

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

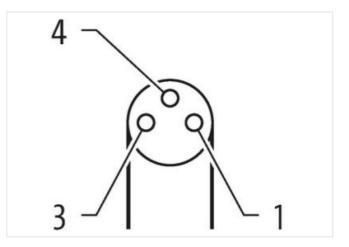
PUR 3x0.25 bk UL/CSA+robot+drag ch. 4m

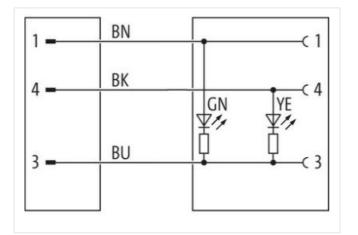
Male straight – female 90° Zinc die casting, save-cover coated M12 – M8, 3-pole LED (yellow/green) Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

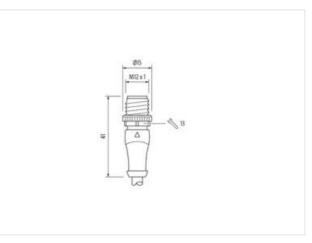
## Link to Product











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: 2024-06-23





Product may differ from Image



Cable length	4 m
Side 1	
Tightening torque	0.6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
	M12
Family construction form	
Thread	M12 x 1
suitable for corrugated tube (internal $\emptyset$ )	10 mm
Gender	male
Cable outlet	straight
Coding	A
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
Gender	female
suitable for corrugated tube (internal $\emptyset$ )	6,5 mm
Cable outlet	angled
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	3
Width across flats	SW9
Degree of protection (EN IEC 60529)	IP66K, IP67
Commercial data	

