

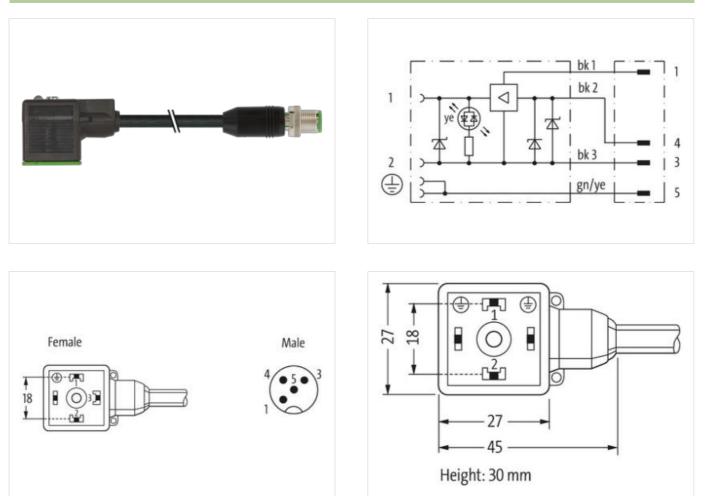
## M12 male 0° A-cod. / MSUD valve plug A-18mm

PUR 4x0.75 bk UL/CSA+drag ch. 0.6m

Form A (18 mm) Further cable lengths on request. Male M12 straight 12...30 V DC 4-pole Z-Diode + LED Control current Switching frequency Plastic housings with good resistance against chemicals and oils.

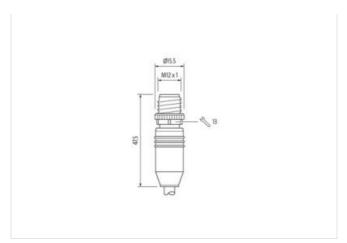
## Link to Product

Illustration



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: 2024-05-21





Product may differ from Image



Cable length	0,6 m	
Side 1		
Tightening torque	0,4 Nm	
Mounting method	inserted, screwed	
Coating contact	silver-plated	
Family construction form	MSUD	
Thread	M3	
Material contact	Copper alloy	
Material	PUR	
No. of poles	4	
Side 2		
Tightening torque	0,6 Nm	
Mounting method	inserted, screwed	
Coating contact	gold plated	
Family construction form	M12	
Thread	M12 x 1	
Material contact	Copper alloy	
Material	PBT	
No. of poles	4	
Width across flats	SW13	
Commercial data		
ECLASS-6.0	27143423	
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	4048879143400	

