

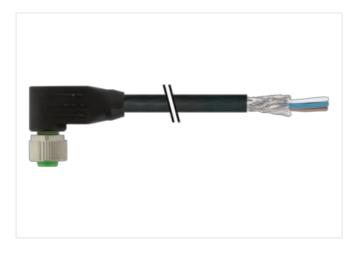
## M12 female 90° A-cod. with cable

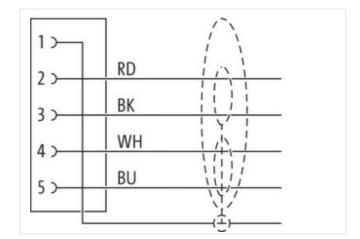
PUR AWG24+22 shielded bk UL/CSA+drag ch. 5m

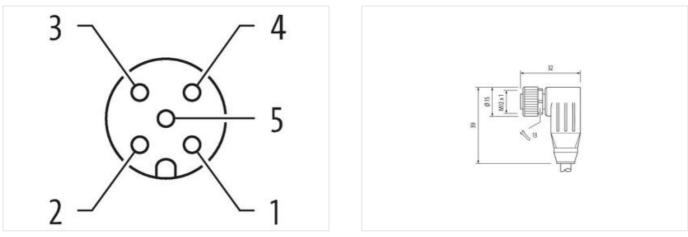
DeviceNet, CANopen Female 90° M12, 5-pole shielded Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

## Tightening torque

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: 2024-05-09

5 m

0,6 Nm



Thread     M12 x 1       Coding     A       Material     PUR       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     E       ECLASS-6.0     27061801       ECLASS-6.1     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-10.1     27061801       ECLASS-10.2     27061801       ECLASS-10.3     27061801       ECLASS-10.4     27061801       ECLASS-10.5     27061801       ECLASS-10.6     EC01855       customs tariff number     8544229       GTIN     4065909050019       Packaging unit     1       Electrical data   Supply     Coperating voltage AC max.       G0 V     Qoperating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC (UL	Mounting method	inserted, screwed
Cading     A       Material     PUR       Web arcsas fats     SW13       Degree of protection (EN IEC 60529)     IPES, IPESC, IPES       Commercial degree     27061801       ECLASS-6.0     27061801       ECLASS-6.1     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-8.0     27061801       ECLASS-8.0     27061801       ECLASS-8.0     27061801       ECLASS-1.1     27061801       ECLASS-1.2     27061801       ECLASS-1.1     27061801       ECLASS-1.2     27081801       ECLASS-1.2	Family construction form	M12
Material     PLF       Width across flata     SW13       Degree of protection (EN IEC 60520)     IEES, IP66K, IF67       Commercial data     27061801       ECLASS 6.0     27061801       ECLASS 7.0     E001825       castoms suff number     8544250       GTM     46850060019       Parkaging undit     1       Eccecccccccccccccccccccccccccccccccccc	Thread	M12 x 1
Widh across fails     SW13       Degree of protection (EN EC 6020)     IPES, IPESR (EFC 7       Commercial dis     E       ECLASS 6.0     27061801       ECLASS 7.0     27061801       ETM 5.0     ECO10355       Ecutisal distal Supply     40650005019       Packaging unit     1       Echecisal distal Supply     407       Operating voltage AC (nas.     60 V       Ope	Coding	A
Degree of protection (EN IEC 60529)     IP65, IP66K, IP67       Commercial data     E       ECLASS-6.0     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-6.1     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-7.0     27061801       ECLASS-7.1     27061801       ECLASS-7.1     27061801       ECLASS-7.1     27061801       ECLASS-7.1     27061801       ECLASS-7.20     27061801       ECLASS-7.1     27061801       ECLASS-7.1     27061801       ECLASS-7.20     27061801       Operating voltage AC (UL-Listed)     30 V	Material	PUR
Commercial data       ECIASS 8.0     27061801       ECIASS 8.10     27061801       ECIASS 8.10     27061801       ECIASS 8.10     27061801       ECIASS 8.11     27061801       ECIASS 8.12.0     27061801       ECIASS 8.13.0     27061801       ECIASS 8.13.0     27061801       ECIASS 8.13.0     27061801       ECIASS 9.11     27061801       ECIASS 9.11     27061801       ECIASS 9.11     27061801       ECIASS 9.11     27061801       ECIASS 9.00     27061801       ECIASS 9.00     27061801       ECIASS 9.00     27061801       EVEXtrapology 0.00     0.00       Operating voltage AC max.     80 V       Operating voltage AC max.     80 V       Operating voltage PC max.     80 V       Operating voltage PC max.     80 V       Operating voltage PC max.     80 V	Width across flats	SW13
ECLASS-6.027061801ECLASS-7.027061801ECLASS-7.027061801ECLASS-8.027061801ECLASS-8.027061801ECLASS-10.127061801ECLASS-11.127061801ECLASS-12.027061801ECLASS-13.127061801ECLASS-14.127061801ECLASS-10.127061801ECLASS-12.027061801ECLASS-12.027061801ETM-5.0EC001855cautom staff undber8544280GNIN40569905019Packaging unit1Eterctical attal [SupplyOperating voltage OC max.60 VOperating voltage OC Max.60 VOperating voltage OC LUL-listed.30 VOperating voltage OC LUL-listed.30 VCurrent Operating voltage OC LUL-listed.1EterticalIt 2 L1EterticalIt 2 L1Device protection   EterticalIt 2 L1Device protection   EterticalIt 2 L1Device protection   EterticalIt 2 L1Cating lacking INickaledCating lacking INickaledCating lacking INickaledCating lacking INickaledCating lacking INickaledCating lacking I	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
