

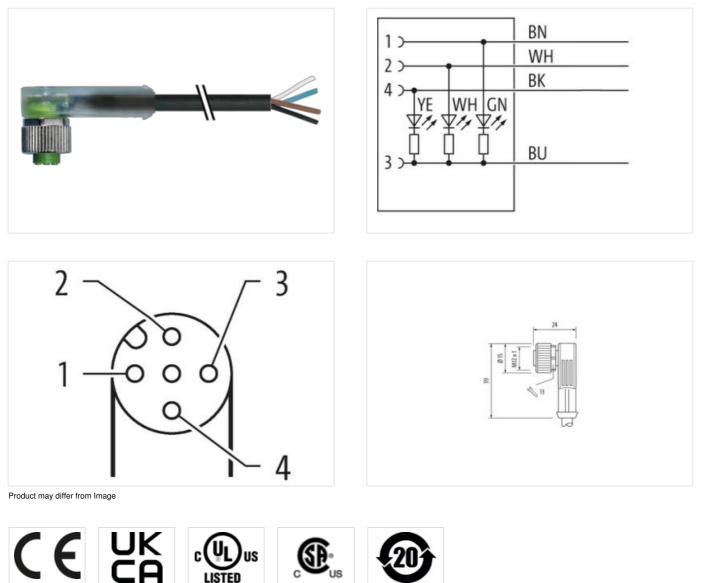
## M12 female 90° A-cod. with cable LED

PUR 4x0.34 bk UL/CSA+robot+drag ch. 5m

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

5 m

## Side 1

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-17

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Family construction form         M12           Thread         M12 x 1           Builde for construction form         M12 x 1           Builde for construction form         N           Cacking         A           Maurial         PUR           Wilth across flats         SW13           Degree of protection (EN ICE 0020)         IPDS, IPD6K, IPD7           Commercial data         ECLASS-A.0           27279218         ECLASS-A.0           ECLASS-A.0         27279218           ECLASS-A.0         27279218           ECLASS-A.0         27060311           ECLASS-1.0         27040031           ECLASS-1.0         2001           Operating voltage DC min.         18           Electrical data [Supply         24 V           Operating voltage DC max.         0.0 V	Tightening torque	0,6 Nm
Thread         M12 x 1           sullable for corrugated tube (internal O)         10 mm           sullable for corrugated tube (internal O)         A           Material         PUR           Witch across fails         SW13           Degree of protection (EN IEC 60520)         IPE6, IPE6K, IPE67           Commercial data         227278218           ECLASS 6.0         227278218           ECLASS 7.0         227278218           ECLASS 6.0         227278218           ECLASS 7.0         227278218           ECLASS 7.0         227278218           ECLASS 7.0         227278218           ECLASS 7.0         27050311           ECLASS 7.0         270500311           ECLASS 7.0         27050311           ECLASS 7.0         27050311           ECLASS 7.0         27050311           ECLASS 7.0         27050311           ECLASS 7.0         2707000311           Elextrist 0 tube of tube	Mounting method	inserted, screwed
subilable for corrugabed tube (informal Ø)10 mmCadingAMarinalPURWith access fintsSW13Degree of protection (EN EC 00252)IP65, IP67, IP67Commercial dataEEQLASS 5.027279218EQLASS 5.027279218EQLASS 5.027279218EQLASS 5.027279218EQLASS 5.027050311EQLASS 5.027050311EQLASS 5.027050311EQLASS 5.027050311EQLASS 5.1.127060311EQLASS 5.227060311EQLASS 5.227050311EQLASS 5.227050311Equation unter544290Grain go unter194252510Packagning unter194Operating voltage DC max.30 VOperating voltage DC max.30 VExperision voltage DC max.30 VExperision voltage DC max.30 VExperision voltage DC12 tExperision voltage DC12 t	Family construction form	M12
CadingAMaterialPURWith across failsSW13Degree of protection (EN EC 60529)IP65, IP66K, IP67Commercial dataEECASS 6.027279218ECASS 7.027279218ECASS 7.027279218ECASS 7.027279218ECASS 7.027279218ECASS 7.027279218ECASS 7.027279218ECASS 7.027279218ECASS 7.027260311ECASS 7.027060311ECASS 7.027060311ECASS 7.027060313ECASS 7.027060313ECASS 7.027060313ECASS 7.027060313ECASS 7.027060313ECASS 7.027060313ECASS 7.027060313ECASS 7.027060314ECASS 7.027060313ECASS 7.027060313ECASS 7.027060314ECASS 7.027060314ECASS 7.027060314ECASS 7.027060314ECASS 7.027070218ECASS 7.027070218 <td>Thread</td> <td>M12 x 1</td>	Thread	M12 x 1
Material         PUR           With across flats         SW13           Degree of protection (IN UE 060529)         IPS, IPSK (IPS7           Commercial data            EQLASS 6.0         27279218           EQLASS 7.0         27279218           EQLASS 7.0         27279218           EQLASS 7.0         27279218           EQLASS 7.0         27270218           EQLASS 7.0         27200311           EQLASS 7.0         27000311           EQLASS 7.0         20001155           eutoms latiff number         5544220           CRIN         404879202510           Packagn unit         1           Electrical data Suppy         0           Operating voltage DC max.         30 V           Current operating voltage DC max.         30 V           Current operating voltage DC max.         10 V	suitable for corrugated tube (internal Ø)	10 mm
Widh across flats         SW13           Degree of protection (EN IEC 60529)         PES, IP6K (IP67           Commercial data         PES, IP6K (IP67           Commercial data         PES, IP6K (IP67           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 5.0         27279218           ECLASS 5.0         27260311           ECLASS 5.10.1         27060311           ECLASS 5.10         27060311           ECLASS 5.10         27060311           EVEX.SS 10.0         2644230           Cortinal faiff number         8544230           Deakaging onlin         1           Electical data [ Suppiy         2           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC max.         4 A           Degree or other max.         4 A           Degree or other max.         4 A           Degree or other max.         4 A <td>Coding</td> <td>A</td>	Coding	A
Degree of protection (EN IEC 60529)         IP66, IP60K, IP67           Connectial data         YZ779218           ECLASS 6.0         YZ779218           ECLASS 7.0         YZ779218           ECLASS 7.0         YZ779218           ECLASS 7.0         YZ7060311           ECLASS 7.0         YZ7060311           ECLASS 7.0         YZ060311           Commer Staff umber         SE44220           GTIN         M 49487202510           Operating voltage DC         24 V           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         4 A           Degree woltage Max         4 A           Degree woltage Max         4 A <td>Material</td> <td>PUR</td>	Material	PUR