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Electrical data   SupplyOpenating vallage DC ma.12 VOpenating vallage DC ma.30 VClut of peak vallage ma.46 VOperating vallage protonat ma. (40°C)1.1 AOperating vallage protonat ma. (40°C)2.ACurrent consumption ma.6 MADispositionVallage protonat ma. (40°C)DispositionVallage protonat ma. (40°C)DispositionParietal statistica protonation (40°C)Disposition (40°C)Parietal statistica protonation (40°C)DispositionParietal statistica protonation (40°C)DispositionVallage protonation (40°C)Contro for protonation (40°C)Parietal statistica protonation (40°C)DispositionVallage protonatis (40°C)Disposition	Packaging unit	1
Overland prolege DC max.     90 V       Carl of pake voltage max.     46 V       Operating current pre contact max. (MOV)     2 A       Corrent consumptions max.     6 mA       Desceptore contact max. (MOV)     2 A       Corrent consumptions max.     6 mA       Desceptore contact max. (MOV)     2 A       Corrent consumptions max.     6 mA       Desceptore contact max. (MOV)     2 A       Contact max (MOV)     2 A       Desceptore contact max. (MOV)     2 A       Desceptore contact max. (MOV)     2 A       Desceptore contact max. (MOV)     2 A       Contact max (MOV)     2 A       Desceptore contact max.     50 Hz       Machanical data     Motol       Machanical data     Motol       Machanical data     Motol       Material possition     Net kolud       Contar for comparison possition     Net kolud       Contart for comparison possition kolud     PUF       Material possition     PUF       Material possition     PUF       Material possition kolud     Pusoc       Locking match <td>Electrical data   Supply</td> <td></td>	Electrical data   Supply	
Overland prolege DC max.     90 V       Carl of pake voltage max.     46 V       Operating current pre contact max. (MOV)     2 A       Corrent consumptions max.     6 mA       Desceptore contact max. (MOV)     2 A       Corrent consumptions max.     6 mA       Desceptore contact max. (MOV)     2 A       Corrent consumptions max.     6 mA       Desceptore contact max. (MOV)     2 A       Contact max (MOV)     2 A       Desceptore contact max. (MOV)     2 A       Desceptore contact max. (MOV)     2 A       Desceptore contact max. (MOV)     2 A       Contact max (MOV)     2 A       Desceptore contact max.     50 Hz       Machanical data     Motol       Machanical data     Motol       Machanical data     Motol       Material possition     Net kolud       Contar for comparison possition     Net kolud       Contart for comparison possition kolud     PUF       Material possition     PUF       Material possition     PUF       Material possition kolud     Pusoc       Locking match <td>Operating voltage DC min.</td> <td>12 V</td>	Operating voltage DC min.	12 V
Cale of park voltage max.     46 Y       Oparating current per contact mix. (40 °C)     0.1 A       Oparating current per contact mix. (40 °C)     0.4 A       Degreting current per contact mix. (40 °C)     0.4 A       Degreting current per contact mix. (40 °C)     0.4 A       Degreting current per contact mix. (40 °C)     0.4 A       Device protection [Electrical     parks       Device protection [Electrical     Per		30 V
Operating current per contact mix. (40°C)     2.1.A       Operating current per contact mix. (40°C)     2.A       Current consumption max.     6 mA       Dignositie     Status indication LED       Status indication LED     yellow       Device protection [Febrical     Important consumption max.       Degrade of potection (Fb NEC 60:020)     Important consumption max.       Edicitical data     Important per constat max.       Edicitical data     Important consumption max.       Edicitical data     Important consumption max.       Control for consignet hose     without       Mechanical data     Important consumption max.       Control for consignet hose     without       Mechanical data     Important consumption max.       Control for consignet hose     without       Mechanical data     Important consumption max.       Control for consignet hose     without       Mechanical data     Important consumption for the connectors by suitable measures from mechanical leads, e.g. by the usage of cable less.       Note on bending radiu     Attention: Conserve the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending forces.       Contornity <td></td> <td></td>		
Operating ourrent per context max. (40°C)     2 A       Current consumption max.     6 mA       Design outper consumption max.     6 mA       Device protection   Electrical     yellow       Device protection   Electrical     period protection   Electrical       Device protection   Electrical     inserted, screwed       Electrical data   Output     Electrical       Verbing frequency max.     50 Hz       Mechanical data     Contour for corrugated hose       Contour for corrugated hose     without       Mechanical data     Mechanical data       Contour for corrugated hose     without       Mechanical data     Mechanical data       Control for corrugated hose     without       Mechanical data     Pastic       Control for corrugated hose     Pastic       Lacking material     Zine discusting       Material pastic     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tise.       Note on sering realier     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tise.       Note on sering realier     Diff Pastic Concound by concessive bendming reali when leying cables, so the 'P protectin class can be c		0,1 A
Current consumption max. 6 mA   Disposities Status indication LED   Status indication LED yellow   Device protection   Electrical PPF   Additional condition protection degree imaented, screwed   Electrical data Status indication data   Soliciting frequency max. 50 Hz   Mechanical data Contour for corrupated hose   Material posing Nickeled   Contour for corrupated hose without   Mechanical data Contour for corrupated hose   Material posing Nickeled   Control for corrupated hose without   Mechanical data PUR   Material mousing PUR   Material mousing PUR   Mechanical data   Mounting data Mounting data   Mounting method inserted, screwed   Important installation notes Note on strain relief   Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Cobserve the permissible banding rabil when laying cables, as the IP protection class can be endargered by excessive bending tradits   Conformity Dit NE 1076-2-101 (M12)   Installation I Gable Sinter Note on strain relief   Protect transid on black 1, black 2, black 3, green yellow   Ca		2 A
