

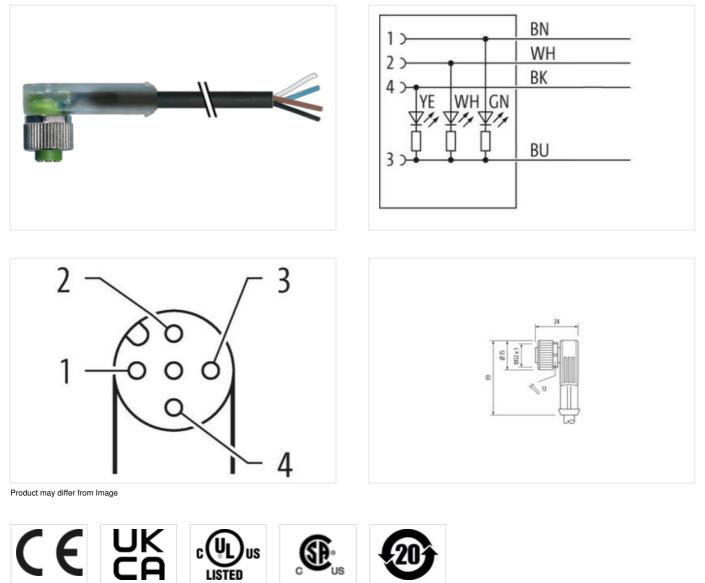
## M12 female 90° A-cod. with cable LED

PUR 4x0.34 bk UL/CSA+robot+drag ch. 20m

Female 90° Zinc die casting, save-cover coated M12, 4-pole 3× LED (PNP) Art-No. 7005 - M12 Lite - (plastic hexagonal screw) 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. Further cable lengths on request.

## Link to Product

Illustration



Cable length

20 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: 2024-05-06

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| Family construction form     M12       Thread     M12 × 1       Database for concugated table (internal (?)     10 mm       Coding     A       Material     PUR       With accoss flats     SW13       Degree of protection (FIN EG 605029)     IP65, IP66K, IP67       Commercial dats     27279218       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS 7.0     27279218       ECLASS 7.0     27279218       ECLASS 7.0     27279218       ECLASS 8.0.0     27090311       ECLASS 8.10.1     27060311       ECLASS 1.0     27060311       ECLASS 1.0     27060313       ECLASS 1.0     27060314       ECLASS 1.0     27060313       ECLASS 1.0     27060314       ECLASS 1.0     27060313       ECLASS 1.0     27060314       ECLASS 1.0     27070370       Packaging unit     1       Electrical data Suppy     2       Operating visiting DC Crase.     30 V       Operating visiting DC Crase.   | Tightening torque                                    | 0,6 Nm  |
|---|--|---|
| Thread     M12 x 1       suitable for corrugated tube (internal (0)     10 mm       Suitable for corrugated tube (internal (0)     A       Material     PUR       With arcoss files     SW13       Darger of protection (EN EC 60529)     IPS: [P66K, IP67       Commercial data     Commercial data       ECLASS 4.0     27273218       ECLASS 5.0     27060311       ETMA 6.0     EclASS 5.0       GTIN     4049879300738       Packaging unit     1       Electrical datal Spapy   | Mounting method                                      | inserted, screwed   |
| Thread     M12 x 1       suitable for corrugated tube (internal (0)     10 mm       Suitable for corrugated tube (internal (0)     A       Material     PUR       With arcoss files     SW13       Darger of protection (EN EC 60529)     IPS: [P66K, IP67       Commercial data     Commercial data       ECLASS 4.0     27273218       ECLASS 5.0     27060311       ETMA 6.0     EclASS 5.0       GTIN     4049879300738       Packaging unit     1       Electrical datal Spapy   | -  | M12   |
| Cading     A       Matarial     PUR       With arcsis filts     SW13       Darge of protection (EN IEC 0023)     IPS, IPSR, IPS7       Commercial data     E       EQLASS 6.0     27273218       EQLASS 6.0     27050311       EQLASS 6.0     27050311       EQLASS 7.0     27273218       EQLASS 7.0     27273218       EQLASS 7.0     27273218       EQLASS 7.0     27050311       EQLASS 7.0     27050311 <td>Thread</td> <td>M12 x 1</td>   | Thread   | M12 x 1   |
| MaterialPURWith across flatsSW13Degree of protection (EN EC 00529)IP65, IP67, IP67Commercial data2727918EGLASS-6.02727918EGLASS-7.02727918EGLASS-7.02727918EGLASS-7.02727918EGLASS-8.12705031EGLASS-8.0.12706031EGLASS-8.10.12706031EGLASS-10.22706031EGLASS-10.32706031EGLASS-10.32706031EGLASS-10.42706031EGLASS-11.42706031EGLASS-12.02606031EGLASS-12.02606031EGLASS-13.12706031EGLASS-14.12706031EGLASS-10.52001655caudoms tailf numbor8544290Correr Agerang voltage DG max.8544290Correr Agerang voltage DG max.90.4Operating voltage DG max.14.4Device protection (Electricat)90.4Device protection (Electricat)90.4Additional Correltion Device (Electricat)90.4Device protection (Electricat)90.4Device protection (Electricat)90.4Additional Correltion Device (Electricat)90.4Device protection (Electricat)90.4Colarly dokting protection (Electricat)90.4Colarly dokting notection (Electricat)90.4Device p  | suitable for corrugated tube (internal $\emptyset$ ) | 10 mm   |
| Material     PUR       Width across fails     SW13       Degree of protection (EN IEC 66529)     IPS, IPBK, IPB7       Connectial data     ECLASS 6.0       ECLASS 6.1     27279218       ECLASS 6.1     27279218       ECLASS 6.1     27279218       ECLASS 6.1     27279218       ECLASS 6.0     27260311       ECLASS 7.0     27060311       ECLASS 7.1.1     2706031       ECLASS 7.2.0     2706031       ECLASS 7.0     2707613       E  |  | A   |