ECLASS 6.1     27061801       ECLASS 7.0     27061801       ECLASS 8.0     27061801       ECLASS 8.0     27061801       ECLASS 8.0.1     27061801       ECLASS 8.10.1     27061801       ECLASS 8.10.1     27061801       ECLASS 8.12.0     27061801       ECLASS 9.11     0405699650019       Packaging unit     1       Electrical data [Supply     0       Operating voltage AC max.     60 V       Oparating voltage AC max.     60 V       Oparating voltage AC max.     60 V       Oparating voltage AC (LL-isted)     30 V       Advisor for conduction protection degree     inserded. screwed       Polizion Degree     3       Raid starge Voltage	Commercial data	
ECLASS 7.0     27061801       ECLASS 8.0.     27061801       ECLASS 8.0.     27061801       ECLASS 8.10.     27061801       ECLASS 8.11.     27061801       ECLASS 8.12.     27061801       ECLASS 8.12.0     27061801       ETIM 5.0     ECO018855       Controm torff mumber     8544280.0       GTIN     406500000019       Packaging unit     1       Electrical and Suppy     Electrical and Suppy       Operating voltage AC max.     60 V       Operating voltage AC (LL-listed)     30 V       Device protection [Electrical     Barbot       Muting according to the served     Policon Degree       Device protection [Electrical     SintV       Mutental group (IEC	ECLASS-6.0	27061801
ECLASS 8.0 27061801   ECLASS 9.0 27061801   ECLASS 9.0 27061801   ECLASS 9.1 27061801   ECLASS 9.0 EC001685   outoms taff rumber 85444290   GTIN 406590950019   Packaging unit 1   Electrical data [Suppy    Operating voltage DC max. 60 V   Operating voltage DC max. 61 V   Operating voltage DC max. 61 V   Operating voltage DC max. 61 V   Opera	ECLASS-6.1	27061801
ECLASS 9.0     27061801       ECLASS 9.1.1     27061801       ECLASS 1.1.1     27061801       ECLASS 1.1.0     27061801       ECLASS 1.1.0     EC001855       usatoms tarff number     B544280       OTIN     4065909050019       Packaging unit     1       Effectical data   Suppty     Effectical data   Suppty       Operating voltage AC max.     60 V       Operating voltage DC max.     60 V       Operating voltage DC (UL-listed)     30 V       Current operating ber contact max.     4 A       Installation   Connection     M12 x 1       Device protection   Electrical     Material group (EC 60664-1)       Additional protection degree     inserted. screwed       Pollution Degree     3       Additional fooding     Nickeled       Contur for corugate hose     without       Mechanical data   Mounting data     Incei-casting	ECLASS-7.0	27061801
ECLASS:10.1     27061801       ECLASS:11.1     27061801       ECLASS:20     27061801       ETIM:50     EC001855       outoms tarff rumber     85444280       GTIN     40569900019       Packaging unf     1       Electrical data   Supply     0       Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC (LL-Isted)     30 V       Current operating per contact max.     4 A       Installation   Connection     U       Device protection   Electrical     30 V       Current operating voltage AC (LL-Isted)     30 V       Device protection   Electrical     10 V       Electrical     10 V       Current operating per contact max.     4 A       Hatel auro voltage AC (LL-Isted)     30 V       Current operating operation light in the screwed     10       Polizion protection legree     3       Relate surge voltage     1,5 kV       Material group (EC 60664:1)     1       Mechanici datai     Matel	ECLASS-8.0	27061801
ECLASS-11.1     27061801       ECLASS-12.0     27061801       ECLASS-12.0     27061801       ECLASS-12.0     27061801       ECLASS-12.0     27061801       customs tariff number     85444280       GTIN     406599050019       Packaging unit     1       Electrical data [Supply     0       Operating voltage AC max.     60 V       Operating voltage AC UL-Listed)     30 V       Operating voltage AC (LU-Listed)     30 V       Device protection [Electrical     Material condition protection degree       Installation [Connection     Insteried, screwed       Pollution Degree     3       Rated aurge voltage     1,5 kV       Material group (ICC 6064-1)     1       Mechanical data [Material data     Coctaurg of fitting	ECLASS-9.0	27061801