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: 2024-06-23



ECLASS 7.0     2279218       ECLASS 8.0     2279218       ECLASS 8.0     22790218       ECLASS 8.10     27903011       ECLASS 8.11     27903011       ECLASS 8.12.0     27904011       ECLASS 8.12.0     27904011       ECLASS 8.12.0     27904011       ECLASS 8.13     4644290       GTM     464827417879       Packaging unit     1       ECENTIS 6.0     24 V       Operating voltage DC min.     18 V       Operating voltage DC ma.     30 V       Operating voltage DC ma.     5 mA       Diagnetice     30 V       Corrent consumption max.     5 mA       Diagnetice     30 V       Corrent consumption max.     5 mA       Diagnetice     3       Battas indication LDD     groom, vyllow       Device protection forgeto     inserted, screwed       Publicion protection dogreto	ECLASS-6.0	27279218
ECLASS-8.0     2792916       ECLASS-8.0     27000311       ECLASS-10.1     27000311       ECLASS-11.1     27000311       ECLASS-12.0     27050311       ECLASS-12.0     27050311       ECLASS-12.0     27050311       ETM-5.0     ECO01955       Cacksr LaT     404870417679       Packaging unit     1       Edectical and Supply     Control total Supply       Operating voltage DC Omx.     90 V       Operating voltage DC		07070010
ECLASS 9.0     2000311       ECLASS-10.1     2000311       ECLASS-11.1     2000311       ECLASS-12.0     2000311       Contraint collega Contract     40482/901/201       Packaging unit     1       ECCASS     90 V       Coparing voltage DC max.     90 V       Current consumption max.     5 mA       Disporation     90 V       Current consumption max.     5 mA       Disporation     90 V       Current consumption max.     5 mA       Disporation Collega Demax.     90 V       Current consumption max.     5 mA       Disporation Collega Demax.     90 V       Current consumption max.     5 mA       Disporatinsolinal Collega Demax.		
ECLASS-10.1     27000311       ECLASS-12.0     27000311       ECLASS-12.0     27000311       ETIM-6.0     EC001855       cations tarfit mumber     8544290       GTIN     4048/79/17679       Packaging unit     1       Electrical dist  Spoply     Constraint mumber       Operating voltage DC max.     30 V       Corrent consumption max.     5 mA       Diagnostics     Status indication LED       Status indication LED     greent, voltaw       Davide protection   Electrical     AA       Additional condition protection l genetic     AA       Catalign diftage voltage     0.8 k/V       Material group (LE GOBG4-1)     1       Material discup (LE GOBG4-1)     1       Material science (GOBG4-1)     1       Material group (LE GOBG4-1)     1       Material science (GOBG4-1)     1       Material science (GOBG4-1)     1       Material science (GOBG4-1)     1 </td <td></td> <td></td>		
ECLASS-11.1     27090311       ECLASS-12.0     27000311       ECLASS-12.0     27000311       ECLASS-12.0     EC001955       cuators strift number     8544290       GTIN     4048279417079       Packaging unit     1       Electrical data [Supply     Coparating voltage DC min.       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Current consumption max.     5 mA       Diagnostic     Environmental formation.       Bardes string voltage DC min.     18 V       Operating voltage DC max.     5 mA       Diagnostic     Environmental formation.       Bardes string voltage DC max.     5 mA       Diagnostic     Environmental formation.       Bardes string voltage     0 kiV       Material group (EC 050664-1)     I       Material group (EC 050664-1)		
ECL4SS12.0 27660311   ETM-S.0 EC001355   calsons tarff umber 8544290   G11N 4048079317879   Packaging unit 1   Electrical data   Supply    Operating voltage DC max. 30 V   Operating voltage DC max. 18 V   Operating voltage DC max. 00 V   Content operating per contact max. 5 FA   Diagnostics    Status indication LED green. yellow   Device protection   Electrical    Additional consumption max. 5 FA   Diagnostic    Status indication LED green. yellow   Device protection   Electrical    Additional consumption max. 5 FA   Diagnostic    Status indication LED green. yellow   Device protection   Electrical    Additional consultin protection degree 3   Rated starge voltage 0.8 kV   Material group (EG 6060+1) 1   Device protection   Electrical    Material group (EG 6060+1) 1   Device protectin   Electric		
ETM 6.0     EC00185       castoms tariff number     65444290       GTIN     4048271679       Packagn unt     1       Exercical data   Suppy     Coperating voltage DC       Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     5 mA       Diagnostics     Current consumption max.       Current consumption max.     5 mA       Device protection Electrical     Current consumption max.       Additional condition protection degree     inserted, sorewed       Patual organitize     3       Reade Surge voltage     0,8 kV       Material group (ICC 60664-1)     1       Mechanical data   Material data     Courter consumption       Couling boding     safe cover coated       Couling boding aboxt     FKM		
customs tariff number     85444290       GTN     40.488734175730       Packange unit     1       Electrical data   Supply     Operating voltage DC max.       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     4 A       Current operating per contact max.     5 mA       Diagnostics     Status indication LED       Status indication LED     green. yellow       Device protection   Electrical     Additional condition protection degree       Insurt operating voltage DC 66664-1)     1       Mechanical and Liston indication degree     insurt operating voltage DC 66664-1)       Mechanical data [ Matchi data     Costing locking       Costing locking     safe-cover costed       Costing locking     riske i operating       Material gaskel     FKM       Locking material     Zm cole-casting       Material gaskel     FKM       Locking material     Zm cole-casting       Material gaskel     FKM       Locking material     Zm cole-casting       Material gaskel     FKM       Locki		