| Degree of protection (EN IEC 60629)     IP66, IP66K, IP67       Commercial data     P2779218       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS 7.0     27279218       ECLASS 8.0     27279218       ECLASS 8.0.1     27260311       ECLASS 8.10.1     27060311       ECLASS 9.10     E0091855       eCLASS 9.10     E0091855       eCLASS 9.10     27060313       ECLECID ECLAST 9.10     P20620738       Packaging unit     1       ELECID ECLAST 9.10     90       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       ELECIDE ECLAST 9.10     Interest, screend       Pollution Degree     30       Matrial Screen vortated max.     4 A   | Material   | PUR   |
| Degree of protection (EN IEC 60629)     IP66, IP66K, IP67       Commercial data     P2779218       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS 7.0     27279218       ECLASS 8.0     27279218       ECLASS 8.0.1     27260311       ECLASS 8.10.1     27060311       ECLASS 9.10     E0091855       eCLASS 9.10     E0091855       eCLASS 9.10     27060313       ECLECID ECLAST 9.10     P20620738       Packaging unit     1       ELECID ECLAST 9.10     90       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       ELECIDE ECLAST 9.10     Interest, screend       Pollution Degree     30       Matrial Screen vortated max.     4 A   | Width across flats                                   | SW13  |
| Commercial data       ECLASS 0.0     27278218       ECLASS 0.0     27060311       ECLASS 10.1     27060311       ECLASS 10.1     27060311       ECLASS 10.1     27060311       ECLASS 10.0     825       CLASS 10.0     27060311       ECLASS 10.0     825       CLASS 10.0     27060311       ECLASS 10.0     825       CLASS 10.0     27060311       ECLASS 10.0     27060311       ECLASS 10.0     27060311       ECLASS 10.0     27060311       ECLASS 10.0     2706031       ETLASS 10.0     2706031       Parkaign unit     1       Edercici data 1000000     200       Operating voltage DC max.     30 V       Operating voltage DC max.     40       Data 1000000     270       Ederici data 1000000     10 × 10   |  | IP65, IP66K, IP67   |
| ECLASS-6.1     27279218       ECLASS-7.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-8.0.1     27060311       ECLASS-1.1     27060311       ECLASS-12.0     270603738       Packaging unit     1       Deperating voltage DC max.     30 V       Operating voltage DC max.     30 V       Current operating voltage DC max.     10 V       Exter indicatin LED     green, white, yellow       Installation ICD     green, white,  |  |   |
| ECLASS-7.0     27278218       ECLASS-8.0     27279218       ECLASS-8.0     27060311       ECLASS-8.1     27060311       ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ETM-5.0     EC001685       customs tariff umber     8544290       GTIN     40487390738       Packaging unit     1       Electrical data   Supply   | ECLASS-6.0   | 27279218  |
| ECLASS-8.0 27279218   ECLASS-9.0 27060311   ECLASS-9.0.1 27060311   ECLASS-11.1 27060311   ECLASS-12.0 27060311   ECLASS-13.0 ECO0185.5   customs tariff number 85444290   GTIN 40487309738   Packaging unit 1   Electrical data   Supply V   Operating voltage DC 24 V   Operating voltage DC max. 30 V   Operating voltage DC max. 00 V   Operating voltage DC max. <td< td=""><td>ECLASS-6.1</td><td>27279218</td></td<>   | ECLASS-6.1   | 27279218  |
| ECLASS-9.0     27060311       ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     ECO01855       ecutoms tarff number     85444200       GTIN     404867309738       Packaging unit     1       Electrical data [ Supply     Coperating voltage DC       Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Diagnostics     Status indication LED       Installation   Connection     Witz x 1       Davice protection   Electrical     Mounting set       Additional condition protection degree     3       Install align optice (Lectored A)     Strewed       Pollution Degree     3       Rated surge voltage     0.8 k/       Coating of Itting     nickel plated       Locking material     Zinc die-casting  | ECLASS-7.0   | 27279218  |
| ECLASS-9.0     27060311       ECLASS-10.1     27060311       ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     ECO01855       ecutoms tarff number     85444200       GTIN     404867309738       Packaging unit     1       Electrical data [ Supply     Coperating voltage DC       Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Diagnostics     Status indication LED       Installation   Connection     Witz x 1       Davice protection   Electrical     Mounting set       Additional condition protection degree     3       Install align optice (Lectored A)     Strewed       Pollution Degree     3       Rated surge voltage     0.8 k/       Coating of Itting     nickel plated       Locking material     Zinc die-casting  |  |   |