ECLASS-12.0     27061801       ETIM 5.0     EC001855       existoms tailf number     85444290       GTIN     4065909650019       Packaging unit     1       Electrical data   Supply     U       Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC (ILL-listed)     30 V       Current operating per contact max.     4 A       Installation   Connection     Max*1       Davice protection   Electrical     Additional condition protection degree       Additional condition protection degree     1inserted, screwed       Pollution Degree     3       Rated surge voltage     1.5 kV       Material group (Ecose64-1)     1       Mechanical data   Material data     Maxel (Ecose64-1)       Contour for corrugated hose     without       Material acrew	ECLASS-10.1	27061801
ETIM \$.0     EC001855       customs tariff rumber     85444290       GTIN     406590050019       Packaging unit     1       Electical data   Supply        Operating voltage AC max.     60 V       Operating voltage DC Max.     40 A       Installation   Connection     40 A       Mouting set     M12 x 1       Device protection   Electrical     40       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1.5 k/V       Material group (IEC 60664.1)     1       Mechanical data     Without       Mechanical data     Vickeled       Coating of Ming     Nickeled       Coating of Ming     Nickeled protection       Coating of Ming     Inserted, screwed, Shaking protection       Mechanical data   Mounting data	ECLASS-11.1	27061801
busins tariff number     85444290       GTIN     4065509050019       Packaging unit     1       Electical dal Supply     Electical dal Supply       Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC (UL-listed)     30 V       Operating voltage DC max.     4 A       Installizion I Connection     4 A       Installizion I Connection     M12 x 1       Device protection I Electrical     M2 x 1       Device protection I Electrical     Sovee protection I Electrical Max       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (Electrical data     Utiout       Contour for corrugated hose     without       Mechanical data I Material data     Zine die-easting       Coating locking     Nickeled       Coating locking material     Zine die-easting       Material sore (Listed Screwed, Shaking protection     Electrical data       Coating of fitting     Inserted, screwed, Shaking protection       Material Sore (Listeretine: Observe	ECLASS-12.0	27061801
GTIN 4065909050019   Packaging unit 1   Electrical data   Supply   Operating voltage AC max. 60 V   Operating voltage AC max. 60 V   Operating voltage AC (LL-listed) 30 V   Current operating por contact max. 4 A   Installation   Connection 4 A   Installation   Connection 4 A   Device protection   Electrical M12 x 1   Device protection   Electrical M12 x 1   Additional condition protection degree iserted, screwed   Pollution Degree 3   Rated surge voltage 1,5 kV   Material group (IEC 60664-1) 1   Mechanical data Witout   Mechanical data   Material data User device de	ETIM-5.0	EC001855
Packaging unit     1       Electrical data   Supply        Operating voltage AC max.     60 V       Operating voltage AC (UL-listed)     30 V       Operating voltage AC (UL-listed)     30 V       Current operating protocate max.     4 A       Installation   Connection        Mounting set     M12 x 1       Device protection   Electrical        Additional condition protection degree     inserted, screwed       Pollution Degree     3       Readed surge voltage     1,5 kV       Material group (IEC 60664-1)     1       Mechanical data        Contour for corrugated hose     without       Mechanical data        Coating of fitting     nickel plated       Coating of fitting     nickel plated       Cating on time method     inserted, screwed, Shaking protection       Mechanical data   Mounting data        Mounting method     inserted, screwed, Shaking protection       Coating of fitting     nickel plated       Coating of fitting     nickel plated       Conduring method     inserted, screwed,	customs tariff number	85444290
Electrical data   Supply       Operating voltage AC max.     60 V       Operating voltage DC max.     60 V       Operating voltage DC (UL-listed)     30 V       Current operating per contact max.     4 A       Installation I Connection     Installation I Connection       Bovicing protection letterical     Material screwed       Pollution Degree     3       Rated Surge voltage     1.5 kV       Material group (IEC 60664-1)     I       Mechanical data   Material data     Indeveloperation I Indeveloperation       Contor for corrugated hose     without       Mechanical data   Material data     Indeveloperating       Coating locking     Nickeled       Coating of fitting     indeveloperating       Locking and fitting     indeveloperating       Material screw connection     Zinc die-casting       Material screw connection     iserted	GTIN	4065909050019
Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC (UL-listed)     30 V       Operating voltage DC (UL-listed)     4 A       Installation   Connection     4 A       Installation   Connection of gene     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (IEC 60664-1)     1       Mechanical data     Contur for corrugated hose       Contur for corrugated hose     without       Mechanical data     Zinc die-casting       Material group (IEC 60664-1)     Inckel Jated       Contur for corrugated hose     without       Mechanical data     Material group (IEC 60664-1)       Containg locking     Nickeled       Containg of fitting     nickel Jated       Coating of fitting     inserted, screwed, Shaking protection       Material screw connection     Zin die-casting </td <td>Packaging unit</td> <td>1</td>	Packaging unit	1
Operating voltage DC max.     60 V       Operating voltage AC (UL-listed)     30 V       Operating voltage DC (UL-listed)     30 V       Current operating per contact max.     4 A       Installation   Connection     Installation   Connection       Mounting set     M12 x 1       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 KV       Material group (IEC 60664-1)     1       Mechanical data        Contour for corrugated hose     without       Mechanical data        Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Vice die-casting       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic        Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range <td>Electrical data   Supply</td> <td></td>	Electrical data   Supply	
Operating voltage AC (UL-listed)     30 V       Operating voltage AC (UL-listed)     30 V       Current operating per contact max.     4 A       Installation   Connection     Mounting set     M12 x 1       Device protection   Electrical     Additional condition protection degree     inserted, screwed       Pollution Degree     3     Rated surge voltage     1,5 kV       Material group (IEC 60664-1)     I     Image: Strewed     Image: Strewed       Pollution Corrugated hose     without     Image: Strewed     Image: Strewed       Contour for corrugated hose     without     Image: Strewed     Image: Strewed       Coating locking     Nickeled     Image: Strewed     Image: Strewed       Coating locking     Nickeled     Image: Strewed     Image: Strewed       Coating locking     Nickeled     Image: Strewed     Image: Strewed       Material screw connection     Zinc die-casting     Image: Strewed     Image: Strewed       Mounting method     inserted, screwed, Shaking protection     Image: Strewed     Image: Strewed       Mounting fuelt     -25 °C     Coctang of fitting     Image: Strewed, Shaking protection	Operating voltage AC max.	60 V
Operating voltage DC (UL-listed)     30 V       Current operating per contact max.     4 A       Installation   Connection     Mouning set     M12 x 1       Device protection   Electrical     Additional condition protection degree     inserted, screwed       Additional condition protection degree     3     Partice protection   Electrical       Additional condition protection degree     3     Partice protection   Electrical       Additional condition protection degree     3     Partice protection   Electrical       Material group (IEC 60664-1)     I     Partice protection   Electrical       Material group (IEC 60664-1)     I     Partice protection   Electrical       Contor for corrugated hose     without     Partice protection   Electrical       Coating locking     Nickeled     Partice protection   Electrical       Coating of fitting     Inserted, screwed, Shaking protection     Partice protection   Electrical       Material screw connection     Zis cdc <td< td=""><td>Operating voltage DC max.</td><td>60 V</td></td<>	Operating voltage DC max.	60 V
Current operating per contact max.   4 A     Installation   Connection     Mounting set   M12 x 1     Device protection   Electrical     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1,5 kV     Material group (IEC 60664-1)   1     Mechanical data      Contour for corrugated hose   without     Mechanical data      Coating locking   Nickeled     Coating of fitting   nickeled     Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Material screw connection   Zine die-casting     Material screw connection   Zine die-casting     Material screw connection   Zine die-casting     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Qperating temperature min.     Q25 °C      Operating temperature max.   85 °C     Additional condition notes      Important Installation notes   <	Operating voltage AC (UL-listed)	30 V