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27060311           ECLASS-8.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060316           Constant and mumber         85444290           Constant and mumber         85444290           Constant and mumber         85444290           Constant and mumber         1           Electrical data   Supply         2           Parating voltage DC min.         18 V           Operating voltage DC max.         4 A           Degrading voltage DC max.         4 A           Degr	Width across flats	SW13
ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-7.0     27279218       ECLASS-7.0     27060311       ECLASS-8.0.1     27060311       ECLASS-10.1     27060311       ECLASS-11     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-11     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-13.0     EC001655       ECLASS-14.0     4048979202510       Packaign unit     1       ECENTICI CLASS POPU     24 V       Operating voltage DC     24 V       Operating voltage DC max.     18 V       Operating voltage DC max.     18 V       Operating voltage DC max.     10 V       Statis indication LED     green voltage, servered       Politage atter     10 S       Statis indication LED     greented, servered       Politage atter     10 S<	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
ECLASS 7.0         27278218           ECLASS 8.0         27797218           ECLASS 8.0         27060311           ECLASS 8.10.1         27060311           ECLASS 10.1         27060311           ECLASS 10.1         27060311           ECLASS 10.1         27060311           ECLASS 12.0         27060311           ECLASS 12.0         27060311           ETMA 0         EC001855           sustoms tatiff number         8544290           GTIN         404827322510           Packaging unit         1           Electical data   Supply         Operating voltage DC           Operating voltage DC max.         18 V           Operating voltage DC max.         01 V           Current operating voltage DC max.         4 A           Dageotis         Statis indication LED           Statis indication LED         green, white, yellow           Installation   Connection         Insteld, screwed           Polution Degree         is 4420           Polution Degree         3           Rated surge voltage         0.8 VV           Material group (LEC 60664-1)         I           Mechanical data   Material data         Znoe (Lecisangin           Material screw con	Commercial data	
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           Electrical data   Supply         30           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Depresing voltage DC max.         10 V           Eurent operating voltage DC max.         10 V           Eurent operating voltage DC max.         10 V           Eurent operating voltage DC max.         10 V           Depresing voltage DC max.         10 V           Devi	ECLASS-6.0	27279218
ECLASS 9.0         27060311           ECLASS 10.1         27060311           ECLASS 11.1         27060311           ECLASS 11.1         27060311           ECLASS 12.0         27060311           ECLASS 11.1         27060311           ECLASS 12.0         27060311           ECLASS 11.0         27060311           ECLASS 11.0         ECO01855           ECLASS 11.1         4048079202510           Packaging unit         1           Electrical data [ Supply         U           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         4 A           Degroatics         30 V           Current operating voltage DC max.         4 A           Diagnoatics         green, while, yellow           Installation   Connection         Mit 2 x 1           Device protection   Electrical         Mit 2 x 1           Device protection   Electrical         Serewed           Pollution Degree         3           Rated surge voltage         0.8 k/           Material group (EC 6064-1)         1           Mechanical data   Meterial data         Zinc die-casting           Cating of tifting	ECLASS-7.0	27279218
EQLASS-10.1         27680311           EQLASS 11.1         27680311           EQLASS 12.0         27680311           ECILASS 12.0         27680311           ETIM-5.0         EC001855           custors tarlf number         85444290           GTIN         4048879202510           Packaging unit         1           Etertical data [ Supply            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         green, white, yellow           Installation   Connection            Device protection   Electrical            Additional condition protection degree         instarted, screwed           Pollution Degree         3           Rated surge voltage         0.8 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Zinc cie-casting           Costing Ofting         ickel plated           Costing Otting         ickel plated           Costing Otting         ickel plated           Cop	ECLASS-8.0	27279218
EGLASS-11.1         27060311           EGLASS-12.0         2001855           Eductical dial Supply         4048879202510           Packaging unit         1           Edectical dial Supply         Edectical dial Supply           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC max.         4 A           Diagostics         green, while, yellow           Installation ICD         green, while, yellow           Installation ICD Connection         Inserted, screwed           Pollution Degree         3           Rated surge voltage         0.8 kV           Material group (ICE 60864:1)         1           Mechanical data   Material data         Zinc die-casting           Gating of fitting         nickel plated           Coating of fitting         Zinc die-casting <t< td=""><td>ECLASS-9.0</td><td>27060311</td></t<>	ECLASS-9.0	27060311
