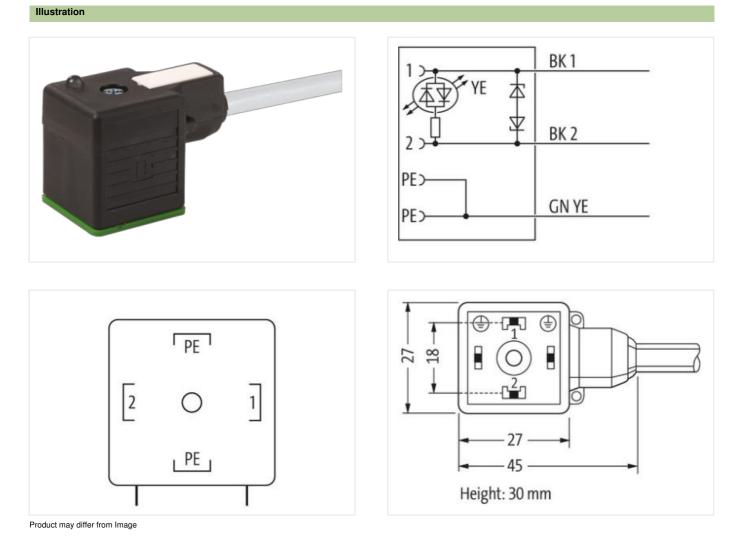


## MSUD valve plug A-18mm with cable

PVC 3x0.75 gy 3m

MSUD Form A (18 mm) 24 V AC ±20% / DC ±25% LED and suppression Bridged PE 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



