

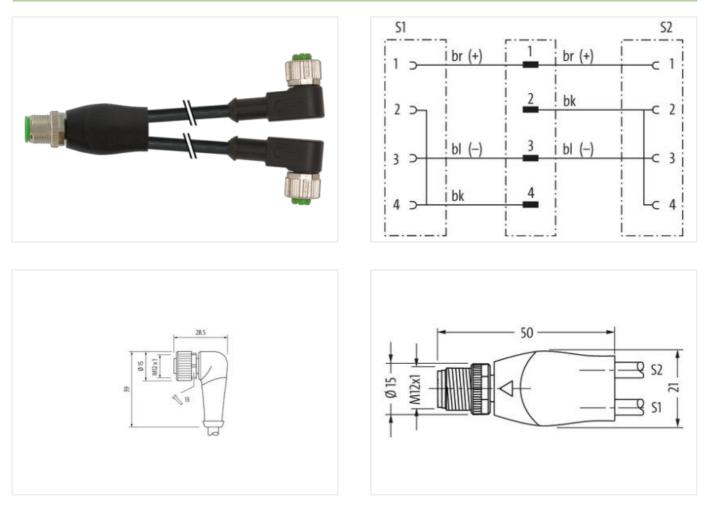
## Y-Distributor M12 male / M12 female 90° A-cod.

PUR 3x0.34 bk UL/CSA+drag ch. 3.5m

Y-connector M12 – M12, 4-pole Male straight – females 90° bridged 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

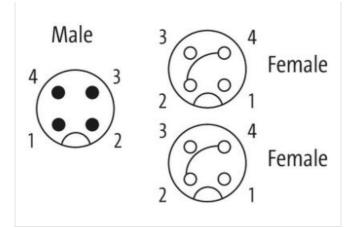




The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-21

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Product may differ from Image



Cable length	3,5 m
Side 1	
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	A
Material	PUR
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
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 3	
Family construction form	M12
Coding	A
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060313
ECLASS-11.1	27060313
ECLASS-12.0	27060313
ETIM-5.0	EC001855