| ECLASS-10.1 27060311   ECLASS-12.0 27060311   ECLASS-12.0 27060311   ETIM 5.0 EC001855   cuators tarlf number 85444290   GTIN 404897809738   Packaging unt 1   Etertical data   Supply Economy and target t   | ECLASS-9.0   |   |
| ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ETM-5.0     EC001855       caudoms tariff number     85444290       GTIN     4048879309738       Packaging unit     1       Electrical dal Supply     Electrical dal Supply       Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating per contact max.     4 A       Diagostics     green, white, yellow       Establication LED     green, white, yellow       Installation [Connection     Inserted, screwed       Polution Degree     3       Rated surge voltage     0.8 kV       Material group (IEC 60664-1)     1       Material group (IEC 60664-1)     1       Material group (IEC 60664-1)     2       Cating onking     cate-cover coated       Cating onking     cate-cover coated       Cating onking     cate-cover coated       Cating onking     inserked, screwed, Shaking protection       Material grow ontection   |  |   |
| ECI.ASS-12.0 27060311   ETIM.5.0 EC001855   customs tariff number 85444290   GTIN 404897309738   Packaging unit 1   Electrical data I Supply    Operating voltage DC mix. 18 V   Operating voltage DC mix. 30 V   Operating voltage DC mix. 4A   Diagnostics geen, while, yellow   Installation I Connection Installation I Serveved   Pollution Degree 3   Additional condition protection degree inserted, sorewed   Pollution Degree 3   Rated surge voltage 0.8 kV   Material group (IEC 60664-1) 1   Material group (IEC 60664-1) 1   Interial stree vonnection Zinc die-cas  | ECLASS-11.1  |   |
| ETIM-5.0 EC001855   customs tailf number 85444290   GTIN 404887930738   Packaging unit 1   Electrical data   Supply    Operating voltage DC 24 V   Operating voltage DC max. 30 V   Operating voltage DC max. 30 V   Operating voltage DC max. 30 V   Operating voltage DC max. 4 A   Diagnostics green, white, yellow   Installation ICD green, white, yellow   Installation ICD green, white, yellow   Installation ICD green, white, yellow   Installation ICC M12 x 1   Device protection I Electrical M12 x 1   Additional condition protection degree inserted, screwed   Poliution Degree 3   Rated surge votage 0,8 kV   Material group (IEC 60684-1) I   Material group (IEC 60684-1) I   Material group (IEC 60684-1) Zine die-casting   Material group material Zine die-casting   Material grow concetion Zine die-casting   Material grow concetion  | ECLASS-12.0  |   |
| cusions tariff number     8544280       GTIN     4048879309738       Packaging unit     1       Electrical data   Supply     Image: Comparity of Compari | ETIM-5.0   |   |
| GTIN 4048873309738   Packaging unit 1   Electrical data   Supply   Operating voltage DC 24 V   Operating voltage DC max. 18 V   Operating voltage DC max. 30 V   Operating voltage DC max. 30 V   Operating voltage DC max. 4 A   Diagnostics green, white, yellow   Installation LCD green, white, yellow   Installation I Connection Instruction   Additional condition protection degree inserted, screwed   Pollution Degree 3   Pater and protection of the screwed 0.8 kV   Material group (IEC 60664-1) 1   Mechanical data   Material data Zinc die-casting   Coating locking safe-cover coated   Coating locking inserted, screwed.   Material screw connection Zinc die-casting   Material screw connection Zinc die-casting   Mechanical data   Mounting data Inc die-casting   Mechanical data   Mounting data inserted, screwed. Shaking protection   Porting method inserted, screwed. Shaking protection   Decompositical data   Mounting data Zinc die-casting   Material screw connection 25 °C   Operating remperature min. -25 °C   Operating rem  | customs tariff number                                |   |
| Electrical data   Supply       Operating voltage DC     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V       Operating voltage DC max.     10 V       Corrent operating per contact max.     4 A       Diagnostics     status indication LED     green, white, yellow       Installation   Connection     months     Months       Povice protection   Electrical     M12 x 1     Device protection   Electrical       Additional condition protection degree     inserted, screwed     Pollution Degree     3       Rated surge voltage     0,8 kV     Material group (IEC 60664-1)     I       Mechanical data   Material data     Sale-cover coated     Coating of fitting     nickel plated       Locking method     Zinc die-casting     Zinc die-casting     Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection     Environmental characteristics   Climatic       Device protection method     Inserted, screwed     Site Sover coated  | GTIN   | 4048879309738   |