CE LR 60

Cable length

3 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: 2024-05-17

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Mounting method     inserted, screwed       Family construction form     MSUD A       Thread     M3       Material     PBT       Degree of protoction (EN IEC 60528)     IP67       Commercial dat     ECLASS-6.0       ECLASS-6.0     27279218       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060312       ECLASS-9.0     27060312       ECLASS-10.1     27060312       ECLASS-10.2     27060312       ECLASS-10.3     27060312       ECLASS-10.4     27060312       ECLASS-10.5     27060312       ECLASS-10.6     27060312       ECLASS-10.7     27060312       ECLASS-10.8     27060312       ECLASS-10.8     27060312       ECLASS-10.7     27060312       ECLASS-10.8     27060312       ECLASS-10.8     27060312       ECLASS-10.8     27060312       ECLASS-10.8     27060312       ECLASS-10.8     27060312       E	htening torque	0,4 Nm
Thread     MG       Material     PBT       Degree of protection (EN IEC 60529)     IP67       Commercial data     27279218       ECLASS 6.0     27279218       ECLASS 6.1     27279218       ECLASS 6.0     27279218       ECLASS 7.0     27279218       ECLASS 7.0     27279218       ECLASS 7.0     27260312       ECLASS 7.0     27060312       ETM 5.0     EC001885       oatsoms tainf number     8544290       GTIN     4048273194310       Packaging unt     1       Electrical data     June       Capachy CX     20 ms       Electrical data [Suppy     June       Operating voltage AC max.     28 V       Operating voltage AC max.     28 V       Operating voltage AC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     55 V	unting method	inserted, screwed
Material     PBT       Degree of protection (EN IEC 60529)     IP67       Commercial dat     27279218       ECLASS-6.0     27279218       ECLASS-6.1     27279218       ECLASS-7.0     27279218       ECLASS-7.0     27269218       ECLASS-7.0     27060312       ECLASS-7.0     27060312       ECLASS-1.1     27060312       ECLASS-1.0     27060312       Eclass Education I.1     1       Electrical data <t< td=""><td>nily construction form</td><td>MSUD A</td></t<>	nily construction form	MSUD A
Degree of protection (EN IEC 60529)     IP67       Commercial data     ECLASS 6.0     27273218       ECLASS 6.1     27273218     ECLASS 7.0     27273218       ECLASS 7.0     27273218     ECLASS 6.0     ECLASS 7.0     ECLASS 7.0	ead	M3
Commercial data       EDLASS 6-0     27279218       EDLASS 6-1     27279218       EDLASS 6-0     27279218       EDLASS 7-0     27279218       EDLASS 8-0     27260312       EDLASS 7-0     272600312       EDLASS 1-1     27060312       EDLASS 1-1     27060312       EDLASS 1-2     27060312       EDLASS 1-2     27060312       ETIM 8-0     EC001885       outstoms tariff number     85444290       GTIN     4048873194310       Packaging unit     1       Electrical data     Suppy       Operating voltage AC     24 V       Operating voltage AC     24 V       Operating voltage AC max.     28 V       Operating voltage AC max.     28 V       Operating voltage AC max.     25 V       Current consumption max.     18 V       Operating voltage DC max.     30 V       Current consumption max.     55 V       Gurent coparating act max.     4 A       Outof tipeak voltage max.     55 V       Gurent coparating voltage DC max.	terial	PBT
ECLASS-6.0     27279218       ECLASS-6.1     27279218       ECLASS-7.0     27279218       ECLASS-0.0     27279218       ECLASS-0.0     27279218       ECLASS-0.0     27260312       ECLASS-10.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-11.1     27060312       ECLASS-11.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-11.1     27060312       ECLASS-11.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       Electrical dia     200913       Paterial youtage AC     24 V       Operating voltage AC max.     28.8 V       Operating volt	gree of protection (EN IEC 60529)	IP67
ECLASS-6.1     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-8.0     27279218       ECLASS-8.0     27279218       ECLASS-8.0     27279218       ECLASS-10.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ETM-5.0     EC001855       customs tariff number     85444290       GTIN     404897194310       Packaging unit     1       Electrical data     Ecores       Capacity CX     20 ms       Electrical data [Supply     Operating voltage AC       Operating voltage AC     24 V       Operating voltage AC max.     28.8 V       Operating voltage AC max.     30 V       Operating voltage DC max.     30 V       Operating voltage MD     24 V       Operating voltage max.     55 V       Current operating per contact max.     4 A       Current operating per contact max.     4 A       Current operating voltage max.     15 mA	ommercial data	
ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-8.0     27260312       ECLASS-1.1     27060312       ECLASS-1.1     27060312       ECLASS-1.20     27060312       ECLASS-1.1     27060312       ECLASS-1.20     27060312       ETIM-5.0     EC001855       customs tatiff number     8544290       GTIN     404887914910       Packaging unit     1       Electrical data	LASS-6.0	27279218