ECLASS-12.0     27060311       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048678202510       Packaging unt     1       Etertical data   Supply     U       Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Diagnostics     Status indication LED       green, white, yellow     Installation   Connection       Matification I fleetrical     Additional condition protection degree       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     I       Mechanical data   Material data     Zinc die-casting       Material group (IEC 60664-1)     I       Machanical data   Material data     Zinc die-casting       Material group (IEC 60664-1)     I       Machanical data   Material data     Zinc die-casting       Material group (IEC 60664-1)<	ECLASS-10.1	27060311
ETIM-5.0     EC001855       customs tariff number     85444290       GTIM     4048879202510       Packaging unit     1       Electrical data   Supply        Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Diagnostics     green, white, yellow       Installation I CD     green, white, yellow       Installation I Connection     M12 x 1       Device protection   Electrical     M12 x 1       Polition Degree     3       Rated surge voltage     0.8 kV       Material group (IEC 60664-1)     1	ECLASS-11.1	27060311
customs tariff number         85444290           GTIN         4048879202510           Packaging unit         1           Electrical data [Supply         Image: Comparity of Supple Comparity	ECLASS-12.0	27060311
CTIN     4048879202510       Packaging unit     1       Electrical dia   Supply     24 V       Operating voltage DC     24 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 LED     green, white, yellow       Installation ICD     green, white, yellow       Installation ICD     green, white, yellow       Installation ICD     more than the period of the per	ETIM-5.0	
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.       14 A         Diagnostics       30 V         Status indication LED       green, white, yellow         Installation   Connection       Installation   Connection         Mounting set       M12 x 1         Device protection   Electrical       Additional condition protection degree         Additional condition protection degree       inserted, screwed         Pollutoring voltage       0.8 kV         Material group (IEC 60664-1)       1         Mechanical data   Material data       Coating of fitting         Coating of fitting       nickel plated         Locking matrial       Zinc die-casting         Mechanical data   Mounting data       Ince decasting         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatu       25 ° C         Operating temperature min.       -25 ° C         Operating temperature min.       -25 ° C         Operating temperature min.       5 ° C     <	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         Device DC max.       14 A         Diagnostics       yeen, white, yellow         Installation I Connection       green, white, yellow         Installation I Connection       M12 x 1         Device protection   Electrical       M12 x 1         Additional condition protectrion degree       inserted, screwed         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60684-1)       1         Material grou	GTIN	
Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Operating per contact max.         4 A           Diagnostics         status indication LED           Status indication LED         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 (EC 60664-1)         1           Mechanical data   Material data         Zinc die-casting           Coating locking         safe-cover coated           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         inserted, screwed, Shaking protection           Mechanical data   Mounting data         inserted, screwed, Shaking protection           Mounting method         inserted, screwed, Shaking protection           Envicomenetal characteri	Packaging unit	1
Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Diagnostics         Stuss indication LED           Stuss indication LED         green, white, yellow           Installation   Connection         Mounting set           Mounting set         M12 x 1           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0.8 kV           Material group (IEC 60664-1)         I           Mechanical data   Material data         Coating of fitting           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	Electrical data   Supply	
Operating voltage DC max.     30 V       Operating voltage DC max. (UL-listed)     30 V       Current operating per contact max.     4 A       Diagnostics     green, while, yellow       Installation I Connection     green, while, yellow       Installation I 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)     I       Mechanical data   Material data     Scover coated       Coating locking     safe-cover coated       Coating locking     cile-casting       Material group (IEC 60664-1)     I       I     Mechanical data   Material data       Coating locking     safe-cover coated       Coating locking     inckel plated       Locking material     Zinc die-casting       Methanical data   Mounting data     Mounting method       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Coating itemperature min.       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	Operating voltage DC	24 V
Operating voltage DC max. (UL-listed)         30 V           Current operating per contact max.         4 A           Diagnostics         green, while, yellow           Installation ICD         green, while, yellow           Installation ICOnnection         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)         I           Mechanical data   Material data         Coating locking           Coating locking         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           Environmental characteristics   Climatic         Coating of coating           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Vision sci in	Operating voltage DC min.	18 V
