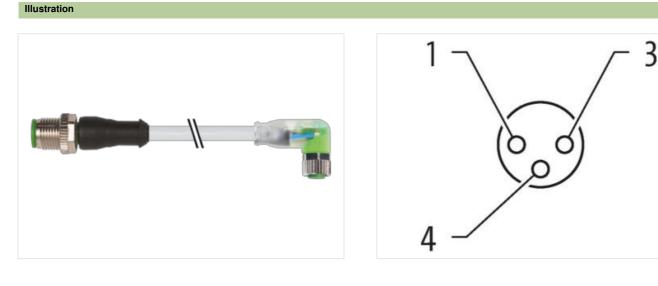


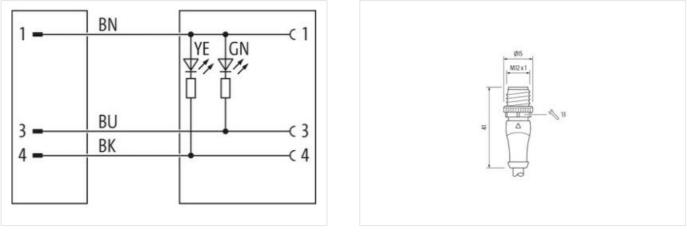
## M12 male 0° / M8 female 90° A-cod. LED

PUR 3x0.25 gy UL/CSA+drag ch. 3.5m

Male straight – female 90° M12 – M8, 3-pole LED (yellow/green) 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.

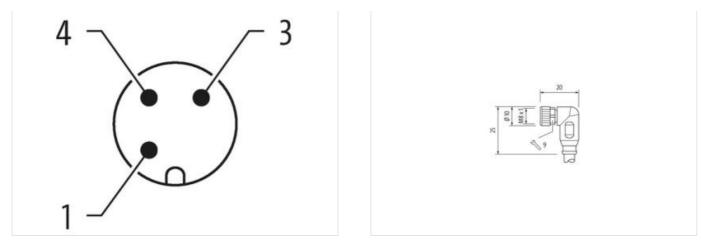
## Link to Product





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: 2024-04-30





Product may differ from Image



| Cable length   | 3,5 m             |
|--|-------------------|
| Side 1   |                   |
| Tightening torque                                    | 0,6 Nm            |
| Mounting method                                      | inserted, screwed |
| Coating contact                                      | gold plated       |
| Family construction form                             | M12               |
| Thread   | M12 x 1           |
| suitable for corrugated tube (internal Ø)            | 10 mm             |
| Material contact                                     | Copper alloy      |
| Material   | PUR               |
| No. of poles   | 3                 |
| Width across flats                                   | SW13              |
| Degree of protection (EN IEC 60529)                  | IP66K, IP67       |
| Side 2   |                   |
| Tightening torque                                    | 0,4 Nm            |
| Mounting method                                      | inserted, screwed |
| Coating contact                                      | gold plated       |
| Family construction form                             | M8                |
| Thread   | M8 x 1            |
| suitable for corrugated tube (internal $\emptyset$ ) | 6,5 mm            |
| Material contact                                     | Copper alloy      |
| Material   | PUR               |
| No. of poles   | 3                 |
| Width across flats                                   | SW9               |
| Degree of protection (EN IEC 60529)                  | IP66K, IP67       |
| Commercial data                                      |                   |
| ECLASS-6.0   | 27279218          |
| ECLASS-7.0   | 27279218          |
| ECLASS-8.0   | 27279218          |
| ECLASS-9.0   | 27060311          |
| ECLASS-10.1  | 27060311          |
| ECLASS-11.1  | 27060311          |

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| IT MA 5.0     ECON1055       CT W     4544580       CT W     4448879720649       Packaging unit     1       Electrical data is Supput     Electrical data is Supput       Operating voltage DC max     18 V       Operating voltage DC max     30 V       Operating voltage OC max     4 A       Current consumption entation     5 mA       Desposition     Feast Addition Conting Conting Peasition Pea | ECLASS-12.0                              | 27060311   |
|---|--|--|
| GTIM 4048679720649   Packaging unit 1   Electrical attal [Supply] Electrical attal [Supply]   Operating voltage DC max. 39 V   Operating voltage DC max. 4 A   Current operating voltage to Cmax. 4 A   Current operating voltage to Cmax. 4 A   Current operating voltage to Cmax. 5 mA   Data indication LED green, voltow   Device protection   Electrical Additional condition protection degree   Additional condition protection degree 3   Rated support (EG 6064-1) 1   Hechnical data   Moting data Motional condition protection degree   Material data FMA   Cataling dolling Nickel d   Cataling dolling Nickel d   Cataling dolling Inserted, screwed, Shaking protection   Hechnical data   Mounting data FMA   Current operating voltage 26 °C   Corporating woltage dolling on cable quality Inserted, screwed, Shaking protection   Hechnical data   Mounting data Motion gata   Mounting mathe Protect the connectors by suitable measures from mechanical loads, s.g. by the uaage of cable ites.<  | ETIM-5.0                                 | EC001855   |
| Packaging unit     1       Electrical data [Supply     Image: Comparing voltage DC       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Control consumplicate DC max.     4 A       Conventing voltage DC max.     5 mA       Diagnostics     green, yotow       Status findcation LED     green, yotow       Device protection [Dectrical     green, yotow       Packfortion protection degree     inserted, screwed       Polution Degree     3       Rated surge voltage DC max.     1 Noteled       Rated surge voltage DC max.     3 Noteled       Catality tocking protection degree     inserted, screwed       Polution Degree     3       Rated surge voltage DC max.     2 Noteled       Catality tocking     Yot discasting       Material pasket     Pold       Locking material     Zinc discasting       Material pasket     Pold  | customs tariff number                    | 85444290   |