| Electrical data   Supply       Operating voltage DC     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V       Operating voltage DC max.     10 V       Corrent operating per contact max.     4 A       Diagnostics     status indication LED     green, white, yellow       Installation   Connection     months     Months       Povice protection   Electrical     M12 x 1     Device protection   Electrical       Additional condition protection degree     inserted, screwed     Pollution Degree     3       Rated surge voltage     0,8 kV     Material group (IEC 60664-1)     I       Mechanical data   Material data     Sale-cover coated     Coating of fitting     nickel plated       Locking method     Zinc die-casting     Zinc die-casting     Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection     Environmental characteristics   Climatic       Device protection method     Inserted, screwed     Site Sover coated  |  | 1   |
| Operating voltage DC     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Current operating per contact max.     4 A       Diagnostics     green, white, yellow       Installation I Connection     mounting set       Mounting set     M12 x 1       Device protection I Electrical     sereed, screwed       Pollution Degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     I       Mechanical data I Material data     Zinc die-casting       Coating of fitting     nickel plated       Locking metrial     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data I Mounting data     Isserted, screwed, Shaking protection       Locking metrial     Sine die-casting       Material screw connection     Zinc die-casting       Mechanical data I Mounting data     Isserted, screwed, Shaking protection       Devicemmental characteristis   Climatic     Comperating temperature min.       Operatin   |  |   |
| Operating voltage DC min.   18 V     Operating voltage DC max.   30 V     Operating voltage DC max. (UL-listed)   30 V     Current operating per contact max.   4 A     Diagnostics   Status indication LED     Status indication LED   green, white, yellow     Installation   Connection   Mounting set     Mounting set   M12 x 1     Device protection   Electrical   Mounting ceree     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0,8 kV     Material data   Material data     Coating locking   safe-cover coated     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   Operating temperature min.     -25 °C   Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   depending on cable quality   |  | 24 V  |
| Operating voltage DC max.     30 V       Operating voltage DC max. (UL-listed)     30 V       Current operating per contact max.     4 A       Diagnostics     green, white, yellow       Installation I Connection     green, white, yellow       Installation I Connection     M12 x 1       Device protection   Electrical     sreend, screwed       Additional condition protection degree     3       Rated surge voltage     0.8 kV       Material group (IEC 60664-1)     1       Mechanical data   Material data     safe-cover coated       Coating locking     safe-cover coated       Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Unc die-casting       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality  |  |   |
| Operating voltage DC max. (UL-listed)     30 V       Current operating per contact max.     4 A       Diagnostics     green, white, yellow       Installation   Connection     green, white, yellow       Installation   Connection     M12 x 1       Device protection   Electrical     M12 x 1       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     1       Mechanical data   Material data     Coating of fitting       Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Environmental characteristics   Climatic       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality  |  |   |