Status indication LED     yellow       Designe of protection   Electrical     IP67       Designe of protection (EN IEC 60529)     IP67       Additional condition protection degree     inserted, screwed       Electrical data   Output     So Hz       Mechanical data     Witch       Contour for corrugated hose     without       Mechanical data   Material data     Nickeled       Contour for corrugated hose     without       Material gasket     PUR       Material gasket     PUR       Material gasket     PUR       Material gasket     PUR       Mounting method     inserted, screwed       Important Installation notes     Terretore screwed       Mounting realistion notes     Attention: Oscerwe the permissible bending radii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protectio		6 mA
Status indication LED     yellow       Designe of protection   Electrical     IP67       Designe of protection (EN IEC 60529)     IP67       Additional condition protection degree     inserted, screwed       Electrical data   Output     So Hz       Mechanical data     Witch       Contour for corrugated hose     without       Mechanical data   Material data     Nickeled       Contour for corrugated hose     without       Material gasket     PUR       Material gasket     PUR       Material gasket     PUR       Material gasket     PUR       Mounting method     inserted, screwed       Important Installation notes     Terretore screwed       Mounting realistion notes     Attention: Oscerwe the permissible bending radii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protection datas can be ending readii when kying cables, as the IP protectio	Diagnostics	
Degree of protection (EN IEC 60629)     IP67       Addinonal condition protection degree     inserted, screwed       Electrical data   Output     50 Hz       Mechanical data     50 Hz       Mechanical data     without       Mechanical data     Whout       Mechanical data     Mechanical data       Contor for corrugated hose     without       Mechanical data   Metrial data     Delack       Coling locking     Mack       Golr housing     Baack       Material pasket     PUR       Mechanical data   Mounting data     Zinc disc casting       Mechanical data   Mounting data     Inserted, screwod       Mounting mathoi     Inserted, screwod       Important installation notes     Attention: Chearve the permissible bending radii when laying cables, as the IP protection dasas can be endangered by excessive bending forces.       Contormity     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fees.       Product standred     DIN EN 61076-2-101 (M12)       Installation   Cable     Size A 2-101 (M12)       Installation   Cable     Size A 2-101 (M12)       Cable dopring loads A 37     Size A 37 <td></td> <td>yellow</td>		yellow
Additional condition protection degree     inserted, screwed       Electrical data   Output     So Hz       Switching frequency max,     50 Hz       Mechanical data     Contour for corrugated hose     without       Mechanical data   Material data     Cooling   black     Nickeled       Cooling looking     Black     PUR       Material pasket     PUR     Nickeled       Cocking material     Zinc die-casting     Material housing       Material pasket     PUR     Nickeled       Mounting mathred     inserted, screwed     Mounting mathred       Motoral installation notes     Nickeled screwed     Mounting mathred       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     DIN EN 61076-2101 (M12)     Material screwed       Installation Cable     Stanthorn: Community     Stanthorn: Community       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Attention: Cheave the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending froms.       Conformity     Inserted, screwed     Material acked, screwed	Device protection   Electrical	
Additional condition protection degree     inserted, screwed       Electrical data   Output     So Hz       Switching frequency max,     50 Hz       Mechanical data     Contour for corrugated hose     without       Mechanical data   Material data     Cooling   black     Nickeled       Cooling looking     Black     PUR       Material pasket     PUR     Nickeled       Cocking material     Zinc die-casting     Material housing       Material pasket     PUR     Nickeled       Mounting mathred     inserted, screwed     Mounting mathred       Motoral installation notes     Nickeled screwed     Mounting mathred       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     DIN EN 61076-2101 (M12)     Material screwed       Installation Cable     Stanthorn: Community     Stanthorn: Community       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Attention: Cheave the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending froms.       Conformity     Inserted, screwed     Material acked, screwed	Degree of protection (EN IEC 60529)	IP67
Electrical data   Output     50 Hz       Switching frequency max.     50 Hz       Mechanical data     Image: Control for corrugated hose     without       Mechanical data   Material data     Image: Control for corrugated hose     without       Mechanical data   Material data     Image: Control for corrugated hose     black       Color housing     black     Control for corrugated hose     PUR       Material pasket     PUR     Control for corrugated hose     Control for corrugated hose       Material housing     Plastic     Control for corrugated hose     Control for corrugated hose       Material for for data   Mounting data     Zinc die casting     Mechanical data   Mounting data       Mounting method     Imserted, screwed     Important installation notes     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endergreed by excessive bending forces.       Contomity     Protect the connectors by suitable measures from mechanical loads, eq. by the usage of cable lies.       Note on strain relief     Protect the connectors by suitable measures form mechanical loads, eq. by the usage of cable lies.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, eq. by the usage of cable lies.       Installa		inserted, screwed