Installation   Connection       Mounting set     M12 x 1       Device protection   Electrical     inserted, screwed       Additional condition protection degree     isserted, screwed       Pollution Degree     3       Rated surge voltage     1.5 kV       Material group (IEC 60664-1)     1       Mechanical data     inserted, screwed       Motor for corrugated hose     without       Mechanical data   Material data     inserted, screwed       Coating of fitting     nickel plated       Locking metrial     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     screwed, Shaking protection       Poretating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition toregrating and cable quality     depending on cable quality       Important Installation notes     Notex 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.	Operating voltage DC (UL-listed)	30 V
Mounting set     M12 x 1       Device protection   Electrical     inserted, screwed       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (IEC 60664-1)     1       Mechanical data     without       Contour for corrugated hose     without       Coating of fiting     nickele/       Coating of fiting     nickel plated       Locking material     Zinc die-casting       Material screw connection     zinc die-casting       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic        Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature max.     85 °C       Additional condition 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.       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 permi	Current operating per contact max.	4 A
Device protection   Electrical       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (IEC 60664-1)     1       Mechanical data     Inserted, screwed       Contour for corrugated hose     without       Mechanical data   Material data     Voltage       Coating locking     Nickeled       Coating locking     Nickeled       Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Material screw connection     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Srec       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition notes     depending on cable quality       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 bendning radius     Attention: Observe the	Installation   Connection	
Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1,5 kV     Material group (IEC 60664-1)   I     Mechanical data   I     Mechanical data   Without     Mechanical data   Material data   without     Contour for corrugated hose   without     Mechanical data   Material data   Nickeled     Coating locking   Nickeled     Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Sincer degree of Coating on cable quality     Operating temperature main.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     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.     Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessiv	Mounting set	M12 x 1
Pollution Degree   3     Rated surge voltage   1,5 kV     Material group (IEC 60664-1)   1     Mechanical data   Image: Contour for corrugated hose   without     Mechanical data   Image: Contour for corrugated hose   without     Mechanical data   Material data   Image: Contour for corrugated hose   without     Mechanical data   Material data   Coating locking   Nickeled     Coating locking   Nickeled   Image: Coating fitting   nickel plated     Locking material   Zinc die-casting   Image: Coating fitting   Image: Coating fitting     Material screw connection   Zinc die-casting   Image: Coating fitting   Image: Coating fitting     Mounting method   Inserted, screwed, Shaking protection   Image: Coating fitting   Image: Coating fitting     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 excessi	Device protection   Electrical	
