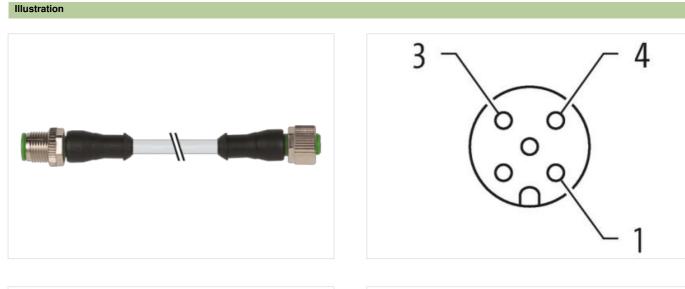


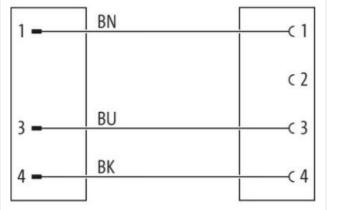
## M12 male 0° / M12 female 0° A-cod.

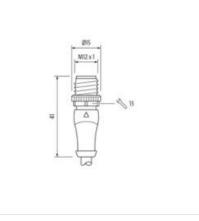
PUR 3x0.34 gy UL/CSA+drag ch. 13m

Male straight – female straight M12 – M12, 3-pole Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

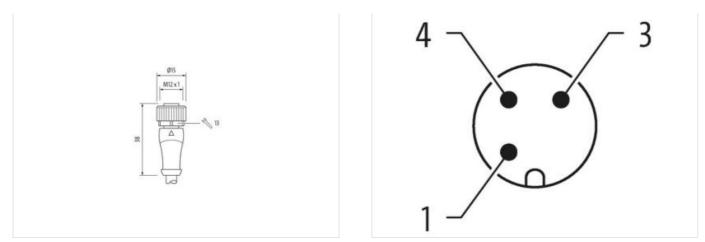






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19





Product may differ from Image



Cable length	13 m
	13 111
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal $\emptyset$ )	10 mm
Coding	А
Material	PUR
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	А
Material	PUR
No. of poles	3
Width across flats	SW13
Commercial data	
ECLASS-6.0	27061801
ECLASS-7.0	27061801
ECLASS-8.0	27061801
ECLASS-9.0	27061801
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290

