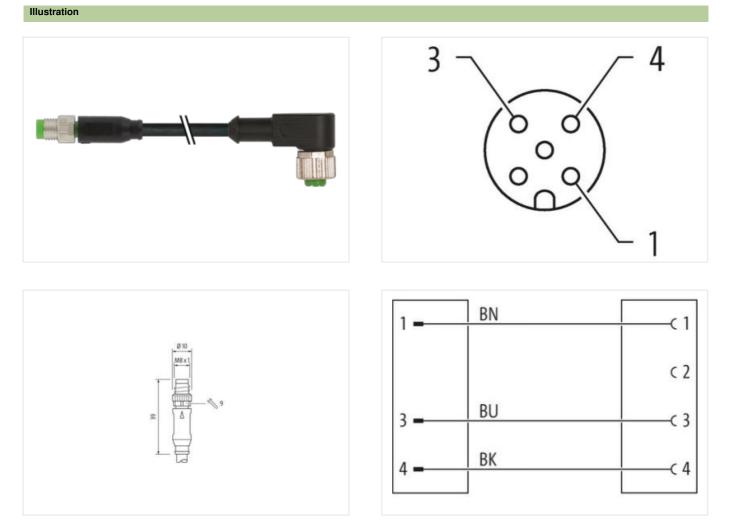


## M8 male 0° / M12 female 90° A-cod.

PUR 3x0.25 bk UL/CSA+robot+drag ch. 1m

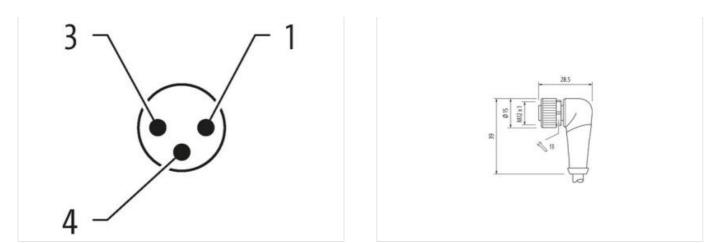
Male straight – female 90° Zinc die casting, save-cover coated M8 – M12, 3-pole M12, A-coded Art-No. 7005 - M12/M8 Lite - (plastic hexagonal screw) on request Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## 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: 2024-05-02





Product may differ from Image



Cable length	1 m
014.4	
Side 1	
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 Ø)	6,5 mm
Coding	A
Material contact	Copper alloy
No. of poles	3
Width across flats	SW9
Side 2	
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
Coding	A
Material contact	Copper alloy
No. of poles	3
Width across flats	SW13
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311