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GTN   4048979155717     Packaging unit   1     Packaging unit   1     Coperating voltage AC max   250 V     Operating voltage AC max   250 V     Operating voltage AC (LL-leated)   30 V     Corrent operating voltage AC (LL-leated)   44 A     Installation I Connection   Material game voltage     Additional condition protection degree   inserted, screwed     Polution Degree   3     Rated surge voltage   2.5 V     Material gasto   FKM     Coching of fitting   nickel plated     Material gasto   FKM     Coching of fitting   nickel plated     Material gasto   FKM     Coching of fitting   nickel plated     Material gasto   FKM     Coching roution   Zer Cdo coaking     Material gasto   FKM     Coching roution   25 °C     Operating temperature max.   85 °C	customs tariff number	85444290
Electrical data   Stuppy       Upperating voltage DC max.       260 V         Operating voltage DC max.       260 V       Operating voltage DC max.       260 V         Operating voltage DC UL-listed)       30 V       Operating voltage DC UL-listed)       30 V         Commet operating por cortact max.       4 A       Insulation   Connection       Insulation   Connection   Electrical         Mounting set       M12 x 1       Insulation   Connection   Electrical       Insulation   Connection   Electrical         Additional constition protocols degree       insulatid, screwed       Pollution Degree       3         Reted surge voltage       2,5 kV       Material group (ICC 60064-1)       I         Mechanical data   Isolatid lata       Mokeled       Insulation   Connection   Electrical         Material group (ICC 60064-1)       I       Insu	GTIN	4048879155717
Electrical data   Stuppy       Upperating voltage DC max.       260 V         Operating voltage DC max.       260 V       Operating voltage DC max.       260 V         Operating voltage DC UL-listed)       30 V       Operating voltage DC UL-listed)       30 V         Commet operating por cortact max.       4 A       Insulation   Connection       Insulation   Connection   Electrical         Mounting set       M12 x 1       Insulation   Connection   Electrical       Insulation   Connection   Electrical         Additional constition protocols degree       insulatid, screwed       Pollution Degree       3         Reted surge voltage       2,5 kV       Material group (ICC 60064-1)       I         Mechanical data   Isolatid lata       Mokeled       Insulation   Connection   Electrical         Material group (ICC 60064-1)       I       Insu	Packaging unit	1
Operating voltage DC max.       250 V         Operating voltage AC (UL-listed)       30 V         Current operating DC max.       4 A         Installation   Connection       KA         Device protection   Electrical       M12 x 1         Device protection   Electrical       Servered         Additional condition protection degree       insurful, screwed         Pollution Degree       3         Relade surge voltage       2.5 kV         Material group, IEC 60064 1)       1         Mechanical data is Material data       Coating todating mouth is a convent.         Coating todating       Nokeled         Coating todating       Nokeled         Coating of fitting       nickle plated         Material gasket       FVM         Meterial data is flowniting data       Zinc die-casting         Meterial casting       material. screwed. Shaking protection         Environmental characteristics [Climatic       Sin Co         Operating tropperature mix.       25 ° C         Operating tropperature mix.       25 ° C         Operating inprovature max.       85 °C         Additional condition torperature max.       85 °C         Operating tropperature max.       <		
Operating voltage DC max.       250 V         Operating voltage AC (UL-listed)       30 V         Current operating DC max.       4 A         Installation   Connection       KA         Device protection   Electrical       M12 x 1         Device protection   Electrical       Servered         Additional condition protection degree       insurful, screwed         Pollution Degree       3         Relade surge voltage       2.5 kV         Material group, IEC 60064 1)       1         Mechanical data is Material data       Coating todating mouth is a convent.         Coating todating       Nokeled         Coating todating       Nokeled         Coating of fitting       nickle plated         Material gasket       FVM         Meterial data is flowniting data       Zinc die-casting         Meterial casting       material. screwed. Shaking protection         Environmental characteristics [Climatic       Sin Co         Operating tropperature mix.       25 ° C         Operating tropperature mix.       25 ° C         Operating inprovature max.       85 °C         Additional condition torperature max.       85 °C         Operating tropperature max.       <	Operating voltage AC max.	250 V
Operating voltage AC (ILL-listed)       90 V         Operating voltage AC (ILL-listed)       90 V         Corrent operating per contact max.       4 A         Installation   Connection       Installation   Connection         Mounting set       M12 x 1         Device protection [Electrical       Installation   Connection degree         Additional condition protection degree       3         Rated Surge voltage       2.5 kV         Material group (EC 00644-1)       1         Mechanical data   Material data       Coaling looking         Coaling looking       Nickeled         Coaling looking       Nickeled         Coaling looking       Nickeled         Coaling looking       Zinc die-casting         Material gasket       FKM         Locking material       Zinc die-casting         Material gorew connection       Zinc die-casting         Material gorew connection       Zinc die-casting         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temporature min.         Operating temporature min.       -25 °C         Operating temporature max.       85 °C         Addition temperature		