Switching frequency max.     50 Hz       Nechanical data     without       Contour for corrugated hose     without       Mechanical data   Material data     Nickeled       Coating locking     Nickeled       Color housing     black       Material gasket     PUR       Material gasket     PUR       Material housing     Plastic       Locking material     Zinc die-casting       Mechanical data   Material housing data     Inserted, screwed       Important installation notes     Inserted, screwed       Mote on strain rolkef     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.       Attention: Observe the parmissible bending radi when laying cables, as the IP protection class can be endingered by excessive bending forces.       Contornity     In EN 1076-2-101 (M12)       Installation (Cable     Iblack 1, black 2, black 3, green-yellow       Cable identification     637       Cable identification     637       Cable identification     637       Cable identification     black       Type of Carlitate     cURus       Armount stranding     1		
Mechanical data     without       Contour for corrugated hose     without       Coating locking     Nickeled       Codor housing     black       Material gasket     PUR       Material housing     Plastic       Locking method     Zinc die-casting       Methanial housing     Plastic       Locking method     inserted, screwed       Important installation notes     Note on strain relief       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.       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.       Contornity     Product standard     DIN EN 61076-2-101 (M12)       Installation fabi     Julick 1, black 2, black 3, green-yellow       Cable Type     3       Printing color of wire insulation     white (solation black)       Jacket Color     Dlack       Type of Certificate     CURus       Amount stranding     1 <t< td=""><td>· · ·</td><td>50 Hz</td></t<>	· · ·	50 Hz
Control for corrugate hose     without       Mechanical data   Material data     Interval data       Coaling looking     Nickeled       Color housing     black       Material gasket     PUR       Material gasket     PUR       Material fasket     PUR       Material fasket     FUR       Material fasket     FUR       Material gasket     PUR       Material fasket     FUR       Material fasket     FUR       Material gasket     FUR       Material fasket     Fur       Material gasket     Fur       Material gasket     Fur       Material fasket     Fur       Material gasket     Fur       Material fasket     Fur       Material gasket     Pur       Note on strain relief     Protect the connectors by suitable measures from mechanical loaks, e.g. by the usage of cable test		JU 11Z
Mechanical data     Material data       Coating looking     Nickeled       Color housing     black       Material gasket     PUR       Material gasket     Pure       Material gasket     Pure       Material gasket     Pure       Material gasket     Material gasket       Mechanical data   Mounting data     inserted, screwed       Important installation notes     Material gasket       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 fradii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Material classe       Product standard     DIN EN 61076-2-101 (M12)       Installation [Cable     Diak 1, black 2, black 3, green-yellow       Cable dentification     637       Cable denti		
Coating locking     Nickeled       Color housing     black       Material gasket     PUR       Material lousing     Plastic       Locking material     Zinc die-casting       Material housing     Inserted, screwed       Inpertant installation notes     Inserted, screwed       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note of ordical stands     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Co	Contour for corrugated hose	without
Color housing     black       Material gasket     PUR       Material pousing     Plastic       Locking material     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed       Important installation notes     Inserted, screwed       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.       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.       Conomity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     wire arrangement       vire arrangement     black 1, black 2, black 3, green-yellow       Cable identification     637       Cable identification     637       Cable identification     637       Cable identification     black       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable weigh     69.3 g/m       Material jac	Mechanical data   Material data	
Material gasket     PUR       Material pousing     Plastic       Locking material     Zinc die-casting       Mechanical data   Mounting data     Mounting method       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 tiles.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiles.       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.       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Standing       wire arrangement     black 1, black 2, black 3, green-yellow       Cable Type     3       Printing color of wire insulation     white (isolation black)       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable type     9.3 gr/m	Coating locking	Nickeled
Material housing     Plastic       Locking material     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed       Important installation notes     Inserted, screwed       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.       Conformity     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.       Conformity     Protect standard       Protot standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Standard       Use (a transpement)     black 1, black 2, black 3, green-yellow       Cable (Aprilication     637       Cable (Aprilication     637       Cable (Aprilicate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable weighth </td <td>Color housing</td> <td>black</td>	Color housing	black
Locking material     Zinc die-casting       Mechanical data   Mounting data     inserted, screwed       Important installation notes     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       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.       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Standard       Wrie arrangement     black 1, black 2, black 3, green-yellow       Cable identification     637       Cable identification     637       Cable identification     black       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable weight     69.3 g/m       Gable weight     69.3 g/m       Kartanding     1       Stranding     4 wires twisted       Wire arrangement<	Material gasket	PUR