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outsmith number     6444200       GTN     4046075414016       Packaging unit     1       Electrical data [Supply     50 V       Operating voltage AC max.     60 V       Operating voltage AC (UL listed)     30 V       Additionation DED     PA       Additionation DED     9       Additionation Operation AC (UL listed)     30 V       Additionation Operation AC (UL listed)     30 V       Coality Distring     Sin Adving voltage AC (UL listed)       Additionation Oblica (Darge Cont	ETIM-5.0	EC001855
OTIN 4048978414016   Packagn unh 1   Packagn unh 1   Coprating voltage AC max. 50 V   Oparating voltage AC inclusted 30 V   Oparating voltage AC (Li-lated) 30 V   Deparating voltage AC (Li-lated) 90 V   Oparating voltage AC (Li-lated) 90 V   Device protection (EN IEC 80329) IP65, IP67, IP68, IP68, IP67, IP68, IP68, IP67, IP68, IP67, IP68, IP66, IP66, IP60, I		
Electrical data   Supply       Operating voltage DC max.     60 V       Operating voltage DC max.     60 V       Operating voltage DC (UL-listed)     30 V       Operating rotage DC (UL-listed)     30 V       Concerning energy on transmission of the transmission of transmis		
Operating voltage AC max.     50 V       Operating voltage AC (U.I.steel)     30 V       Operating voltage AC (U.I.steel)     30 V       Current operating per contact max.     4 A       Dispression	Packaging unit	1
Operating voltage DC max.     60 V       Operating voltage DC (UL-listed)     30 V       Current operating por contact max.     4 A       Diagnostics     Image: Contact max.       Status indication LED     no       Device protection [Electical     Image: Contact max.       Degree of protection [Electical     Image: Contact max.       Addition al contaiting protection (EN EC 60529)     Image: Contact max.       Addition al contaiting protection degree     3       Material group (EC 60664-1)     1       Mechanical data Material data     FKM       Material pashed     FKM       Material pashed     FKM       Material pashed     Enc dic casting       Mechanical data Material data     Enc dic casting       Mounting mathod     Inserted, screwed. Shaking protection       Environmental characteristics [Climatic     Environmental characteristics [Climatic       Operating temperatrue min.     2	Electrical data   Supply	
Operating voltage DC max.     60 V       Operating voltage DC (UL-listed)     30 V       Current operating por contact max.     4 A       Diagnostics     Image: Contact max.       Status indication LED     no       Device protection [Electical     Image: Contact max.       Degree of protection [Electical     Image: Contact max.       Addition al contaiting protection (EN EC 60529)     Image: Contact max.       Addition al contaiting protection degree     3       Material group (EC 60664-1)     1       Mechanical data Material data     FKM       Material pashed     FKM       Material pashed     FKM       Material pashed     Enc dic casting       Mechanical data Material data     Enc dic casting       Mounting mathod     Inserted, screwed. Shaking protection       Environmental characteristics [Climatic     Environmental characteristics [Climatic       Operating temperatrue min.     2	Operating voltage AC max.	50 V
Operating voltage AC (ILL-Hated)     30 V       Operating voltage AC (ILL-Hated)     30 V       Current operating per context max.     4 A       Dispositics     Status indication LED     no       Device protection [Electrical     Desige of protection degree     inserted.screwed       Delution Degree     3     Rated argo voltage     1.5 kV       Material group (IEC 60652)     1.95 kV     Material group (IEC 60664-1)     1       Mechanical Edu I Material data     Costing to Status indication LEG     Costing to Status indication LEG     Costing to Status indication LEG       Material pooling     safe-cover coated     Material pooling     Safe-cover coated       Material posing     PUF     Costing material     Zinc die-casting       Mechanical data   Mounting data     PUF     Costing material     Zinc die-casting       Mourting method     inserted, screwed, Shaking protection     Experimentation     Costing material       Dograding isoperature max.     85 °C     Costing material		
Operating voltage DC (UL listed)     30 V       Carrent operating per cented max.     4 A       Diagnostics     Status indication LED     no       Device protection   Electrical     Degree of protection (EN IEC 60529)     IP65, IP67, IP68, I		30 V
Current operating per contact max.     4 A       Diagnostics        Status indication LED     no       Device protection [Electrical        Dayne of protection representation of protection degree     inserted. screwed       Polution Dayne     3       Rated strange voltage     1.5 kV       Maderial group (Electrical        Octating to Construct the Construct of the Construc		30 V
Status indication LED     no       Device protection   Electrical     IPES, IPER, IPEB, I		4 A
Device protection [Electrical       Degree of protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5, kV       Material group (EC 60664-1)     1       Mechanical data [Material data     Calling locking       Galang locking     sale-cover coated       Material group (EC 60664-1)     FM       Material lossing     PUB       Locking material     Zinc die-casting       Material lossing     PUB       Locking material     Zinc die-casting       Mounting method     inserted, screwed, Shaking protection       Exvironmental characteristics [ Climatic     Coperating temperature min.       Operating temperature min.     28 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Streed       Note on stain relief     Protect the connectors by suitable measures from mechanical loads, o.g. by the usage of cable ites.       Note on bending radius     Adargered by excessive bending facili when laying cables, as the IP protection class can be ordangered by excessive bending forces.       Contemity     Protect the connectors by suitable measures from mechanical loads, o.g. by the usage of cable ites	Diagnostics	