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Electricit data   Supply     Use of the second of	GTIN	4048879804134	
Operating voltage AC max.250 VOperating voltage AC max.250 VOperating voltage AC (UL steed)30 VOperating voltage AC (UL steed)30 VConvert operating routage AC (UL steed)30 VInstitution I Connection4 AInstitution I Connection4 AInstitution I Connection10 VPovice protocing routage max.4 AAdditional condition protection degreeinserted. screwedAdditional condition protection degreeinserted. screwedPatition Degree3Rataf aurge voltage AC (UL steed)1Macharla group (UE 00064+1)1Institution AC (IS 00064+1)1Institution AC (IS 00064+1)1Macharla group (UE 00064+1)1Coating JochingNickeledCoating Joching State Strewed. Shaking protectionStrewed. Shaking protectionExperimention25 °COperating temperature min.25 °COperating temperature min.25 °CCoating Joching Strewed. Shaking protectionStrewed. Shaking protectionN	Packaging unit	1	
Operating vortage DC ress.     96 V       Operating vortage DC (LL-latece)     30 V       Operating vortage DC (LL-latece)     30 V       Current operating per contact rmax.     4 A       Installation I Connection     M12 x 1       Device protection I Electrical     A       Additional condition protection digrate     instanted, screward       Match and protection Condition protection digrate     instanted, screward       Match and protection Condition protection digrate     3       Rated surge voltage     2.5 kV       Material actical (Material data I Material data     Catering coldening       Costing colding     Nickeled       Costing colding temperature min.     25 °C       Operating temperature min.     25 °C       Operating temperature min.     25 °C       Operating temperature min.     25 °C </td <td>Electrical data   Supply</td> <td></td>	Electrical data   Supply		
Operating vortage DC ress.     96 V       Operating vortage DC (LL-latece)     30 V       Operating vortage DC (LL-latece)     30 V       Current operating per contact rmax.     4 A       Installation I Connection     M12 x 1       Device protection I Electrical     A       Additional condition protection digrate     instanted, screward       Match and protection Condition protection digrate     instanted, screward       Match and protection Condition protection digrate     3       Rated surge voltage     2.5 kV       Material actical (Material data I Material data     Catering coldening       Costing colding     Nickeled       Costing colding temperature min.     25 °C       Operating temperature min.     25 °C       Operating temperature min.     25 °C       Operating temperature min.     25 °C </td <td>Operating voltage AC max.</td> <td>250 V</td>	Operating voltage AC max.	250 V	
Operating voltage AC (ULIsited)     30 V       Operating voltage AC (ULIsited)     30 V       Current operating voltage AC (ULIsited)     30 V       Installation [Connection     Maximum Section [Bedrical       Device production [Electrical     Installation [Connection Production degree       Additional condition production degree     Installation [Connection]       Additional condition production degree     Instanted, screwed       Pollution Degree     3       Rate surge voltage AC (SULISING)     I       Macharid group (IEC 80666-1)     I       Macharid screwed connection     Zins de-casting       Material screw connection     Zins de-casting       Macharid screwed connection (Sinster)     Condered product on a screwed, Shaking protection       Environmental characteristics [Climatic     Connection beserver to permissible bending radis when laying ables, as the IP protection class can be andringed by excessive bending tories.       Operating instain riself     Protect the connectore by suitable measures from mechanical loads, e.g. by the usage of cable fee.       Attenti			
Operating per contact max.     4 A       Installation (Contencion     Installation (Contencion)       Mouning set     M12 x 1       Device protection  Electrical     Additional condition protection degree       3 Rated surge voltage     2.5 kV       Material group (IEC 6068-1)     I       Mechanical data   Material data     Coating to Kinda       Coating to Kinda     Mickeld       Coating to Kinda     Time decasting       Material group (IEC 6068-1)     I       Mechanical data   Mounting data     Time decasting       Material active connection     Zine de-casting       Material score connection response to sub scored. Staking protoction     Environmental characteristics   Climatic       Operating temperature min.     -25 °C       Operating temperature min.     -25 °C       Operating temperature ma			
Current operating per contact max.     4 A       Installation   Connection       Marking set     M12 x 1       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     2.5 kV       Material group (IEC 6068-1)     1       Machanical data  Material data     Coating of Uiting       Coating of Uiting     nickel plated       Locking matching     Zine dia coasting       Machanical data  Mounting data     Mounting matching       Mounting matching     Zine dia coasting       Mounting matching temperature max.     28 °C       Operating temperature max.     28 °C       Additional condition temperature range     depending on cable quality       Important Installation notes     Note on scring radius       Note on scring radius     Attention: Oscerve the permasable bending radii withe laying cables, as the IP protection class can be endangered by scresserve bending lores.       Contomity     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Cable otheriffication     283 <td< td=""><td></td><td></td></td<>			
Institution   Connection       Mounting set     M12 x 1       Device protection   Electrical     Instrict, screwad       Polluin Degree     3       Rated supp (IEC 60664-1)     1       Material group (IEC 60664-1)     1       Conting O filing     nickled       Material screw connection     28 ° C       Operating temperature max.     85 °C       Addition onter     95 °C       Operating temperature max.     85 °C       Note on strain field     Protect the connectors by suitable measures from mechanical locks. o.g. by the usage of cable lies.       Nater of strain field     Protect the connectors by suitable measures from mech			
