

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

PUR 4x0.34 bk UL/CSA+robot+drag ch. 5m

Male straight – female 90° M12 – M12, 4-pole 3× LED (PNP), (NPN) on request

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

Plastic housings with good resistance against chemicals and oils.

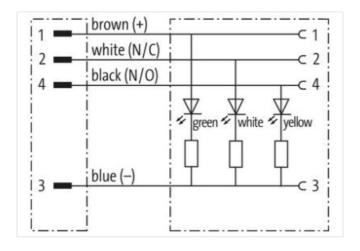
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

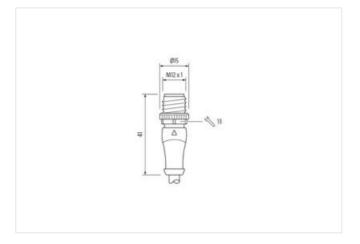
## **Link to Product**

## Illustration



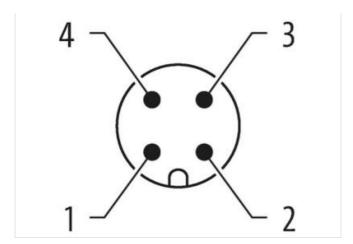


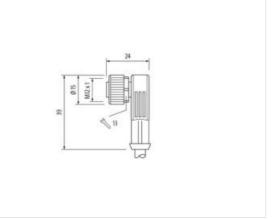






stay connected





Product may differ from Image











Cable length	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
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
suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879169240
Packaging unit	1
Electrical data   Supply	