Degree of protection (EN IEC 60529)     IP65, IP67, IP68, IP66K       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (IEC 6068-1)     I       Mechanical data   Material data     safe cover coated       Cating locking     safe cover coated       Material gasket     FKM       Material gasket     FKM       Material mousing     PUR       Locking method     inserted, screwed, Shaking protection       Environmental characteristites   Climatic     Coperating imperature max.       Operating imperature max.     85 °C       Addition temperature max.     85 °C       Note on stain relief     Protext the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.       Note on stain relief     DIN EN 61076-2·101 (M12), DIN EN 61076-2·114 (M8)       Installation (Cable     5       Jacket Color     Back <	Status indication LED	no
Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1,5 kV     Material group (IEC 60664-1)   1     Idechanical data [Material data   Coating locking     Sale Surge voltage   1,5 kV     Material gack   FKM     Material gack   FKM     Material gack   FKM     Material gack   FKM     Material gack   Incode-casting     Mechanical data [Mounting data   Inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature min.   25 °C     Operating temperature min.   25 °C   Operating temperature min.   25 °C     Additional condition temperature max.   85 °C   Additional condition temperature max.   85 °C     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.     Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.     Cotormity   Installation Cobe   Cable (donfittal conditication G50   650     Cable of Mittal and Gab   GSC   Gaber (Go	Device protection   Electrical	
Pallution Degree 3   Rated surge voltage 1,5 kV   Material group (EC 6068-1) 1   Mechanical data   Material data Coating ocking   Coating locking self-cover coated   Material gasket FKM   Material duo (EC 6068-1) I   Locking material Zinc die-casting   Mechanical data   Mounting data Inserted, screwed, Shaking protection   Environmental characteristics   Climatic Operating temperature max.   Operating temperature max. 85 °C   Additional condition temperature max. 85 °C   Additional condition temperature max. 85 °C   Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.   Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.   Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.   Cateromity Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.   Dix En 61076-2-101 (M12), DIN EN 61076-2-114 (M6) Installation   Cable   Cable deriftication 650   Cable (Type 5   Jacket Color black   Type of Centificate UFus   A	Degree of protection (EN IEC 60529)	IP65, IP67, IP68, IP66K
Rated surge voltage   1,5 kV     Material group (IEC 60664-1)   I     Mechanical data [Material data   Coating locking     Safe cover coated   Material gasket     Material gasket   FKM     Material bousing   PUR     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 min.   -25 °C     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 dass can be endangered by excessive bending forces.     Conformity   Environ: Climatic Conton Climatic Control (M12), DIN EN 61076-2-114 (M8)     Installation [Cable   Colle cleftification     Cable Identification   650     Cable Identification   650     Cable Identification   650     Cable Identification   650     Cable Identification   650<	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)     I       Mechanical data     Image: Content of the second s		3
Mechanical data   Material data       Coating locking     safe-cover coated       Material gasket     FKM       Material lousing     PUR       Locking material     Zinc die-casting       Mechanical data   Mounting data     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 herding radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endargered by excessive bending torces.       Contornity     Product standred     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     650     Cable identification       Cable identification     650     Cable identification       Type of Certificate     cURus     Amount stranding       Amount stranding     1     Stranding       Type of Certificate     cURus     Amount stranding       Amount stranding     1     Stranding     Stranding       Wire arrangement     brown, black, blue     Cable	Rated surge voltage	1,5 kV
Coating looking     safe-cover coated       Material gasket     FKM       Material looking     PUR       Looking material     Zin cile-casting       Mechanical data   Mounting data     Incerted, 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 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     Enviore Climatic       Product standard     DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)       Installation   Cable     GoO       Cable Type     5       Jacket Color     black       Type of Cartificate     CURus       Amount stranding     1	Material group (IEC 60664-1)	
Material gasket     FKM       Material housing     PUR       Locking material     Zinc di-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     Material 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 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     Endertification     650       Cable Type     5     Jacket Color     black       Type of Certificate     cURus     Amount stranding     1       Stranding     3 wires twisted     wire arrangement     brown, black, blue       Gable Type     5     Jacket A     PUR       Store hardrese sacket	Mechanical data   Material data	
Material housing     PUR       Locking material     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     Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the 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     650       Cable identification     650     Cable identification       Type of Certificate     cURus     Amount stranding       Type of Certificate     cURus     Mounter stranding       Stranding     3 wires twisted     Stranding       Wrise arrangement     brown, black, blue     Cable wei	Coating locking	safe-cover coated
Locking material     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     Mote on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the 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     650       Cable identification     650     Cable identification       Yape of Certificate     cURus     Amount stranding       Amount stranding     1     Stranding     3 wires twisted       wire arrangement     brown, black, blue     Cable weighth     26,4 g/m       Cable weighth     26,4 g/m     Material jacket     PUR <td>Material gasket</td> <td>FKM</td>	Material gasket	FKM