Operating voltage DC (UL listed)       90 V         Carrent operating per contact max.       4 A         Installation (Concertion       Installation (Concertion)         Mounting set       M12 x 1         Device protection (Electrical       Additional condition protection degree       3         Additional condition protection degree       3       3         Rated surge voltage       2.5 kV       Material group (Ele Condek-1)         Mechanical data (Material data       Coating of fitting       nickelod         Coating of fitting       nickelod       Coating of fitting         Material space (Ele Condek-1)       1       Installation (Ele Condek-1)         Material space worthworther       Time dise casting       Installation (Ele Condek-1)         Material space worthworther       Time dise casting       Installation (Ele Condek-1)         Mechanical data (Mounting data       Inserted, screwed, Shaking protection       Inserted, screwed, Shaking protection         Environmental characteristics (Climatic       Operating temperature max.       85 °C         Operating temperature max.       85 °C       Commony         Important installation notes       Attention: Observe the permissible bending radii when laying cables, as the IP protectin class can be endingered by accasavita wortherd facr		
Current operating per contact max.       4 A         Installation   Connection         Mounting set       M12 x 1         Device protection   Electrical         Additional condition protection degree       inserted, screwed         Pollution Dagree       3         Rated surge vortage       2.5 kV         Material group (EC 6064-1)       1         Mechanical data   Material data       Coating tooling         Coating tooling       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking autamital       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Environmentia characteristics   Climatic <t< td=""><td></td><td>30 V</td></t<>		30 V
Mounting set       M12 x 1         Perice protection   Electrical       inserted, screwed         Additional condition protection degree       is         Rated surge voltage       2,5 kV         Material group (EC 6064-1)       1 <b>Mechanical data [ Material data</b> Coating looking         Material gasket       FKM         Locking material       Zinc die casting         Material gasket       FKM         Locking material       Zinc die casting         Material gasket       FKM         Locking material       Zinc die casting         Material gasket       FKM         Locking material       Inserted, screwed, Shaking protection <b>Environmental characteristics   Climatic</b> Operating temperature min.         Operating temperature min.       -25 °C         Operating temperature min.       -25 °C         Operating temperature man.       28 °C         Additional condition notes       Attention: Observe the permissible bending radii vien laving cables, as the IP protection class can be endangered by excessive bending torces.         Contormity       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tels.         Chabelendification       G33		4 A
Device protection   Electrical         Additional condition protection degree       inserted, screwed         Pollution Degree       3         Radd surge voltage       2.5 KV         Material group (IEC 60864-1)       1         Mechanical data   Material data       Coating of Iting         Coating of Iting       nickel plated         Coating of Iting       nickel plated         Material group (IEC 60864-1)       Zinc die-casting         Material group material       Zinc die-casting         Material group concertoin       Zinc die-casting         Material group concertoin       Zinc die-casting         Material group concertoin       Zinc die-casting         Material screwed. Shaking protection       Environmental characteristics   Climatic         Operating method       inserted, screwed. Shaking protection         Environmental characteristics   Climatic       Operating method         Operating temperature max.       85 °C         Additional condition temperature may.       85 °C         Note on stain riself       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.         Note on stain riself       DIN EN 61076-2-101 (M12)         Instaliation Cable       Coaline dintificat	Installation   Connection	
Additional condition protection degree   inserted, screwed     Pollution Degree   3     Bated surge voltage   2,5 kV     Material group (ICE 60684-1)   1     International data Material data     Coating of Iting   nickel plated     Material group (ICE 60684-1)   1     International data Material gasket     Material gasket   FKM     Locking material   Zinc die casting     Material screw consection   Zinc die casting     Material screw consection   Zinc die casting     Mounting material   Sinc die casting     Mounting material   Sinc Gie casting     Material screw consection   Zinc die casting     Mounting method   inserted, screwed, Shaking protection     Environmental characteristics [ Climatur   Operating temperature max.     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Note on stain reliel     Note on stain reliel   Profect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable files.     Note on stain reliel   DIN EN 61076-2-101 (M12)     Installation Cable   Giad     Cable dentification   63     Cable dentification   63 <	Mounting set	M12 x 1
Pollution Degree   3     Rated surge voltage   2,5 kV     Material group (EC 60684-1)   1     Mechanical data [Materia] data   Inckel plated     Coating locking   Nickeled     Coating of fitting   nickel plated     Material gasket   FKM     Locking material   Zinc die-casting     Mechanical data [Mounting data   Inserted, screwed, Shaking protection     Environmental characteristics   Climatic   Operating temperature min.     Operating temperature min.   -25 °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 texping cables, as the IP protection class can be endarigened by excessive bending forces.     Codimity   Installation force     Product standard   DIN EN 61076-2-101 (M12)     Installation [Cable]   Forwing and	Device protection   Electrical	
Rated surge voltage       2,6 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       Coating locking         Nickeled       Coating locking         Coating locking       Nickeled         Coating locking       Nickeled         Coating locking       Nickeled         Coating locking       Nickeled         Cacking material       Zinc die-casting         Meterial screw connection       Zinc die-casting         Mounting method       inserted, screwed. Shaking protection         Environmental characteristics   Climatic       Operating temporature max.         Operating temporature 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 on dangeed by excessive bending forces.         Conformity       Important installation negative the permissible bending radii when laying cables, as the IP protection class can be on formal through the data data.         Cable identification       633	Additional condition protection degree	inserted, screwed