| Electrical data   Supply       Operating voltage DG     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     10 V       Operating voltage DC max.     10 V       Operating voltage DC max.     10 V       Operating voltage protection (Lisciel)     30 V       Current operating representate max.     4 A       Current operating representation (Lisciel)     green, voltaw       Batis indication LED     green, voltaw       Device protection   Electrical     seveed       Addional condition protection degree     iserted, sorewed       Polizion Degree     3       Rated zarge voltage     0.8 k/V       Material group (JEC 606641)     1       Material group (JEC 606642)     1       Material group (JEC 606642)     Contarg Gating of Mino       Material group worther deformation     To de casting       Material group worther defore  | GTIN                                     | 4048879720649  |
| Electrical data   Supply       Operating voltage DG     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     10 V       Operating voltage DC max.     10 V       Operating voltage DC max.     10 V       Operating voltage protection (Lisciel)     30 V       Current operating representate max.     4 A       Current operating representation (Lisciel)     green, voltaw       Batis indication LED     green, voltaw       Device protection   Electrical     seveed       Addional condition protection degree     iserted, sorewed       Polizion Degree     3       Rated zarge voltage     0.8 k/V       Material group (JEC 606641)     1       Material group (JEC 606642)     1       Material group (JEC 606642)     Contarg Gating of Mino       Material group worther deformation     To de casting       Material group worther defore  | Packaging unit                           | 1  |
| Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     5 mA       Current consumption max.     5 mA       Diagonative     seconsumption max.       Stalas indication LDD     groon, yoltow       Device protection   Electrical     misored, acrewed       Additional condition protoction degree     inserted, acrewed       Politation Degree     3       Relade aurge voltage     0.8 kV       Material group, IEC 60664-1)     I       Mechanical data     finiserted, acrewed       Politation Degree     acrewed       Material group, IEC 60664-10     I       Nechanical data     finiserted, acrewed       Material group, IEC 60664-10     I       Mechanical data     finiserted, acrewed, Shaking protection       Casting drifting     nikele plated       Material group iEC 60664-10     I       Mechanical data   Mounting data     inserted, acrewed, Shaking protection       Material group iEC 60664-10     Zinc dia-casting       Material growerention     Zinc dia-casting  |  |  |
| Operating voltage DC min.     18 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Current consumption max.     5 mA       Diagnostic     Final Voltage DC max.       Diagnostic     green, yellow       Device protection   Electrical     Green dog voltage       Addronal condition protection degree     3       Rated surge voltage     0.0 N/V       Material group (ECe 80664-1)     1       Material group (ECE 80666-1)     2  |  | 24 V   |
| Operating voltage DC max.     30 V       Operating voltage DC max. (U.L. letted)     30 V       Current operating or contact max.     5 mA       Diagnostics     smA       Diagnostics     green, yellow       Description max.     5 mA       Diagnostics     green, yellow       Description protection   Electrical     meanted, scrowed       Additional condition protection degree     inserted, scrowed       Polution Degree     3       Rated surge voltage     0.8 kV       Material group (EC 60664-1)     1       Mechanical datal Material data     Coding loching       Coding loching     Nickel ad       Cading loching     Nickel ad       Material grasket     FKM       Material grasket     FKM       Material grasket     FKM       Material grasket     FKM       Deparating temperature min.     -25 °C       Operating temperature min.     -25 °C       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Cadional condition temperature may     depending on cable quality   |  |  |
| Operating port on tack max.     4 A       Current consumption max.     5 mA       Diagnostics     Status indication LED     green, yollow       Device protection Electrical     Additional condition protection degree     3       Additional condition protection degree     3     Reade surge voltage     3.8 kV       Mater of protection degree     3     Reade surge voltage     3.8 kV       Material group (EC 60664.1)     1     I     Mechanical data Material data       Coating offning     Nickeled     Coating offning     Nickeled       Coating offning     Nickeled     Coating offning     Mickel deade       Coating off fitting     nickel plated     Material group (EC 60664.1)     I       Methanical data Material data     Tote di- coasing     Material group (EC 60664.1)     I       Methanical data Material data     Tote di- coasing     Material group (EC 60664.1)     I       Methanical data Mounting data     Tote di- coasing     Material group (EC 60664.1)     I       Mounting method     inserted, screwed, Shaking protection     D     D       Operating temperature max     85 °C     Coating of (EC 606   |  |  |