Mechanical data   Mounting data       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     C       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Note on strian relief       Note on strian 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 (M6)       Installation   Cable     Cable identification       Cable identification     650       Cable Identification     650       Cable Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       Wire arrangement     brown, black, blue       Cable weighh     26,4 g/m       Material jaket     PUR	Material housing	PUR
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 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 I Cable     Cable fortificate       Cable Type     5       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weight     26,4 g/m       Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-fr	Locking material	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 61076-2-114 (M8)       Installation   Cable     Cable toppe       Cable Type     5       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigh     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-fre	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.     Additional condition temperature range   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   650     Cable identification   650   Cable IType     5   Jacket Color   black     Type of Certificate   cJRus   CJRus     Amount stranding   1   Stranding     Stranding   3 wires twisted   wire arrangement     Wire arrangement   brown, black, blue   Cable weigth     Cable weigth   26.4 g/m   Material jacket   PUR     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 (sh	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.     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   650     Cable identification   650     Cable Color   black     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   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)   4.5 %	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   650     Cable identification   650     Cable Identificate   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   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 %	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 standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification650Cable identification650Cable Type5Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Operating temperature max.	85 °C
Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on 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     650       Cable identification     650     Cable X       Type of Certificate     cURus     Attention:       Amount stranding     1     Stranding     3 wires twisted       wire arrangement     brown, black, blue     Cable ig dym       Cable weigth     26,4 g/m     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     PP     PP	Additional condition temperature range	depending on cable quality
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     650       Cable identification     650     Cable Color       Jacket Color     black     Type of Certificate     cURus       Amount stranding     1     Stranding     3 wires twisted       wire arrangement     brown, black, blue     Cable veigth     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     PP	Important installation notes	
Note on bending radius   endangered by excessive bending forces.     Conformity     Product standard   DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)     Installation   Cable     Cable identification   650     Cable identification   650     Cable Color   black     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   58 ± 3 Shore D     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free     Outer-diameter (jacket)   4,3 mm     Tolerance outer diameter (sheath)   ± 5 %	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standardDIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)Installation   CableCable identification650Cable Type5Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	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.
Installation   CableCable identification650Cable Type5Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Conformity	
Cable identification650Cable Type5Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Product standard	DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)
Cable Type5Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Installation   Cable	
Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Cable identification	650
Type of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Cable Type	5
Amount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Jacket Color	black
Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Type of Certificate	cURus
wire arrangementbrown, black, blueCable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Amount stranding	1
Cable weigth26,4 g/mMaterial jacketPURShore hardness jacket58 ± 3 Shore DFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Stranding	3 wires twisted
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	wire arrangement	brown, black, blue
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	Cable weigth	26,4 g/m
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	Material jacket	PUR
Outer-diameter (jacket)4,3 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPP	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath) ± 5 %   Material wire insulation PP	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP		
	Tolerance outer diameter (sheath)	
Amount wires 3	Material wire insulation	PP

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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
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	4,5 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
No. of torsion cycles	1 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 360 °/m

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