Material group (IEC 80664-1)       1         Mechanical data   Material data          Coating of filting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material gasket       FKM         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Mounting method         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Coperating 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 ites.         Conformity       Installation notes         Wrie arrangement       DIN EN 61076-2-101 (M12)         Installation   Cable	Pollution Degree	3
Mechanical data   Material data         Coating locking       Nickelp atted         Material gasket       FKM         Locking material       Zinc die-casting         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature max.         Operating temperature max.       85 °C         Additional condition temperature mage       depending on cable quality         Important installation notes       Note on stain relief         Note on stain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.         Note on stain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.         Note on stain relief       DIN EN 61076-2-101 (M12)         Installation   Cable       users streaming beroid by excessive beroing forces.         Conformity       Installation   Cable         Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable       Gable Type         Jacket Color       blaak	Rated surge voltage	2,5 kV
Coating locking       Nickeled         Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Meterial screw connection       Zinc die-casting         Mechanical data   Mounting data       Ince die-casting         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         Operating temperature max.       85 °C         Additional condition 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 ties.         Note on strain relief       Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.         Conformity       Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable       wire arrangement       brown, black, blue         Cable Type       3       Jacket Color       black         Type of Certificate       cliFus       Amount stranding       1         Stranding       3 wires twisted	Material group (IEC 60664-1)	
Coating of filting     nickel plated       Material gasket     FKM       Locking material     Zinc die-casting       Material serve connection     Zinc die-casting       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature main.     -25 °C       Operating temperature max.     85 °C     Additional condition temperature may.       Additional condition temperature max.     85 °C     Additional condition temperature may.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable iss.       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     DIN EN 61076-2-101 (M12)       Installation   Cable     wrie arrangement     brown, black, blue       Cable identification     633     Gable identification       Color     black     Type of Certificate     cURus       Amount stranding     1     Stranding     1       Stranding     3 wires twisted     wire arrangement     brown, black, blue       Cable identification     633	Mechanical data   Material data	
Coating of fitting       nickel plated         Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Inc die-casting         Mechanical data   Mounting data       Inc die-casting         Mechanical characteristics   Climatic       Operating temperature main.         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.         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       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       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Additional Cable       Gable identification         Gab	Coating locking	Nickeled
Material gasket       FKM         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Mounting method         Inserted, screwed, Shaking protection       Environmental characteristics   Climatic         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature may.       65 °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 ites.         Conformity       Installation loads         Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable       wire arrangement         wire arrangement       brown, black, blue         Cable identification       633         Cable identification       633         Cable identificate       cDRus         Amount stranding       1         Stranding       3 wires twisted         wire arrangement       brown, black, blue         Cable weigh       29.7		nickel plated
Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.       -25 °C         Operating temperature max.       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 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       Installation   Cable         Product standard       DIN EN 61078-2-101 (M12)         Installation   Cable       University         Cable identification       633         Cable identification       633         Cable identification       633         Cable keigh       90 ± 5 Nore         Amount stranding <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td>		· · · · · · · · · · · · · · · · · · ·
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 stain relief         Note on stain 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         Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable       wrie arrangement         wire arrangement       brown, black, blue         Cable identification       633         Cable (Color       black         Type of Certificate       cURus         Amount stranding       1         Stranding       3 wises twisted         wrie arrangement       brown, black, blue         Cable weigth       29,7 g/m         Materital jacket       PUR	Locking material	Zinc die-casting
Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       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)         Installation   Cable       wire arrangement         wire arrangement       brown, black, blue         Cable Type       3         Jacket Color       black         Type of Certificate       cURus         Amount stranding       1         Stranding       3 wires twisted         wire arrangement       brown, black, blue         Cable Type       3         Jacket Color       black         Type of Certificate       cURus         Attentione:<	Material screw connection	Zinc die-casting