| Current operating per contax max.     4 A       Current operating per contax     5 mA       Diagnostics     Status indication LED     green, yellow       Device protection   Electrical     Additional condition protection degree     inserted, screwed       Pollution Dagree     3     Rated aurge votage     0.8 kV       Material group (IEC 60664-1)     1     Mechanical data [ Material data]       Mechanical data [ Material data]     Mechanical data [ Material data]     Mechanical data [ Material data]       Coating of fitting     nickel plated     Mechanical data [ Material data]     Mechanical data [ Mounting data]       Mechanical data [ Mounting data]     Zinc die-casting     Mechanical data [ Mounting data]     Mechanical data [ Mounting data]       Mounting method     inserted, screwed, Shaking protection     Environmental characteristics [ Climatic       Operating temperature max.     45 °C     Addition temperature max.     45 °C       Addition relation network     Brotect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable files.       Note on starin relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable files.       Additionar relief     250     Gale data [ Moun   |  |  |
| Current consumption max.     5 mA       Dispositics     Status indication LED     green, yellow       Device protection [Electrical     Additional condition protection degree     isserted, screwed       Pollution Degree     3     Reted surge vortage     0.8 kV       Material group (EC 60664-1)     1     Internet degree vortage     0.8 kV       Methanical data   Material data     Coating of thing     Nickledd     Coating of thing     Nickledd       Coating of thing     nickle plated     Material group (EC 60664-1)     Coating of thing     Nickledd       Coating of thing     nickle plated     Material group (EC 60664-1)     Coating of thing     Nickledd       Coating of thing     nickle plated     Material group (EC 60664-1)     Coating of thing     Nickledd       Material group (EC 60664-1)     Zinc die-casting     Material group (EC 60664-1)     Coating of thing     Nickledd       Material group (EC 60664-1)     Zinc die-casting     Material group (EC 60664-1)     Coating of thing data     Nickledd     Nickledd     Coating of thing data     Nickledd     Coating of thing data     Nickledd     Coating of thing data     Nickledd     Coating of thing  |  |  |
| Diagnostics       Status indication LED     green, yellow       Device protection   Electrical       Additional condition protection degree     isserted, screwed       Patieut surge voltage     0,8 kV       Material surge (DE 60684-1)     1       Mechanical data   Material data     Condition Condition (DE 60684-1)       Conting Costing     Nickela Plated       Costing Costing     Nickela Plated       Costing Costing     Nickela Plated       Material surge voltage     Zinc die-casting       Material gasket     FKM       Lacking material     Zinc die-casting       Material surge voltage     Gine die-casting       Material surge voltage material     Zinc die-casting       Material surge voltage material     Since die-casting       Mater   |  |  |
| Statu indication LED     green, yellow       Device protection [Electrical     inserted, screwed       Addinona condition protection degree     3       Bated surge voltage     0,8 kV       Material group (IEC 6064-1)     1       Mechanical data [Material data     Catalig locking       Catalig locking     Nickeled       Coating locking     Nickeled       Material socke connection     Zino dia-casting       Munting methon     Inserted. screwed, Shaking protection       Environmental characteristics [Climatic     Goperating temperature max.       Adforola condition temperature rang.     46pending on cable quality       Motor anstain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Not on  |  |  |
| Device protection   Electrical       Additional condition protection degree     inserted. screwed       Pollution Degree     3       Rated surge voltage     0.8 kV       Material group (IEC 60684-1)     1       Mechanical data   Material data     Coading of King       Coading of King     Nickeled       Coading of King     Nickeled       Coading of King     Nickeled       Material group (IEC 60684-1)     Zinc die-casting       Material group material     Zinc die-casting       Material group material     Zinc die-casting       Material group material     Zinc die-casting       Mounting material     Zinc die-casting       Mounting method     inserted. screwed, Shaking protection       Environmental characteristics [ Climatic     Coperating temperature max.       Operating temperature max.     25 °C °C       Operating temperature max.     65 °C       Addition temperature max.     65 °C       Note on barian relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tess.       Note on barian relief     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M6)       Insellation (Cabb   | -  | areen vellow   |
| Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     0,8 kV       Material group (Ex 60664-1)     1       Mechanical data   Material data        Coating of fifting     nickel plated       Coating of fifting     nickel plated       Material gasket     FKM       Locking material     Zinc die-casting       Material group (Ex 60664-1)     Inserted, screwed, Shaking protection       Mechanical data   Mounting data     Zinc die-casting       Material screwe connection     Zinc die-casting       Material screwe connection     Sincere-casting       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics [ Climatic     Coording on cable quality       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Inperturb Installation notes     Note on stain rollef       Note on barding radius     Aftention: Observe the permissible bending radii when laying cables, as the IP protection diase can be endangered by excessive bending radii when laying cables, as the IP protection diase can be endangered by excessive bending radii when laying cables, as the IP protecti  |  | groon, yonow   |
| Poliution Degree     3       Rated surge voltage     0.8 kV       Material group (EC 60664-1)     1       Mechanical datal (Material data)     I       Coating locking     Nickeled       Coating of fitting     nickel plated       Material gasket     FKM       Locking material     Zinc die-casting       Material gasket     FKM       Locking material     Sinc die-casting       Material gasket     FKM       Locking material     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Cimatic       Operating temperature max.     25 °C       Operating temperature max.     45 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Nateriagered by excessive dating forees.       Contomity     Protect the  | •  |  |
| Rated surge voltage     0.8 kV       Material group (IEC 60668-1)     I       Mechanical data   Material data     Coating locking     Nickelad       Coating locking     Nickelad     Coating locking     Nickelad       Coating locking     Nickelad     Zinc die-casting     Material grave voltage     Zinc die-casting       Material grave wormection     Zinc die-casting     Material serve voltage     Mechanical data   Mounting data       Mounting method     inserted, screwed, Shaking protection     Environmental characteristics   Climatic       Operating temperature min.     -25 °C     Operating temperature main.     -25 °C       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     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes.       Commity     Environ: Observe the parmissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Cable dentification     230     Cable dentification     230       Cable dentification     230     Cable dentifica  | i  | · · · · · · · · · · · · · · · · · · ·  |
| Material group (IEC 80664-1)     I       Mechanical data   Material data     Coating of liting     Nickeled       Coating of liting     nickel plated     Material gasket     FKM       Locking material     Zinc die-casiing     Material gasket     FKM       Mechanical data   Mounting data     Mounting method     inserted, screwed, Shaking protection       Mechanical data   Mounting data     Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C     -25 °C       Operating temperature max.     85 °C     Additional condition temperature max.     85 °C       Additional condition temperature max.     85 °C     -25 °C     -25 °C       Operating temperature max.     85 °C     -25 °C     -25 °C       Additional condition temperature may     depending on cable quality     -25 °C       Important installation notes     Attention: Observe the pormissible bending radii when laying cables, as the IP protection class can be ending forces.       Note on bending radius     Attention: Observe they pormissible bending forces.     -20       Cable divitification   |  |  |
| Mechanical data   Material data       Coaling looking     Nickeled       Coaling of fitting     nickel plated       Material gasket     FKM       Locking matrial     Zinc die-casting       Material screw connection     Zinc die-casting       Methanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     StreC       Note on bancing radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     StreC       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Zinc       Cable identification     230       Cable identification     230       Cable Identification     230       Cable Identification     230       Type of Carlificate     URUs       Armount stranding     1       Stranding     wires twisted   |  | U,8 KV   |
| Coating coking     Nickeled       Coating of fitting     nickel plated       Material gasket     FKM       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Material screw connection     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Coperating temperature min.       Coperating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Installation codes       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: Coberve the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Installation   Cable       Cable identification     230       Cable identification     230       Cable identification     230       Amount stranding     1       Stranding </td <td></td> <td></td>   |  |  |