Current operating per contact max.       4 A         Diagnostics         Status indication LED       green, white, yellow         Installation   Connection       Mul2 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         Material screw connection       Sine sted, screwed, Shaking protection         Environmental characteristics   Climatic       Coating of fitting         Operating temperature min.       -25 °C         Operating temperature max.       85 °G         Additional condition temperature range       depending on cable quality         Important installation notes       Not of circ in in it		
Diagnostics           Status indication LED         green, white, yellow           Installation   Connection         Installation   Connection           Bounting set         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 of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Material screw connection         Zinc die-casting           Material screw connection         Serewed, Shaking protection           Environmental characteristics   Climatic         Sec           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation notes         Material finition finition		
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       inserted, screwed         Coating locking       safe-cover coated         Coating locking       inckel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Material screw connection       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       V         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Sinc die cable quality	Current operating per contact max.	4 A
Installation   Connection           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         Inserted, screwed           Coating locking         safe-cover coated           Coating locking         inserted, screwed, Polluted           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Methanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         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         Nounting on table 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       Note on the final condition reture 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	Installation   Connection	
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       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       safet, screwed, Shaking protection         Environmental characteristics   Climatic       Solution         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Not on the partice	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       Operating temperature min.         -25 °C       Operating temperature max.         A5 °C       Additional condition temperature range         depending on cable quality       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       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	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	Pollution Degree	3
Mechanical data   Material data         Coating locking       safe-cover coated         Coating of fitting       nickel plated         Locking material       Zinc die-casting         Locking 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         Additional condition temperature range       depending on cable quality         Important installation notes       Note and for the second se	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       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       -25 °C	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       Operating temperature min.         -25 °C       Operating temperature max.         Additional condition temperature range       depending on cable quality         Important installation notes       Important installation notes	Mechanical data   Material data	
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       Operating temperature min.         -25 °C       Operating temperature max.         Additional condition temperature range       depending on cable quality         Important installation notes       Important installation notes	Coating locking	safe-cover coated
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       Operating temperature min.         -25 °C       Operating temperature max.         Additional condition temperature range       depending on cable quality         Important installation notes       Important installation notes	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	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         Important installation notes	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       Very Particular Sector Sect	Mechanical data   Mounting data	
Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	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	
Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes	Operating temperature min.	-25 °C
Additional condition temperature range depending on cable quality Important installation notes	Operating temperature max.	
Important installation notes	Additional condition temperature range	
Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.		Destant the connectors by witchle measures from marketical lands, and by the second stability
		Frotect 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
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
Traversing distance (C-track)	5 m @ 25 °C   horizontal
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 °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	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
-1	

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