Rated surge voltage   1,5 kV     Material group (IEC 60664-1)   I     Mechanical data   without     Contour for corrugated hose   without     Mechanical data   Material data   Vickeled     Coating locking   Nickeled     Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   Mounting method     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Coating on cable quality     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     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.	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)   I     Mechanical data   without     Contour for corrugated hose   without     Mechanical data   Material data   Mechanical data   Material data     Coating locking   Nickeled     Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature min.     -25 °C   Operating temperature max.     Additional condition temperature range   depending on cable quality     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.	Pollution Degree	3
Mechanical data     without       Contour for corrugated hose     without       Mechanical data   Material data     Nickeled       Coating locking     Nickeled       Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Volume       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       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.	Rated surge voltage	1,5 kV
Contour for corrugated hose   without     Mechanical data   Material data   Nickeled     Coating locking   Nickeled     Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   Inserted, screwed, Shaking protection     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   -25 °C     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     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.	Material group (IEC 60664-1)	I
Mechanical data   Material data       Coating locking     Nickeled       Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Coating on cable quality       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       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.	Mechanical data	
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endangered by excessive bending forces.		
Installation   Cable	Note on bending radius	
	Installation   Cable	

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Cable identification	838	
Jacket Color	black	
Type of Certificate	cURus	
Amount stranding	1	
Stranding	2 wires twisted	
Amount stranding (type 2)	1	
Stranding (type 2)	2 Stranded joints twisted	
Cable shielding (type)	copper braid, tinned	
Cable shielding (coverage)	65 %	
Banding	Foil	
Drain wire (cross-section)	22 AWG	
wire arrangement	(white, blue), (black, red)	
Traversing distance (C-track)	5 m	
Cable weigth	63,12 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)	6.9 mm	
Tolerance outer diameter (sheath)	±5%	
Material wire insulation	PE	
Amount wires	2	
Outer diameter insulation	2.1 mm	
Outer diameter tolerance core insulation	±5%	
Shore hardness wire insulation	± 5 %	
	lead-free, CFC-free, halogen-free	
Ingredient freeness wire insulation		
Amount strands (wire)	24 AWG	
Diameter of single wires	24 AWG 24 AWG	
Conductor crosssection (wire)	22 AWG 22 AWG	
Drain wire (cross-section)		
Material conductor wire	copper stranded wire, tinned	
Electrical function wire	Data PE	
Material wire insulation (Data)		
Outer diameter wire insulation (Data)	1,5 mm	
Tolerance outer diameter wire insulation (data)		
Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free	
Amount wires (Data)	2	
Amount strands wire (Data)	19	
Diameter of single wires (Data)	22 AWG	
Conductor crosssection wire (Data)	22 AWG	
Material conductor wire (Data)	copper stranded wire, tinned	
Electrical function wire (data)	Power	
Nominal voltage AC max.	300 V	
Current load capacity (standard)	to DIN VDE 0298-4	
Current load capacity min. wire	4,5 A	
Current load capacity min. Wire (Data)	6 A	
Electrical function wire	Data	
Electrical function wire (data)	Power	
Characteristic impedance	120 Ω ± 10 % @ 1 MHz	
Electrical resistance line constant wire	78 Ω/km	
Electrical resistance coating wire (Data)	54 Ω/km	
AC withstand voltage (wire - wire)	2 kV @ 60 s	
Electric capacitance	40000 pF/km	
AC withstand voltage (wire - shield)	2 kV @ 60 s	
Min. operating temperature (static)	-40 °C	
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Max. operating temperature (fixed)	2° 08
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   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 (installation)	x Outer diameter
Bending radius (fixed)	6 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	1 Mio.
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min

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