Muning set     M12 x 1       Device protection   Electrical       Additional condition protection degree     instrat. acrowed       Polician Degree     3       Rated surge voltage     2.5 kV       Metorial group (EG 6064-1)     I       Decision Degree     3       Rated surge (EG 6064-1)     I       Decision Degree     3       Cating looking     Mickeled       Coating of fitting     mickeled acrowed       Coating of fitting     mickeled acrowed. Stating       Muterial acrow connection     Zine die casting       Methanical data   Muniting data     inserted. screwed. Shaking protection       Environmental chanacteristics   Climatic     Climatic       Operating temperature max.     25 °C       Note on stain effort     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Natio an stain effort     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cabl			
Device protection   Electrical     inserted, screwed       Additional condition protection degree     isserted, screwed       Pollution Degree     3       Ratef arg ovaltagia     2.5 kV       Material group (EC 60664.1)     1       Material group (EC 60664.1)     1       Material group (EC 60664.1)     Nickeled       Coating locking material     Mickeled       Coating job (Timg)     nickel plated       Material screw connection     Zin die-casting       Operating temperature max.     85 °C       Operating temperature max.     85 °C       Additorial condition notes     Attention: Coserve the pernissible bending radii when laying cables, e.g. by the usage of cable lies.       Note on scrint refer     Protect the connectors by suitable masures from mechanical loads, e.g. by the usage of cable lies.       Material account dia screw by encossis		M12 x 1	
Additional condition protection degree     inserted, screwed       Pollution Degree     3       Pollution Degree     3       Bated surge voltage     2,5 kV       Material group (EE 60684-1)     1       Mechanical data   Material data     Inclusion       Coating of fitting     nickel plated       Coating of screwed.     Zinc discasting       Material screw connection     Zinc discasting       Operating tomperature max.     Sin C       Operating tomperature max.     Sin C       Additional condition temperature max.     Sin C       Additional condition temperature max.     Sin C       Additional condition temperature max.     Sin C       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be and appred by soccessive bending traces.       Contornity     Insention 1 (Mat2)	-		
Pailulan Dagree     3       Rated surge voltage     2.5 kV       Material group (EC 60664+1)     1       Machanical data   Material data     Coating focking       Ocating focking     Nickeled       Coating forming     nickel plated       Coating forming     Nickeled       Coating forming     nickel plated       Coating forming     Cine die-casting       Material acrew connection     Zine die-casting       Material acrew connection     Zine die-casting       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Si °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important instalation notes     Si °C       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Attention: Observer the permissible bonding radii when laying cables, as the IP protection dass can be endangered by excessive bending forces.       Contornity     Product strander       Product strander     233       Cable forpi     3       Jacket Color<	· · ·	inserted, screwed	
Rated surge voltage     2,5 kV       Material group (IEC 6064-1)     I       Mechanical data   Material data     Coating loching       Coating loching     Nickeled       Coating loching     Nickeled       Material screw connection     Zinc die-casting	· · ·	-	
Material group (IEC 60664-1)     I       Mechanical data   Material data     Coating on Kickel plated       Coating of King     Nickeled       Coating of King     Nickel plated       Locking material     Zinc die-casting       Methanical data   Mounting data     Mechanical data   Mounting data       Murining method     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature min.     -25 °C       Operating temperature max.     85 °C		2.5 kV	
Mechanical data   Material data       Cading floking     Nickeled       Cading of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     Zinc die-casting       Methanical data   Mounting data     Inserted, screwed, Shaking protection       Methanical data   Mounting data     Inserted, screwed, Shaking protection       Mounting method     Inserted, screwed, Shaking protection       Coperating temperature main.     25 °C       Operating 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.       Nate on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Nate on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Nate on shering radius     Cateritor: Observe the permissible bending radii when laying cables, as the IP protection class can be ending fores.       Cateritor     DIN EN 61076-2-101 (M12)       Installation (Cable     QIP       Cable dentification     Q3       Cable fortification			
Coating locking     Nickeled       Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material serve connection     Zinc die-casting       Methal sterve connection     Sinserted, screwed, Shaking protection       Environmental characteristics   Climatic     Very connection       Operating temperature man.     -25 °C       Operating temperature man.     65 °C       Additional condition temperature mape     depending on cable quality       Important installation notes     Methon: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     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.       Contomity     Product standard     DIN EN 61076-2-011 (M12)       Itastalbeit Cable     233     Cable Type       Cable identification     233     Cable Type       Anount stranding     1     Stranding       1     Stranding     3 wires twisted       wire aranagement			