ECLASS-8.0     27279218       ECLASS-9.0     27060312       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECLASS-12.0     ECON355       customs taff number     8544290       GTIN     4048879194310       Packaging unt     1       Electrical data     Support       Capacity CX     20 ms       Electrical data   Supply     Coperating voltage AC       Operating voltage AC max.     28.8 V       Operating voltage AC max.     28.8 V       Operating voltage DC     24 V       Operating voltage DC     24 V       Operating voltage DC max.     28.9 V       Operating voltage DC max.     30.9 V       Current consumption max.     15 V       Current operating per contact max.     4 A       Current consumption max.     15 mA       Diagnostics     Sin Add-College       Stats indication LED     yellow       Installation   Connection <t< td=""><td>LASS-6.1</td><td>27279218</td></t<>	LASS-6.1	27279218
ECLASS-9.0     27060312       ECLASS-10.1     27060312       ECLASS-10.0     27060312       ECLASS-12.0     27060312       ETM-5.0     EC001655       customs taiff number     85444290       GTIN     4048879194310       Packaging unit     1       Electrical data		27279218
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ECLASS-12.0     27060312       ETIM-S.0     EC001855       oustoms taff number     85444290       GTIN     4048679194310       Packaging unit     1       Electrical dat     Electrical dat       Capacity CX     20 ms       Electrical data     Status       Capacity CX     20 ms       Electrical data     Status       Operating voltage AC     24 V       Operating voltage AC max.     28.8 V       Operating voltage AC max.     28.8 V       Operating voltage DC max.     30 V       Cut-off peak voltage max.     55 V       Current operating per contact max.     4 A       Current operating per contact max.     4 A       Current operating per contact max.     15 mA       Diagnostics     Status indication LED       Status indication LED     yellow       Installot   Connection     Status       Packaging conting per contact max.     33       Additional surgeres     3       Rated surge voltage     0.8 kV       Mounting set     M3       Device protec		
ECLASS-12.0 27060312   ETIM-S.0 ECO01855   customs tariff number 85444280   GTIN 4048873194310   Packaging unit 1   Electrical data Capacity CX   Capacity CX 20 ms   Electrical data Secondary CX   Operating voltage AC 24 V   Operating voltage AC main. 19.2 V   Operating voltage AC max. 28.8 V   Operating voltage DC max. 20 V   Operating voltage DC max. 30 V   Current consumption max. 15 V   Ourent operating port contact max. 4 A   Current consumption max. 15 mA   Diagnostics Status indication LED   Value protection I Electrical Mas   Device protection I Electrical Status indication LED   Poliution Degree 3   Rated surge voltage 0.8 KV   Material group (L6 60664-1) 1   Additional condition protection degree Inserted, screwed   Poliution Degree 3   Rated surge voltage 0.8 KV   Material group (L6 60664-1) 1   Additional suppressor Diode, Z-Diode   Material grape (Edit Material data Coating forking   Coating forking <t< td=""><td>LASS-10.1</td><td>27060312</td></t<>	LASS-10.1	27060312
ECLASS-12.0 27060312   ETIM-S.0 ECO01855   customs tariff number 85444280   GTIN 4048873194310   Packaging unit 1   Electrical data Capacity CX   Capacity CX 20 ms   Electrical data Secondary CX   Operating voltage AC 24 V   Operating voltage AC main. 19.2 V   Operating voltage AC max. 28.8 V   Operating voltage DC max. 20 V   Operating voltage DC max. 30 V   Current consumption max. 15 V   Ourent operating port contact max. 4 A   Current consumption max. 15 mA   Diagnostics Status indication LED   Value protection I Electrical Mas   Device protection I Electrical Status indication LED   Poliution Degree 3   Rated surge voltage 0.8 KV   Material group (L6 60664-1) 1   Additional condition protection degree Inserted, screwed   Poliution Degree 3   Rated surge voltage 0.8 KV   Material group (L6 60664-1) 1   Additional suppressor Diode, Z-Diode   Material grape (Edit Material data Coating forking   Coating forking <t< td=""><td>LASS-11.1</td><td>27060312</td></t<>	LASS-11.1	27060312
customs tariff number85444290GTIN4048879194310Packaging unit1Electrical dataCapacity CX20 msElectrical data   SupplyOperating voltage AC24 VOperating voltage AC min.19.2 VOperating voltage AC max.28.8 VOperating voltage DC min.18 VOperating voltage DC max.30 VCut-off peak voltage DC max.55 VCurrent operating portage DC max.55 VCurrent operating portage DC max.55 VCurrent operating portage DC max.15 mADiagnosticsJStatus indication LEDyellowInstallation   ConnectionInserted, screwedPolution logree3Rater augree voltage0,8 kVMaterial guery to JB & VJAdditional suppressorDiode, Z-DiodeMechanical data   Material dataCoating of fittingVerzinktCoating of fittingVerzinktCoating of fittingVerzinktCoating of fittingVerzinktCoating of fittingVerzinktPUR		27060312