GTIN 4048879417679   Packaging unit 1   Electrical dal Sopphy Electrical dal Sopphy   Operating voltage DC 24 V   Operating voltage DC max. 30 V   Operating voltage DC max. 30 V   Current operating voltage DC max. 5 mA   Diagnostic Status indication LED   Status indication LED green, yellow   Device protection Flectrical Additional constition protection degree   Instantial constition protection degree 3 Rates surge voltage   Pollution Degree 3   Rates surge voltage 0.8 kV   Material group (EC 60684-1) 1   Hechanical data I Material data Cance costing   Coating loching safe-cover coated   Coating loching safe-cover coated   Coating loching safe-cover coated   Coating loching inserted, screwed, Shaking protection   Material group (EC 60684-1) 1   Dechange codate (EC 60684-1) 1		
Packaging unit     1       Electrical data [Suppy		
Electrical data   Supply       Operating voltage DC min.     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V       Operating voltage DC max.     18 V       Operating voltage DC max.     18 V       Current operating voltage DC max.     14 A       Current operating per contact max.     4 A       Current operating per contact max.     5 mA       Diagnostics     Status indication LD     green, yellow       Device protection [Electrical     Device protection degree     inserted, screwed       Polluton Dagree     3     Rated surge voltage     0.8 kV       Material group (EC 00664-1)     1     Mechanical data   Material data     Coating locking     safe-cover coated       Coating locking     asfe-cover coated     Coating locking     safe-cover coated       Coating locking     nickel plated     Material gasket     FKM       Locking material     Zinc dic-casting     Material gasket     FKM       Locking material     Zinc dic-casting     Material gasket     FKM       Locking material     Zinc dic-casting     Material gasket <t< td=""><td></td><td></td></t<>		
Operating voltage DC     24 V       Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Operating voltage DC max.     5 M       Operating voltage DC max.     5 M       Diagnostics     5 mA       Status indication LED     green, yellow       Davice protection [Electrical     4 A       Additional condition protection degree     inserted, screwed       Politoin Degree     3       Rated surge voltage     0,8 kV       Material group (EE 60684-1)     1       Mechanical data   Material data     Coating of fitting       Coating of fitting     nickel plated       Material group (EE 60684-1)     1       Mechanical data   Material data     Coating of fitting       Coating of fitting     nickel plated       Material gaskot     FKM       Locking material     Zine die casting       Material gaskot     FKM       Locking method     inserde, screwed Shaking protection       Material screw connection     Zine die casting       Material gaskot     FKM       Locking material     Sinedie casting </td <td></td> <td>-</td>		-
Operating voltage DC min.     18 V       Operating voltage DC max.     30 V       Current operating per contact max.     4 A       Current consumption max.     5 mA       Diagnostics     Status indication LED       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 locking       Coating locking     safe-cover coated       Coating locking     safe-cover coated       Coating of fitting     nickel plated       Material gaset     FKM       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Material gaset     FKM       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Material screw connection     Zinc die-casting       Material screw connection     Zinc die-casting       Matering screw connection     Zinc die-casting <td></td> <td>24 V</td>		24 V
Operating voltage DC max.     30 V       Operating voltage DC max.     30 V       Current operating per contact max.     4 A       Current consumption max.     5 mA       Diagnostics     Status indication LED       green, yellow     Device protection [Electrical       Additional condition protection degree     inserted, screwed       Polutor protection [Electrical     Additional condition protection degree       Atted surge voltage     0,8 kV       Material group (EC 60684-1)     1       Mechanical data   Material data     Coating of fitting       Coating of fitting     nickel plated       Material group (EC 60684-1)     1       Mechanical data   Material data     Coating of fitting       Material group (EC 60684-1)     1       Mechanical data   Material data     Zinc die-casting       Material group contacting     Sale cover coated       Coating of fitting     nickel plated       Material group contacting in seried. Screwed, Shaking protection     Environmental charactoristics   Climatic       Operating represerve connection     Zinc die-casting       Mounting method     inserted. screwed, Shaking protection		
Operating voltage DC max. (UL-listed)     30 V       Current operating per contact max.     4 A       Current operating per contact max.     5 mA       Diagnostics     Status indication LED     green, yellow       Device protection   Electrical     Additional condition protection degree     isented, screwed       Pollution Degree     3     Rated surge voltage     0.8 kV       Material group (EE 06084-1)     1     Image: Contact max.     Material group (EE 06084-1)       Coating of fitting     nickel plated     Material group (EE 06084-1)     I       Mechanical data [Material data     Coating of fitting     nickel plated     Material gasket       Material gasket     FKM     Image: Coating of fitting     nickel plated     Material gasket       Mounting method     inserted, screwed, Shaking protection     Zinc die-casting     Mounting data       Mounting temperature min.     -25 °C     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C     Operating temperature min.     -25 °C       Operating temperature min.     -25 °C     Operating temperature min.     -25 °C       Operating temperature min.		