| Current operating per contact max. 4 A   Diagnostics   Status indication LED green, white, yellow   Installation   Connection Mulx x 1   Device protection   Electrical Mulx x 1   Additional condition protection degree inserted, screwed   Pollution Degree 3   Rated surge voltage 0.8 kV   Material group (IEC 60664-1) 1   Metchanical data   Material data Safe-cover coated   Coating of fitting nickel plated   Locking material Zinc die-casting   Material screw connection Zinc die-casting   Methanical data   Mounting data Inserted, screwed, Shaking protection   Device protection = Environmental characteristics   Climatic Sinc die-casting   Methanical data   Mounting data Inserted, screwed, Shaking protection   Environmental characteristics   Climatic Go   Operating temperature min. -25 °C   Operating temperature max. 85 °C   Additional condition temperature range depending on cable quality   Important installation notes Hereini go no cable quality   |  |   |
| Status indication LED   green, white, yellow     installation   Connection   M12 x 1     Device protection   Electrical   inserted, screwed     Additional condition protection degree   isserted, screwed     Pollution Degree   3     Rated surge voltage   0.8 kV     Material group (IEC 60664-1)   1     Mechanical data   Material data   safe-cover coated     Coating locking   safe-cover coated     Coating locking   inckel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Sc     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable qualify     Important installation notes   scele qualify  | Current operating per contact max.                   |   |
| Installation   Connection     Mult x 1       Device protection   Electrical     M12 x 1       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     0.8 kV       Material group (IEC 60664-1)     1       Mechanical data   Material data     Inseled.cover coated       Coating locking     safe-cover coated       Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Mechanical data   Mounting data     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Coating temperature min.       -25 °C     Operating temperature max.       Additional condition temperature range     depending on cable quality       Important installation notes     depending on cable quality  | Diagnostics  |   |
| Mounting set   M12 x 1     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)   1     Mechanical data   Material data   safe-cover coated     Coating locking   safe-cover coated     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   -25 °C     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Hounting condition temperature range  | Status indication LED                                | green, white, yellow  |
| Device protection   Electrical       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     1       Mechanical data   Material data     Kethanical data   Material data       Coating locking     safe-cover coated       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     25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Si °C   | Installation   Connection                            |   |
| Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   1     Mechanical data   Material data   | Mounting set   | M12 x 1   |
| Pollution Degree   3     Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   I     Mechanical data   Material data   I     Coating locking   safe-cover coated     Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   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   Important installation notes   | Device protection   Electrical                       |   |
| Rated surge voltage   0,8 kV     Material group (IEC 60664-1)   I     Mechanical data   Material data   Safe-cover coated     Coating locking   safe-cover coated     Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Inserted, screwed, Shaking protection     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Safe C   | Additional condition protection degree               | inserted, screwed   |
| Material group (IEC 60664-1)   I     Mechanical data   Material data   safe-cover coated     Coating locking   safe-cover coated     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   -25 °C     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Important installation notes   | Pollution Degree                                     | 3   |
| Mechanical data   Material data     Coating locking   safe-cover coated     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   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality  | Rated surge voltage                                  | 0,8 kV  |
| Coating locking   safe-cover coated     Coating of fitting   nickel plated     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Mechanical data   Mounting data   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  | Material group (IEC 60664-1)                         | I   |