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: 2024-05-05



stay connected

Operating voltage DG min.         18 V           Operating voltage DG min.         39 V           Operating voltage DG max. (Uklisted)         39 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED         grown, white, yellow           Installation (Connection         M12 x 1           Device protection (Electrical)           Additional condition protection of percer           Polition representation (Political Control of September 1)           Polition representation (Political Control of September 1)           Polition representation (Political Control of September 1)           Maleiral grown (Political Control of September 1)           Maleiral state (September 1)           Control of political (September 1)           Maleiral state (September 1)           Maleiral state (September 1)           Contact of political (September 1)           Maleiral state (September 2)           Maleiral September 2)           Malei		
Operating voltage DC max.         30 V           Operating voltage DC max. (UL intend)         30 V           Operating voltage DC max.         4 A           Diagnostics         Status indication LED         grown, white, yellow           Installation (Connection         Water Market Marke	Operating voltage DC	24 V
Operating voltage DC max. (UL-listed)         30 V           Courset operating per control max.         4 A           Diagnositics         Courset operating per control max.         4 A           Courset operating per control max.         MI2 x 1           Device protection (Electrical)         MI2 x 1           Additional condition protection degree         Inserted, screwed           Publishin Degree         3           Rade surge voltage         0.8 kV           Material group (EC 80864-1)         1           Mechanical data Material data Material data Material data Material conversion         2m dec-assing           Material group (EC 80864-1)         2m dec-assing           Material grow commodion         2m dec-assing           Material grow commental characteristics [Climatics         2m dec-assing           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics [Climatics         Clomatics           Environmental characteristics [Climatics]         2m dec-	Operating voltage DC min.	18 V
Diagnostics  Status indicator LED green, white, yellow  Installation   Connection  Mounting set M2 x 1  Additional condition protection degree inserted, screwed  Pollution Degree 3  Additional condition protection degree inserted, screwed  Pollution Degree 3  Assets sundeacounting set with the state of	Operating voltage DC max.	30 V
Diagnostics         Status indication LED         green, white, yellow           Installation   Connection         M12 x 1           Mounting set         M12 x 1           Additional condition protection degree         inserted, screwed           Publishin Degree         3           Ralled surgey voltage         0,8 kV           Mechanical data   Material data         Macherial group (IEG 60664-1)           Mechanical data   Material data         June discussing           Coating problems         garle-cover coated           Coating publishing         anife-cover coated           Coating publishing         anife-coating           Locking material         2me descasting           Mounting method         Inserted, screwed, Shaking protection           Environmental characteristics   Climate         Concepture           Properating temperature man.         45 °C           Operating temperature man.         45 °C           Note on strain ratief         Probect the commectors by suitable measures from mec	Operating voltage DC max. (UL-listed)	30 V
Status indication LED green, white, yellow  Installation   Connection  Mounting set M12 x   M12 x    Additional condition protection degree inserted, screwed    Pollution Degree 3    Additional condition protection degree    Pollution Degree 3    All ander surp voltage    All ander	Current operating per contact max.	4 A
Installation   Connection         Mounting set         M12 x 1           Device protection   Electrical         Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Fasted surge vortage         0,8 kV           Machanical datal   Material data         Machanical datal   Material data           Coating locking         safe cover coated           Coating locking         safe cover coated           Coating locking and lifting         nickel plated           Locking material         Zinc dis-casting           Mechanical data   Mounting data         Zinc dis-casting           Mechanical data   Mounting data         Zinc dis-casting           Mechanical planting method         inserted, screwed, Shaking protection           Environmental characteristics   Climate         Properting perspecture min.         -25 °C           Operating temperature max.         85 °C         Actional condition temperature max.         85 °C           Additional condition temperature max.         85 °C         Actional condition temperature max.         85 °C           Note on bending radius         Attention. Cheserve the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Attention. Cheserve the permissible bending radii	Diagnostics	
Mounting set   M12 x 1    Device protection   Electrical    Additional condition protection degree   inserted, screwed    Pollution Degree   3    Rated surge voltage   0.8 kV    Macterial group (EC 60664.1)      Mechanical data   Material data    Material screw connection   2 incide casting    Material screw connecti	Status indication LED	green, white, yellow
Device protection   Electrical   Additional condition protection degree   inserted, screwed   Pollution Degree   3   3   3   Rated surge voltage   0,8 kV   Material group (IEC 68664-1)       Mechanical data   Material data   Coating of fitting   nickel plated   Locking material   Zimo de-casting   Material sore womerction   Zimo de-casting   Mechanical data   Mounting data   Mounting method   inserted, screwed, Shaking protection   Environmental characteristics   Climatic   Coperating temperature min.   25 °C   Coperating temperature max.   85 °C   Additional condition temperature range   depending on cable quality   Important installation notes   Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Contomity   Product standard   Dil NE N61076-2-101 (M12)   Installation   Cable   Cable Type   5   Jacket Color   black   Type of Certificate   cURus   Amount stranding   1   Stranding   4   wires twisted   wire arrangement   brown, black, blue, white   Traversing distance (C-track)   5 m @ 25 °C   Dotter diameter (glocke)   5 m @ 25 °C   Duter diameter (glocke)   5 m @ 25 °C   Duter diameter (glocke)   6 %   Material size (Glocke)   6 %   Material siz	Installation   Connection	
Additional condition protection degree   inserted, screwed	Mounting set	M12 x 1
Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 80684-1) I  Mechanical data   Material data  Coating of litting incikel plated Locking material Zinc die-casting Material screw connection Since the state of the sta	Device protection   Electrical	
Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 80684-1) I  Mechanical data   Material data  Coating of litting incikel plated Locking material Zinc die-casting Material screw connection Since the state of the sta	Additional condition protection degree	inserted, screwed
Rated surge voltage   0.8 kV   Material group (EC 66664-1)   1  Coating locking   safe-cover coated   Coating locking   nickel plated   Locking material   Zinc die-casting   Material screw connection   Zinc die-casting   Material Mounting method   Environmental characteristics   Climatic   Operating temperature min.   -25 °C   Operating temperature min.   -25 °C   Operating temperature max.   85 °C   Additional condition temperature range   depending on cable quality   Important installation notes   Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on bending radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Contormity   Trouburd standard   DIN EN 61076-2-101 (M12)   Installation   Gable   Cable identification   654   Cable identification   654   Cable identification   654   Cable identification   654   Cable identification   4 were stivisted   Wire air arrangement   5 brown, black, blue, white   Traversing distance (C-track)   5 m @ 25 °C   horizontal   Cable weigh   36.3 m   Material jacket   PUR   Shore hardness jacket   PUR   Shore hardness jacket   PUR   Shore hardness jacket   9 m   Freedom from ingredients (gacket)   4.7 mm   Tolerance outer diameter (scheath)   2.5 %   Material wire insulation   PP   Annount wires   4   Outer diameter insulation   1.25 mm   Outer diameter insulation   1.25 mm	•	· · · · · · · · · · · · · · · · · · ·
Meterial group (IEC 60684-1)  Mechanical data   Material data  Coating locking sale-cover coated  Coating locking nickel plated  Locking material Zinc die casting  Material screw connection Zinc die casting  Material screw connection Zinc die casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Perating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 664  Cable Type 6 5  Jacket Color black  Type of Certificate UPIss  Avers twisted  wire arrangement brown, black, blue, white  Wire arrangement brown, black, blue, white  Traversing distance (C-track) 5 % 02 5°C   Inortzontal  Cable longer size of Carlot (Jacket) 7 5°C  Coller diameter (Jacket) 4,7 mm  Tolerance outer diameter (Jacket) 4,7 mm  Tolerance outer diameter (Jacket) 9P  Amount streading 1 125 mm  Outer diameter insulation 12,5 mm  Outer diameter insulation 12,5 mm  Outer diameter insulation 12,5 mm		0,8 kV