Current operating per contact max.   4 A     Current consumption max.   5 mA     Diagnostics   Final Addition LED     Status indication LED   green, yellow     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)   1     Mechanical data [Material data   Coating of thing     Coating of thing   nickel plated     Coating of thing   nickel plated     Material group (IEC 60664-1)   I     Mechanical data [Material data   Coating of thing     Coating of thing   nickel plated     Material gasket   FKM     Locking material   Zinc die-casting     Methalical data [Mounting data   Inserted, screwed, Shaking protection     Environmental characteristics [Climatic   Operating remperature max.     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Note on starin relief     Note on shording radius <td< td=""><td></td><td></td></td<>		
Current consumption max.     5 mA       Diagnostics     Status indication LED     green, yellow       Device protection [ Electrical     Additional condition protection degree     inserted, screwed       Pollution Degree     3     Rated surge voltage     0,6 kV       Material group (EC 60664-1)     1     Inserted, screwed     Inserted, screwed       Coating looking     safe-cover coated     Coating looking     safe-cover coated       Coating of titing     nickel piated     Material gasket     FKM       Locking material     Zinc die-casting     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Coating temperature max.     85 °C       Operating temperature max.     85 °C     Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality     Important installation notes       Important installation notes     Attention: Coservo the permissible bending radii when laying cables, as the IP protection class can be endingered by excessive bending forces.       Conternity     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable files.       Note on strain relief     DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8) <td></td> <td></td>		
Diagnostics       Status indication LED     green, yellow       Device protection [Electrical		
Status indication LED     green, yellow       Device protection [Electrical     inserted, screwed       Additional condition protection degree     3       Rated surge voltage     0,8 kV       Material group (IEC 60664-1)     1       Mechanical data [Material data     Coating of filing       Coating of filing     nickel plated       Material gasket     FKM       Locking material     Zinc die-casting       Material gasket     FKM       Locking material     Zinc die-casting       Mechanical data [Mouting data     Inserted, screwed, Shaking protection       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.       -25 °C     Querating temperature min.       -04 °C     Additional condition temperature min.       -05 °C     Querating temperature manage       Note on st		-
Device protection   Electrical       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     0.8 kV       Material group (EC 6068-1)     1       Mechanical data   Material data     Coating locking       Coating locking     safe-cover coated       Coating of fitting     nickel paterd       Material group (EC 6068-1)     I       Mechanical data   Material data     Coating of fitting       Coating locking     safe-cover coated       Coating of fitting     nickel paterd       Material gasket     FKM       Locking material     Zinc die-casting       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed. Shaking protection       Environmental characteristics   Climatic     Operating temperature min.       Operating temperature max.     85 °C       Additional condition temperature may     depending on cable quality       Important installation notes     Attention: Observe the permissible bending radii when laying cables, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical load		
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 locking     Coating locking   safe-cover coated     Coating locking   inker plated     Material gasket   FKM     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   Operating temperature min.     Operating temperature min.   -25 °C     Operating temperature range   depending on cable quality     Important Installation notes   Additional condition temperature range     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   DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)     Installation   Cable   writer arangement   brown, black, blue     Gable Identification   650   Gable Identification     Gable Identification   65		groun, yenow
Pollution Degree   3     Rated surge voltage   0.8 kV     Material group (IEC 60664-1)   I     Mechanical data [Material data   Coating locking     safe-cover coated   Coating locking     Coating locking   safe-cover coated     Coating locking   nickel plated     Material gasket   FKM     Locking material   Zinc die-casting     Material screw connection   Zinc die-casting     Material screw connection   Zinc die-casting     Mounting mathod   inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature main.     -25 °C   Operating temperature max.     As 5° C   Additional condition temperature range     depending on cable quality   Important installation notes     Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.     Contornity   Product standard     Installation (Standard)   DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)     Installation (Standard)   DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)     Instalation (Standard)   DIN EN 61076-2-101 (M12), DIN EN		insected paraword
Rated surge voltage 0.8 kV   Material group (IEC 60664-1) I   Mechanical data [ Material data Coating of fitting   Coating of fitting nickel plated   Material gasket FKM   Locking material Zinc die-casting   Mechanical data [ Mounting data Material screw connection   Material screw connection Zinc die-casting   Mechanical data [ Mounting data Mounting method   Mounting method inserted, screwed, Shaking protection   Environmental characteristics [ Climatic Operating temperature min.   Operating temperature max. 85 °C   Additional condition temperature may. 85 °C   Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.   Contormity Imovers.   Product standard DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)   Installation   Cable 5   wire arrangement brown, black, blue   Cable identification 650   Cable identification 650   Cable identification 650   Cable identificate cURus   Amount s		