Mechanical data   Mounting data       Mounting method     inserted, screwed       Important installation notes     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       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.       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     standard       wire arrangement     black 1, black 2, black 3, green-yellow       Cable identification     637       Cable Type     3       Printing color of wire insulation     white (isolation black)       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     black 2, black 3, green-yellow       Cable weigth     69.3 g/m       Material jacket     PUR       Stranding     4 wires twisted       Material jacket     90 ±	Material housing	Plastic
Mounting method     inserted, screwed       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 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.       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Standard       wire arrangement     black 1, black 2, black 3, green-yellow       Cable identification     637       Cable Identification     Standard       Type of Certificate     cURus       Amount stranding     1       Stranding     4 viers twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable weigth     69.3 g/m       Amount stranding     1       Stranding     4 viers twisted       Wire arrangement     black 1, black 2, black 3, green-yellow       Cable weigth     69.3 g/m       Material jacket     PUR       Store hardness jacket     90 ± 5 Shore A	Locking material	Zinc die-casting
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.       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     stantagement       black 1, black 2, black 3, green-yellow     Cable identification       Cable identification     637       Cable identification     637       Cable identification     black 1, black 2, black 3, green-yellow       Cable identification     black       Printing color of wire insulation     white (isolation black)       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable weigth     69.3 g/m       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredienets (jacket)     lead-free, cadmium-free,	Mechanical data   Mounting data	
Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fies.       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.       Conformity     Image: Conformity       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Endation   Cable       wire arrangement     black 1, black 2, black 3, green-yellow       Cable identification     637       Cable identification     637       Cable identification     black       Printing color of wire insulation     white (isolation black)       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow       Cable weigth     69.3 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)     6,5 mm       Tolerance outer diam	Mounting method	inserted, screwed
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.       Conformity     Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     wire arrangement     black 1, black 2, black 3, green-yellow       Cable identification     637     Cable Type     3       Printing color of wire insulation     white (isolation black)     Jacket Color       Jacket Color     black     URus       Amount stranding     1     Stranding     4 wires twisted       wire arrangement     black 1, black 2, black 3, green-yellow     Cable Type     3       Type of Certificate     cURus     CuRus     CuRus     CuRus     Cable type     3       Stranding     4 wires twisted     93 g/m     Cable weigth     69.3 g/m     Cable weigth     69.3 g/m     Cable weigth     69.3 g/m     Cable type     Cable type     Cable weigth     69.5 mm     Could the fill cacket     Cable weigth     6.5 mm <td< td=""><td>Important installation notes</td><td></td></td<>	Important installation notes	
Note on bending radiusendangered by excessive bending forces.ConformityProduct standardDIN EN 61076-2-101 (M12)Installation   Cablewire arrangementblack 1, black 2, black 3, green-yellowCable identification637Cable identification637Cable Type3Printing color of wire insulationwhite (isolation black)Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementblack 1, black 2, black 3, green-yellowCable weigth69,3 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)15 %Material wire insulationPPAmount wires4	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standardDIN EN 61076-2-101 (M12)Installation   Cablewire arrangementblack 1, black 2, black 3, green-yellowCable identification637Cable identification637Cable of wire insulationwhite (isolation black)Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementblack 1, black 2, black 3, green-yellowCable weigth69.3 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4	Note on bending radius	
Installation   Cablewire arrangementblack 1, black 2, black 3, green-yellowCable identification637Cable Type3Printing color of wire insulationwhite (isolation black)Jacket ColorblackType of CertificatecURusAmount stranding1Stranding4 wires twistedwire arrangementblack 1, black 2, black 3, green-yellowCable weigth69,3 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4	Conformity	
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Cable weigth69,3 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6,5 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4	-	4 wires twisted
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) 6,5 mm   Tolerance outer diameter (sheath) ± 5 %   Material wire insulation PP   Amount wires 4	wire arrangement	black 1, black 2, black 3, green-yellow
Shore hardness jacket 90 ± 5 Shore A   Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Outer-diameter (jacket) 6,5 mm   Tolerance outer diameter (sheath) ± 5 %   Material wire insulation PP   Amount wires 4	Cable weigth	69,3 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free   Outer-diameter (jacket) 6,5 mm   Tolerance outer diameter (sheath) ± 5 %   Material wire insulation PP   Amount wires 4	Material jacket	PUR
Outer-diameter (jacket) 6,5 mm   Tolerance outer diameter (sheath) ± 5 %   Material wire insulation PP   Amount wires 4	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires4	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP   Amount wires 4	Outer-diameter (jacket)	6,5 mm
Amount wires 4	Tolerance outer diameter (sheath)	± 5 %
	Material wire insulation	PP
Outer diameter insulation 1,85 mm	Amount wires	
	Outer diameter insulation	1,85 mm

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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	9,6 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	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
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

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