Coaling locking         safe-cover coated           Coaling of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting dats         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         Attentions: 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 (dentification   Cable         Exercise   Cable (dentification   Cable   Cable (dentification   Cable   Cabl	Material group (IEC 60664-1)	T
Coaling locking         safe-cover coated           Coaling of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting dats         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         Attentions: 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 (dentification   Cable         Exercise   Cable (dentification   Cable   Cable (dentification   Cable   Cabl	Mechanical data   Material data	
Coating of fitting nickel plated  Locking material Zinc die-casting  Meterial screw connection Zinc die-casting  Meterial screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  25 °C  Operating temperature man.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification   654  Cable Type   5  Jackel Color Diack  Type of Certificate cluRus  Amount stranding   1  Stranding   4 wires twisted  wire arrangement Drown, black, blue, white  Traversing distance (C-track)   5 m @ 25 °C   horizontal  Cable weigh   36,3 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)   4,7 mm  Tolerance outer climater (sheath)   £ 5 %  Material wire insulation   1,25 mm  Outer diameter tolerance core insulation   £ 5 %	·	cate cover coated
Locking material Zinc die-casting Material sorew connection Inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °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.  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 (antification   654 Cable Type   5 Cable (antification   55 Cable (Type of Certificate   CURus Amount stranding   1 Stranding   4 wires twisted  wire arrangement   brown, black, blue, white Traversing distance (C-track)   5 m @ 25 °C   horizontal Cable (wight   Material jacket   9UR Shore hardness jacket   58 ± 3 Shore D Freedom from ingredients (facket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket)   4,7 mm Tolerance outer diameter (sheath)   4,5 % Material wire insulation   1,25 mm Outer diameter tolerance core insulation   ± 5 %		
Material screw connection         Zinc die-casting           Mechaical 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         Vote on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Conformity         Conformity           Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Suitable footing the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable identification         654           Cable identification         1           Stranding         1		·
Mechanical data   Mounting method inserted, screwed, Shaking protection  Fuvironmental characteristics   Climatic Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature max depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard IDIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 654  Cable tidentification 654  Cable tolentification 654  Cable Type 5  Jacket Color black Type of Certificate UPRus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 5 m @ 25 °C   Ihorizontal  Cable wight 36,3 g/m  Material jacket PUR  Shore hardness jacket 98 ± 3 Shore D  Freedom from ingredients (jacket) 4,7 mm  Tolerance outer diameter (sheath) 1,25 mm  Outer diameter (sheath) 1,25 mm  Outer diameter insulation 4,5 mm  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 1,25 mm  Outer diameter tolerance core insulation 2,5 %		<u> </u>
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.		Zinc die-casting
Environmental characteristics   Climatic  Operating temperature min.	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  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) Installation   Cable  Cable identification 654 Cable Type 5 Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 36,3 g/m Material jacket PUR  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4 Outer diameter tolerance core insulation ± 5 %  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Mounting method	inserted, screwed, Shaking protection
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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.  Atention: 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 654  Cable Type 5  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 36,3 g/m  Material jacket PUR  Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) [ead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter tolerance core insulation ± 5 %  Outer diameter tolerance core insulation ± 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  Cable Identification 654  Cable Identification 654  Cable Identification black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted wire arrangement brown, black, blue, white  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 36,3 g/m  Material jacket PUR  Shore hardness jacket PUR  Shore hardness jacket lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4 4  Outer diameter tolerance core insulation ± 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.  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 654  Cable Type 5  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weight 36,33 mm  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) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter tolerance core insulation ± 5 %	Additional condition temperature range	depending on cable quality
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 654  Cable Type 5  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted brown, black, blue, white  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable wigh Material jacket PUR  Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) 4,7 mm  Tolerance outer diameter (jacket) 4,9 mm  Amount wires 4  Amount stranding 5 + 5 %  Material wire insulation PP  Amount wires 4  Outer diameter tolerance core insulation ± 5 %  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Attention: Observe the permissible bending forces.  Attention: Observe the permissible bending forces.  Attention of Shore P P P P P P P P P P P P P P P P P P P	Important installation notes	
endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 654  Cable Type 5 Jacket Color black Type 0 Certificate cURus  Amount stranding 1  Stranding 1  Stranding 4 wires twisted wire arrangement brown, black, blue, white  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 36,3 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) 4,7 mm  Tolerance outer diameter (sheath) PP  Amount wires 4  August 4 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 654  Cable Type 5  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 36.3 g/m  Material jacket PUR  Shore hardness jacket PUR  Shore hardness jacket 8 ± 3 Shore D  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Note on bending radius	
Installation   Cable       Cable identification     654       Cable Type     5       Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     brown, black, blue, white       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Cable weigth     36,3 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)     4,7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %	Conformity	
Cable identification         654           Cable Type         5           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         36,3 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)         4,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %	Product standard	DIN EN 61076-2-101 (M12)
Cable identification         654           Cable Type         5           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         36,3 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)         4,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %	Installation   Cable	
Cable Type 5 Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 36,3 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) 4,7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %		654
Jacket Color     black       Type of Certificate     cURus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     brown, black, blue, white       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Cable weigth     36,3 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)     4,7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %		
Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 36,3 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) 4,7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %		
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Freedom from ingredients (jacket)  Outer-diameter (jacket)  4,7 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  Amount wires  4  Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  ± 5 %	Material jacket	·
Outer-diameter (jacket) 4,7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  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 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %	Outer-diameter (jacket)	4,7 mm
Amount wires 4 Outer diameter insulation 1,25 mm Outer 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	PP
Outer diameter tolerance core insulation ± 5 %	Amount wires	4
	Outer diameter insulation	1,25 mm
Shore hardness wire insulation 74 ± 3 Shore D	Outer diameter tolerance core insulation	±5%
	Shore hardness wire insulation	74 ± 3 Shore D

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: 2024-05-05



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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
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Electrical resistance line constant wire	60 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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
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	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min