| 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  | Mechanical data   Material data                      |   |
| 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   | Coating locking                                      | safe-cover coated   |
| 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   | Coating of fitting                                   | nickel plated   |
| Mechanical data   Mounting data     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics   Climatic     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   -25 °C   | Locking material                                     | 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 range   depending on cable quality   | Material screw connection                            | Zinc die-casting  |
| Environmental characteristics   Climatic     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes  | Mechanical data   Mounting data                      |   |
| Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   -25 °C  | Mounting method                                      | inserted, screwed, Shaking protection   |
| Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   | Environmental characteristics   Climatic             |   |
| Additional condition temperature range   depending on cable quality     Important installation notes  | Operating temperature min.                           | -25 °C  |
| Important installation notes  | Operating temperature max.                           | 85 °C   |
|   | Additional condition temperature range               | depending on cable quality  |
| Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   | Important installation notes                         |   |
|   | Note on strain relief                                | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. |

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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                              |  |
| Cable identification                              | 654  |
| Cable Type  | 5  |
| Jacket Color                                      | black  |
| Type of Certificate                               | cURus  |
| Amount stranding                                  | 1  |
| Stranding   | 4 wires twisted  |
| wire arrangement                                  | brown, black, blue, white                                      |
| Traversing distance (C-track)                     | 5 m @ 25 °C   horizontal                                       |
| Cable weigth                                      | 36,3 g/m   |
| Material jacket                                   | PUR  |
| Shore hardness jacket                             | 58 ± 3 Shore D   |
| Freedom from ingredients (jacket)                 | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Outer-diameter (jacket)                           | 4,7 mm   |
| Tolerance outer diameter (sheath)                 | ±5%  |
| Material wire insulation                          | PP   |
| Amount wires                                      | 4  |
| Outer diameter insulation                         | 1,25 mm  |
| Outer diameter tolerance core insulation          | ±5%  |
| Shore hardness wire insulation                    | 74 ± 3 Shore D   |
| Ingredient freeness wire insulation               | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount strands (wire)                             | 42   |
| Diameter of single wires                          | 0,1 mm   |
| Conductor crosssection (wire)                     | 0,34 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                   | 4,8 A  |
| Electrical resistance line constant wire          | 60 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 ℃  |
| 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                                    | Good, application-related testing   DIN EN 60811-404           |
| Bending radius (fixed)                            | 5 x Outer diameter   |
| Bending radius (dynamic)                          | 10 x Outer diameter  |
| Travel speed (C-track)                            | 10 Mio. @ 25 °C  |
| No. of torsion cycles                             | 1 Mio.   |
| Torsion stress                                    | ± 360 °/m  |
| Torsion speed                                     | 35 cycles/min  |
|   |  |

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