| Coating of fitting     nickel plated       Material gasket     FKM       Locking material     Zinc die-casting       Material screw connection     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.       Additional condition temperature max.     85 °C       Additional condition temperature range     deponding 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.       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending forces.       Conformity     IDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     230       Cable identification     230       Cable identification     230       Cable identification     230       Cable identificate     cURus       Anount stranding     1       Str  | Mechanical data   Material data          |  |
| Material gasket     FKM       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.     85 °C     Additional condition 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.       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), DIN EN 61076-2-114 (M8)     Installation   Cable       Cable ryop     3     Jacket Color     gray       Type of Certificate     cURus     Amount stranding     1       Attending     3 wires twisted     wire arrangement     brown, black, blue       Gable ryop     3 stranding     1     Stranding     Gable ryoe       Yee of Certificate     PUR     Shore A <td< td=""><td>Coating locking</td><td>Nickeled</td></td<>   | Coating locking                          | Nickeled   |
| 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 may.     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 endrangered by excessive bending forces.       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     230       Cable Type     3       Jacket Color     gray       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     26,4 g/m <t< td=""><td>Coating of fitting</td><td>nickel plated</td></t<>   | Coating of fitting                       | nickel plated  |
| Material screw connection   Zinc die-casting     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   Note on stain relief     Note on stain 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.     Contormity   Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)     Installation   Cable   Cable identification   230     Cable Identification   230   Cable Identification     230   Gable Identificate   CURus     Amount stranding   1   Stranding     3 viers twisted   wire arrangement   brown, black, blue     Cable weigh   26.4 g/m   Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A   Freedom Irnee, Silicone-free   Gute-diameter (jacke   | Material gasket                          | FKM  |
| Mechanical data   Mounting data       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Coperating temperature min.     -25 °C       Operating temperature max.     85 °C     Additional condition temperature range     depending on cable quality       Important installation notes     Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Product standard     DIN EN 61076-2-114 (M8)       Installation   Cable     Cable identification     230       Cable identification     230     Cable Type       Anount stranding     1     Stranding       1     Stranding     3 wires twisted       wire arrangement     brown, black, blue     Cable weigth       Cable weigth     26.4 g/m     Material jacket       PUR     Shore hardness jacket     90 ± 5 Shore A  | 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     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     230     Cable identification       Cable identification     230     Cable Identification       Type of Certificate     CURus     Amount stranding       Aftending     1     Stranding     1       Stranding     3 wires twisted     Stranding     3 wires twisted       wire arrangement     brown, black, blue     Cable weigth     26,4 g/m       Material jacket     PUR     Shore hardness jacket   | 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     Important installation notes       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     Cable right       Cable Type     3       Jacket Color     gray       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     26.4 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   | 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   Important installation notes     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.     Conformity   Product standard     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)     Installation   Cable   230     Cable identification   230     Cable Type   3     Jacket Color   gray     Type of Certificate   cURus     Amount stranding   1     Stranding   3 wires twisted     wire arrangement   brown, black, blue     Cable weigth   26,4 g/m     Material jacket   PUR     Shore hardness jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free     Outer-diameter (jacket)   4,1 mm   | Mounting method                          | inserted, screwed, Shaking protection  |