GTIN 4048879194310   Packaging unit 1   Electrical data 20 ms   Capacity CX 20 ms   Electrical data   Supply 20   Operating voltage AC 24 V   Operating voltage AC max. 28,8 V   Operating voltage AC max. 28,8 V   Operating voltage DC max. 24 V   Operating voltage DC max. 30 V   Cut-off peak voltage DC max. 30 V   Cut-off peak voltage max. 55 V   Current operating por contact max. 4 A   Current consumption max. 15 mA   Diagnostics Yellow   Installation   Connection Yellow   Additional condition protection degree inserted, screwed   Polucin Degree 3   Rated surge voltage 0,8 kV   Material grapu (IEC 60664-1) I   Additional suppressor Diode, Z-Diode   Mechanical data   Material data Coaling of fitting   Verzinkt Coaling of fitting   Coaling of fitting Verzinkt   Coaling of fitting Verzinkt   Coaling of fitting Verzinkt	IM-5.0	EC001855
GTIN 4048879194310   Packaging unit 1   Electrical data 20 ms   Electrical data   Supply 20 ms   Diperating voltage AC 24 V   Operating voltage AC min. 19,2 V   Operating voltage AC max. 28,8 V   Operating voltage DC 24 V   Operating voltage DC min. 18 V   Operating voltage DC max. 30 V   Cut-off peak voltage max. 55 V   Current operating ocnate max. 4 A   Current operating ocnate max. 15 mA   Diagnostics Vellow   Installation   Connection Yellow   Installation   Connection Inserted, screwed   Polution Degree 3   Rate surge voltage 0,8 kV   Additional condition protection degree inserted, screwed   Polution Degree 3   Rated surge voltage 0,8 kV   Material group (IEC 60664-1) I   Additional suppressor Diode, Z-Diode   Mechanical data   Material data Coating of fitting   Coating locking Verzinkt   Coating of fitting verzinkt   Coating of fitting Verzinkt   Coating of fitting Verzinkt		
Packaging unit   1     Electrical data     Capacity CX   20 ms     Electrical data   Supply     Operating voltage AC   24 V     Operating voltage AC min.   19,2 V     Operating voltage AC max.   28,8 V     Operating voltage DC   24 V     Operating voltage DC max.   28,8 V     Operating voltage DC max.   30 V     Cut-oft peak voltage max.   55 V     Current operating per contact max.   4 A     Current operating per contact max.   15 mA     Diagnostics   Vellow     Installation   Connection   Vellow     Installation   Connection   M3     Device protection   Electrical   3     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0.8 kV     Material group (IEC 60664-1)   I     Additional suppressor   Diode, Z-Diode     Mechanical data   Material data   Coating of fitting     Coating of fitting   verzinkt     Coating of fitting   Verzinkt     Coating of fitting   Verzinkt		
Electrical data     Capacity CX   20 ms     Electrical data   Supply   Perating voltage AC   24 V     Operating voltage AC   24 V     Operating voltage AC max.   28.8 V     Operating voltage DC   24 V     Operating voltage DC   24 V     Operating voltage DC min.   18.V     Operating voltage DC max.   30 V     Cut-off peak voltage max.   55 V     Current operating por contact max.   4 A     Current operating per contact max.   4 A     Current consumption max.   15 mA     Diagnostics   yellow     Installation   Connection   yellow     Additional condition protection degree   inserted, screwed     Polution Degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   1     Additional suppressor   Diode, Z-Diode     Mechnical data   Material data   Coating of fitting     Coating of fitting   verzinkt     Coating of fitting   Verzinkt     Coating of fitting   Verzinkt     Coating of fitting   Verzinkt     Coatoring	ckaging unit	1
Electrical data   Supply     Operating voltage AC   24 V     Operating voltage AC max.   28,8 V     Operating voltage DC   24 V     Operating voltage DC   24 V     Operating voltage DC   24 V     Operating voltage DC min.   18 V     Operating voltage DC max.   30 V     Cut-off peak voltage max.   55 V     Current operating per contact max.   4 A     Current consumption max.   15 mA     Diagnostics   yellow     Installation   Connection   M3     Device protection   Electrical   M3     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   1     Additional suppressor   Diode, Z-Diode     Mechanical data   Material data   Coating of fiting     Coating of fiting   verzinkt     Coating of kiting   verzinkt     Coolor housing   black     Material gasket   PUR		
<b>Electrical data   Supply</b> Operating voltage AC   24 V     Operating voltage AC max.   28,8 V     Operating voltage DC   24 V     Operating voltage DC   24 V     Operating voltage DC   24 V     Operating voltage DC min.   18 V     Operating voltage DC max.   30 V     Cut-off peak voltage max.   55 V     Current consumption max.   4 A     Current consumption max.   15 mA     Diagnostics   yellow     Installation   Connection   yellow     Mounting set   M3     Device protection   Electrical   M3     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0.8 kV     Material group (IEC 60664-1)   I     Additional suppressor   Diode, Z-Diode     Mechanical data   Material data   verzinkt     Coating of fiting   verzinkt <td></td> <td>20 ms</td>		20 ms
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Operating voltage AC max.   28,8 V     Operating voltage DC   24 V     Operating voltage DC max.   30 V     Cut-off peak voltage max.   55 V     Current operating per contact max.   4 A     Current osumption max.   15 mA     Diagnostics   55     Status indication LED   yellow     Installation   Connection   M3     Device protection   Electrical   Additional condition protection degree     Naterial group (IEC 60664-1)   I     Additional suppressor   Diode, Z-Diode     Mechanical data   Material data   Coating locking     Coating locking   verzinkt     Coating locking   Verzinkt     Coating systex   PUR		
