vireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Electrical function wireSignal		±5%
Color (inner jacket)yellowMaterial wire insulationPVCAmount wires4Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor rosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (min. wire9,6 AElectrical function wireSignal		
Material wire insulation   PVC     Amount wires   4     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     Electrical function wire   Signal     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   9,6 A     Electrical function wire   Signal		vellow
Amount wires4Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal		
Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal	Amount wires	4
Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation43 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal	Outer diameter insulation	1.8 mm
Shore hardness wire insulation43 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal		
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freePrinting color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal		
Printing color of wire insulationwhite (isolation black)Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal		
Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal		
Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal		
Conductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal		
Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Electrical function wire   Signal     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   9,6 A     Electrical function wire   Signal		
Conductor type (wire)strand class 6Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal		
Electrical function wireSignalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical function wireSignal		
Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   9,6 A     Electrical function wire   Signal		
Current load capacity (standard) to DIN VDE 0298-4   Current load capacity min. wire 9,6 A   Electrical function wire Signal		-
Current load capacity min. wire 9,6 A   Electrical function wire Signal	-	
Electrical function wire Signal		

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Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	80 °C
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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