Material group (IEC 60664-1)   I     Mechanical data   Material data   Coating looking   safe-cover coated     Coating of fitting   nickel plated     Material gasket   FKM     Looking material   Zinc die-casting     Meterial screw connection   Zinc die-casting     Mechanical data   Mounting data   Mounting method     Mounting method   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   Attention: Observe the permissible bending radi when laying cables, as the IP protection class can be endangered by excessive bending forces.     Conformity   Product standard     Product standard   DIN EN 61076-2-104 (M8)     Installation   Cable   So     wire arrangement   brown, black, blue     Cable Type   5     Gable Identification   650     Cable Type   5     Gable Type   5     Gable Identification   650     Cable Type   5     Gable Type <t< td=""><td></td><td></td></t<>		
Mechanical data   Material data       Coating locking     safe-cover coated       Coating of fitting     nickel plated       Material gasket     FKM       Locking material     Zinc die-casting       Material sorew connection     Zinc die-casting       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.       -25 °C     Operating temperature max.       Abs °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 lies.       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contormity     Environ:       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)       Installation   Cable     wire arrangement       wire arrangement     brown, black, blue       Cable Type     5       Gable Type     5       Jacket Color     black		
Coating locking     safe-cover coated       Coating of fitting     nickel plated       Material gasket     FKM       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     Operating temperature min.       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Note on strain relief       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Installation   Cable       wire arrangement     brown, black, blue       Cable Type     5       Gable Type<		1
Coating of fitting   nickel plated     Material gasket   FKM     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   Operating temperature min.     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.     Conformity   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.     Conformity   Product standard     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)     Installation   Cable   wire arrangement     wire arrangement   brown, black, blue     Cable Type   5     Jacket Color   black     Type of Certificate   cUIRus     Amount s	· ·	
Material gasket     FKM       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     Operating temperature min.       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.       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 61076-2-104 (M8)       Installation   Cable     wire arrangement       wire arrangement     brown, black, blue       Cable Type     5       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1		
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 range   depending on cable quality     Important installation notes   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.     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     Installation   Cable   UIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)     Installation   Cable   Solution     wrie arrangement   brown, black, blue     Cable identification   650     Cable identification   5     Jacket Color   black     Type of Certificate   cURus     Amount stranding   1		
Material screw connection     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -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 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 61076-2-104 (M8)       Installation   Cable     View arrangement     brown, black, blue       Cable identification     650     5       Cable Color     black     Type of Certificate     cURus       Amount stranding     1     Current     Current		
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   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   Important installation   Cable     wire arrangement   brown, black, blue     Cable identification   650     Cable Zolor   black     Type of Certificate   cURus     Amount stranding   1		-
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     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)     Installation   Cable   wire arrangement     wire arrangement   brown, black, blue     Cable identification   650     Cable identification   650     Cable Type   5     Jacket Color   black     Type of Certificate   cURus     Amount stranding   1	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   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.     Conformity   Product standard     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-104 (M8)     Installation   Cable   wire arrangement     wire arrangement   brown, black, blue     Cable identification   650     Cable Zolor   black     Type of Certificate   cURus     Amount stranding   1	Mechanical data   Mounting data	
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Type of Certificate cURus   Amount stranding 1		
Amount stranding 1		
Stranding 3 wires twisted		
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wire arrangement	brown, black, blue
Cable weigth	26,4 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)	4,3 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	3
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)	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
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
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min

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