Coating of fitting     nickel plated       Locking material     Zinc die-casting       Material screw connection     Zinc die-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 may.     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.     Control       Product standard     DIN EN 61076 - 2101 (M12)     Important installation       Installation     233     Cable identification     233       Cable identification     233     Cable identification     234       Yape of Certificate     CURus     CuRus     CuRus       Anount stranding     1     Stranding     3 wires twisted     Stranding     1 Stranding       Yape of Certificate     CURus     Anount strandi	· ·	Nickeled	
Locking material     Zinc die-casting       Material server connection     Zinc die-casting       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Comparing temperature min.       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 stain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on stain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Operating radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conormity     Excessive bending forces.       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Cable fortification       Cable fortification     233       Cable of confinatie     cURus       Amount stranding     1       Stranding     3 wires twisted			
Material screw connection     Zinc die-casting       Mechanical data   Mounting data       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic       Operating temperature main.     -25 °C       Operating temperature main.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Mote on train 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 permisable bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contomity     Protect standard       Protout standard     DIN EN 61076-2-101 (M12)       Installation   Cable     233       Cable identification     233       Cable Color     gray       Type of Certificate     CUBus       Annount stranding     1       Stranding     3 wires twisted       wire arangement     brown, black, blue       Cable weigth     29,7 g/m       Material jackt     PUR       Shore hardness jacket     90 ± 5 Shore A			
Mechanical data   Mounting data       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Comportance       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Addional 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.       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conormity     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.       Conormity     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Attention: Observe the permissible bending forces.     Conormity       Protout standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Qasi a condition envince and env			
Mounting method     inserted, screwed, Shaking protection       Environmential characteristics   Climatic     -25 °C       Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Important installation notes       Note on stain 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.       Product standard     DIN EN 61076-2-101 (M12)       Installation of Cable     233       Cable identification     233       Cable Identification     233       Cable Cofor     gray       Type of Cortificate     cURus       Anount stranding     1       Stranding     3 wires twisted       wire arangement     brown, black, blue       Cable weight     29.7 g/m       Material jacket     PUR       Stranding     91 ± 5 %ore A       Freedom from ingredients (jacket)     62 %ore, cadmium-free, CFC-free, halogen-free, silicone-free <td></td> <td></td>			
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       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiles.       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Contormity     Environmental characteristics   Climatic       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Environmental characteristics   Climatic       Cable identification     233       Cable Ifype     3       Jacket Color     gray       Type of Certificate     URus       Anount strainding     1       Stranding     3 wires hvisted       wire arangement     brown, black, blue       Cable weigh     29.7 g/m       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     iead-free, cadmum-free, CFC-free, halogen-free, silicone-f	· · ·	inserted screwed Shaking protection	
Operating temperature min.     -25 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     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.       Conformity     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Installation [Cable       Cable identification     233       Cable identification     233       Quert stranding     1       Stranding     3 wires twisted       Write rangement     cURus       Amount stranding     1       Stranding     3 wires twisted       Write rangement     Dorwn, black, blue       Cable weight     29,7 g/m       Material jacket     PUR       Store A     Store A       Freedom from ingredients (jacket)     lead-free, caffinum-free, CFC-free, halogen-free, silicone-free       Outer-diameter (skeath)     ±5 %       Aterial wire	-	······································	
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 lies.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.       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)       Installation   Cable     233       Cable identification     233       Cable identification     233       Cable identificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     29,7 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       Tolerance outer diameter (sheath)		25 °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 radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     233       Cable identification     233       Cable Identification     233       Cable Identificate     CIPus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     29.7 g/m       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom (rom ingredients (jacket))     4.5 %       Material wire insulation     PP       Amount wires     3       Outer diameter insulation     P2 Sim			