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Current operating per contact max.   4 A     Current consumption max.   15 mA     Diagnostics   Status indication LED     Status indication LED   yellow     Installation   Connection   M3     Device protection   Electrical   Additional condition protection degree     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   I     Additional suppressor   Diode, Z-Diode     Mechanical data   Material data   Verzinkt     Coating locking   verzinkt     Coating of fitting   verzinkt     Color housing   black     Material gasket   PUR		
Current consumption max.   15 mA     Diagnostics   yellow     Status indication LED   yellow     Installation   Connection   M3     Device protection   Electrical   M3     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   I     Additional suppressor   Diode, Z-Diode     Mechanical data   Material data   verzinkt     Coating locking   verzinkt     Color housing   black     Material gasket   PUR		
Diagnostics     Status indication LED   yellow     Installation   Connection   M3     Device protection   Electrical   M3     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   I     Additional suppressor   Diode, Z-Diode     Mechanical data   Material data   verzinkt     Coating locking   verzinkt     Coating of fitting   verzinkt     Coolor housing   black     Material gasket   PUR		15 mA
Status indication LED yellow   Installation   Connection M3   Mounting set M3   Device protection   Electrical inserted, screwed   Additional condition protection degree inserted, screwed   Pollution Degree 3   Rated surge voltage 0,8 kV   Material group (IEC 60664-1) I   Additional suppressor Diode, Z-Diode   Mechanical data   Material data verzinkt   Coating locking verzinkt   Coating of fitting verzinkt   Color housing black   Material gasket PUR		
Installation   Connection   Mounting set M3   Device protection   Electrical   Additional condition protection degree inserted, screwed   Pollution Degree 3   Rated surge voltage 0.8 kV   Material group (IEC 60664-1) I   Additional suppressor Diode, Z-Diode   Mechanical data   Material data   Coating locking verzinkt   Coating of fitting verzinkt   Color housing black   Material gasket PUR		vollow
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Rated surge voltage 0,8 kV   Material group (IEC 60664-1) I   Additional suppressor Diode, Z-Diode   Mechanical data   Material data Verzinkt   Coating of fitting verzinkt   Color housing black   Material gasket PUR	ditional condition protection degree	inserted, screwed
Material group (IEC 60664-1)   I     Additional suppressor   Diode, Z-Diode     Mechanical data   Material data   Verzinkt     Coating of fitting   verzinkt     Color housing   black     Material gasket   PUR	lution Degree	3
Additional suppressor Diode, Z-Diode   Mechanical data   Material data Verzinkt   Coating locking verzinkt   Coating of fitting verzinkt   Color housing black   Material gasket PUR		0,8 kV
Mechanical data   Material data     Coating locking   verzinkt     Coating of fitting   verzinkt     Color housing   black     Material gasket   PUR		
Coating lockingverzinktCoating of fittingverzinktColor housingblackMaterial gasketPUR	ditional suppressor	Diode, Z-Diode
Coating of fittingverzinktColor housingblackMaterial gasketPUR	echanical data   Material data	
Color housing black   Material gasket PUR	ating locking	verzinkt
Material gasket PUR	ating of fitting	verzinkt
	or housing	black
l ocking material Steel	terial gasket	PUR
	cking material	Steel
Material screw connection Steel	terial screw connection	Steel
Mechanical data   Mounting data	echanical data   Mounting data	
Mounting method inserted, screwed	·	inserted. screwed

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: 2024-05-17

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Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
Cable identification	216
Cable Type	1
Printing color of wire insulation	white (isolation black)
Jacket Color	gray
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	63,8 g/m
Material jacket	PVC
Shore hardness jacket	80 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	5,9 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,8 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	43 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	24
Diameter of single wires	0,2 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Max. rated voltage (conductor - conductor)	500 V
Max. rated voltage (conductor - ground)	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)	3 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	3 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
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

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: 2024-05-17

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