| 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.     Conformity   Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)     Installation   Cable   Cable identification   230     Cable identification   230   Cable Type     Jacket Color   gray   Type of Certificate   cURus     Amount stranding   1   Stranding   Stranding   Stwires twisted     wire arrangement   brown, black, blue   Cable weigth   26.4 g/m     Material jacket   PUR   Shore A   Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer-diameter (jacket)   4,1 mm   mm   4.1 mm   Material jacket   Material jacket  | Environmental characteristics   Climatic |  |
| Additional condition temperature range   depending on cable quality     Important installation notes     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.     Conformity   Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)     Installation   Cable     Cable identification   230     Cable Identification   230     Cable ISType   3     Jacket Color   gray     Type of Certificate   cURus     Amount stranding   1     Stranding   3 wires twisted     wire arrangement   brown, black, blue     Cable weigth   26,4 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)   4,1 mm  | Operating temperature min.               | -25 °C   |
| Important installation notesNote on strain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on bending radiusAttention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.ConformityProduct standardProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   Cable230Cable identification230Cable Type3Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)4,1 mm   | Operating temperature max.               | 85 °C  |
| Note on strain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on bending radiusAttention: Observe the permissible bending radii when laying cables, as the IP protection class can be<br>endangered by excessive bending forces.ConformityProduct standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification230Cable identification230Cable ColorgrayType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mm   | Additional condition temperature range   | depending on cable quality   |
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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), DIN EN 61076-2-114 (M8)     Installation   Cable   Cable identification   230     Cable identification   230   Cable Color   gray     Type of Certificate   cURus   Amount stranding   1     Stranding   3 wires twisted   brown, black, blue   Cable weigth   26,4 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)   4,1 mm  | •  | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties     |
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| wire arrangement brown, black, blue   Cable weigth 26,4 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) 4,1 mm  | -  | · · · · · · · · · · · · · · · · · · ·  |
| Cable weigth   26,4 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)   4,1 mm  | -  |  |
| 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) 4,1 mm  |  |  |
| Shore hardness jacket 90 ± 5 Shore A   Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Outer-diameter (jacket) 4,1 mm  |  | -  |
| Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mm  |  |  |
| Outer-diameter (jacket) 4,1 mm  |  |  |
|   |  |  |
| I olerance outer diameter (sheath) ±5%  |  |  |
|   | I olerance outer diameter (sheath)       | ± 5 %  |

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| Material wire insulation                          | PP   |
|---|--|
| Amount wires                                      | 3  |
| Outer diameter insulation                         | 1,25 mm  |
| Outer diameter tolerance core insulation          | ±5%  |
| Shore hardness wire insulation                    | 70 ± 5 Shore D   |
| Ingredient freeness wire insulation               | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount strands (wire)                             | 32   |
| Diameter of single wires                          | 0,1 mm   |
| Conductor crosssection (wire)                     | 0,25 mm <sup>2</sup>   |
| Material conductor wire                           | Stranded copper wire, bare                                     |
| Conductor type (wire)                             | strand class 6   |
| Traversing distance (C-track)                     | 10 m @ 25 °C   horizontal                                      |
| Nominal voltage AC max.                           | 300 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4  |
| Current load capacity min. wire                   | 4,5 A  |
| Electrical resistance line constant wire          | 79 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                              |
| 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 (fixed)                            | 5 x Outer diameter   |
| Bending radius (dynamic)                          | 10 x Outer diameter  |
| No. of bending cycles (C-track)                   | 10 Mio. @ 25 °C  |
| No. of torsion cycles                             | 2 Mio.   |
| Torsion speed                                     | 35 cycles/min  |
| Torsion stress                                    | ± 180 °/m  |

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