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     Endedingered by excessive bending forces.       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     233       Cable identification     233       Cable Type     3       Jacket Color     gray       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       Wire arrangement     brown, black, blue       Cable weigth     29,7 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       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter insulation     PP			
Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fies.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     233       Cable identification     233       Cable Type     3       Jacket Color     gray       Type of Certificate     cuRus       Attention gray     3       Stranding     3 wires twisted       wire arragement     brown, black, blue       Cable weigth     29,7 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 5 %       Material jarket     PP       Anount wires     3       Outer diameter insulation     1,25 mm		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)       Installation   Cable     Cable identification     233       Cable identification     233     Cable identification     233       Cable of Cori     gray     gray     Grad     Grad     Grad       Type of Certificate     cURus     Grad     Grad <t< td=""><td></td><td></td></t<>			
Note on benching rations     endangered by excessive bending forces.       Conformity     endangered by excessive bending forces.       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     233       Cable identification     233       Cable Identification     233       Cable Of Carlificate     cuBk       Op Certificate     cuBk       Mount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     29,7 g/m       Material jacket     PUR       Shore Aardness 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       Tolerance outer diameter (jacket)     PP       Amount wires     3       Outer diameter insulation     PP       Amount wires     3       Outer diameter insulation     1.25 mm	Note on strain relief	,	
Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable       Cable identification     233       Cable Type     3       Jacket Color     gray       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     29,7 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       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %	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   Cable       Cable identification     233       Cable Type     3       Jacket Color     gray       Type of Certificate     cURus       Amount stranding     1       Stranding     3 wires twisted       wire arrangement     brown, black, blue       Cable weigth     29,7 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       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter tolerance core insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %	Conformity		
Cable identification233Cable Type3Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation± 5 %	Product standard	DIN EN 61076-2-101 (M12)	
Cable Type3Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth29,7 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 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation± 5 %	Installation   Cable		
Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth29,7 g/mMaterial jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)± 5 %Material wire insulationPPAmount wires3Outer diameter tolerance core insulation± 5 %	Cable identification	233	
Type of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth29,7 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 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	Cable Type	3	
Amount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth29,7 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 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	Jacket Color	gray	
Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth29,7 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 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	Type of Certificate	cURus	
wire arrangementbrown, black, blueCable weigth29,7 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 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	Amount stranding	1	
Cable weigth29,7 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 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	Stranding	3 wires twisted	
Material jacketPURShore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	wire arrangement	brown, black, blue	
Shore hardness jacket90 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	Cable weigth	29,7 g/m	
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	Material jacket	PUR	
Outer-diameter (jacket)   4,1 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 jacket	90 ± 5 Shore A	
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   3     Outer diameter insulation   1,25 mm     Outer diameter tolerance core insulation   ± 5 %	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	
Material wire insulation PP   Amount wires 3   Outer diameter insulation 1,25 mm   Outer diameter tolerance core insulation ± 5 %	Outer-diameter (jacket)		
Amount wires3Outer diameter insulation1,25 mmOuter diameter tolerance core insulation± 5 %	Tolerance outer diameter (sheath)	± 5 %	
Outer diameter insulation 1,25 mm   Outer diameter tolerance core insulation ± 5 %	Material wire insulation		
Outer diameter tolerance core insulation ± 5 %	Amount wires		
	Outer diameter insulation		
Shore hardness wire insulation /0 ± 5 Shore D	Outer diameter tolerance core insulation		
	Snore hardness wire insulation	(U ± 5 Shore D	

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Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	
Amount strands (wire)	42	
Diameter of single wires	0,1 mm	
Conductor crosssection (wire)	0,34 mm <sup>2</sup>	
Material conductor wire	Stranded copper wire, bare	
Conductor type (wire)	strand class 6	
Traversing distance (C-track)	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	6 A	
Electrical resistance line constant wire	57 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	UL 1581 § 1090   IEC 60332-2-2   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	
Travel speed (C-track)	10 Mio. @ 25 °C	
No. of torsion cycles	2 Mio.	
Torsion stress	± 180 °/m	
Torsion speed	35 cycles/min	

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