Environmental characteristics   Climatic         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Important installation notes         Note on strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fies.         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       wire arrangement         wire arrangement       brown, black, blue         Cable identification       633         Cable IColor       black         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         Stranding       3 wires twisted         wire arrangement       brown, black, blue         Cable weigth       29,7 g/m         Materia	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.       Adtention: 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     wire arrangement       wrie arrangement     brown, black, blue       Cable identification     633       Cable Color     black       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       Stranding     90 ± 5 Shore A       Freedom from ingredients (jacket)     41 rm       Tolerance outer diameter (sheath)     ± 5 %	Mounting method	inserted, screwed, Shaking protection
Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Important installation notes       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.       Note on bending radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.       Conformity     Product standard       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     wire arrangement       wire arrangement     brown, black, blue       Cable Type     3       Jacket Color     black       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 %	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       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     wire arrangement       brown, black, blue     Cable Type       Jacket Color     black       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 %	Operating temperature min.	-25 °C
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)         Installation   Cable       wire arrangement       brown, black, blue         Cable identification       633       Cable Type         Jacket Color       black       DIN EN 61076-2-101 (M12)         Type of Certificate       cURus       Cuble class context (Cuble Class)         Amount stranding       1       Stranding       Stranding         Vire arrangement       brown, black, blue       Cable weigth       29,7 g/m         Material jacket       PUR       Shore hardness 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 %	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)         Installation   Cable       wire arrangement       brown, black, blue         Cable identification       633       Cable         Jacket Color       black       DIN EN         Type of Certificate       cURus       Attention         Amount stranding       1       Stranding       3 wires twisted         Write arrangement       brown, black, blue       Cable identification       633         Cable Type       3       Jacket Color       black       Type of Certificate       cURus         Amount stranding       1       Stranding       3 wires twisted       Stranding       3 wires twisted         Shore hardness jacket       PUR       Shore hardness jacket       PUR       Shore hardness jacket       PUR         Shore hardness jacket       90 ± 5 Shore A       Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Oute	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)         Installation   Cable       wire arrangement       brown, black, blue         Cable identification       633       Cable identification       633         Jacket Color       black       DIN EN 61076-2-101 (M12)       DIN EN 61076-2-101 (M12)         Installation   Cable       wire arrangement       brown, black, blue       Cable identification       633         Cable identification       633       Cable identification       633       Cable identificate       CURus         Amount stranding       1       Stranding       1       Stranding       Stiranding       <	Important installation notes	
Note on bending radius     endangered by excessive bending forces.       Conformity       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable       wire arrangement     brown, black, blue       Cable identification     633       Cable Type     3       Jacket Color     black       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 %	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)Installation   Cablewire arrangementbrown, black, blueCable identification633Cable Type3Jacket ColorblackType 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 %	Note on bending radius	
Installation   Cablewire arrangementbrown, black, blueCable identification633Cable Type3Jacket ColorblackType of CertificatecURusAmount stranding1Stranding3 wires twistedwire arrangementbrown, black, blueCable weigth29,7 g/mMaterial 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 %	Conformity	
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Cable identification633Cable Type3Jacket ColorblackType 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 %	Installation   Cable	
Cable Type3Jacket ColorblackType 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 %	wire arrangement	brown, black, blue
Jacket ColorblackType 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 %	Cable identification	633
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 %	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 %	Jacket Color	black
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 %	Type of Certificate	cURus
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 %	Amount stranding	1
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 %	Stranding	3 wires twisted
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 %	wire arrangement	brown, black, blue
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 %	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 jacket	PUR
Outer-diameter (jacket)4,1 mmTolerance outer diameter (sheath)± 5 %	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)± 5 %		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
	Outer-diameter (jacket)	4.1 mm
		-
		±5%
Amount wires 3	Material wire insulation	± 5 % PP

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Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	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
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
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min

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