

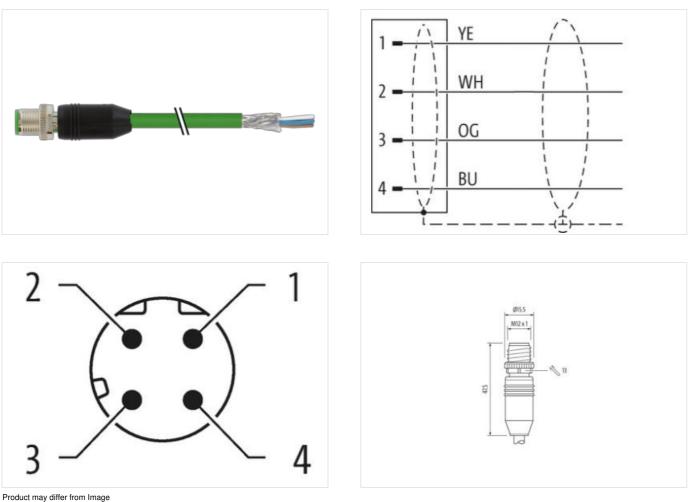
## M12 male 0° D-cod. with cable shielded

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 10m

Product fulfills requirements according to UN/ECE R118 Ethernet CAT5 Transmission properties with channel transmission up to 100 m Male straight M12, 4-pole D-coded shielded Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product

Illustration







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: 2024-05-08



Cable length	10 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	D
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC002599
customs tariff number	85444290
GTIN	4048879197434
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication   Ethernet fund	stionality
duplex	- Full duplex
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
Mechanical data	·
Contour for corrugated hose	without
Mechanical data   Material data	Wallou
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
-	הואבונבע, אורפאפע, אותאווע אוטנפטוטוו
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C

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Important installation noise     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.       Note on bornding radius     Attention: Connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites.       Conforming     DNE N 6 1078-2-101 (M12)       Trappid Configning     DNE N 6 1078-2-101 (M12)       Instantion (Cable Configning)     DNE N 6 1078-2-101 (M12)       Trappid Configning     QPB       Standing     Standing       Piece, Foll     Piece, Foll       Travel apped (Crack)     Standing Crack       Standing (Standing Crack)     Standing Crack       Standing (Standing Crack)     Standing Crack       Standing (Standing Crack)     Standing Crack       Travel apped (Crack)     Standing Cra	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 liee.       Note on bending radius <b>Centernity</b> Product standard     Use No 1076-2-101 (M12)       Installation (Cable)     Installation (Cable)       Cable definitication     766       Lapset Carl (Caster)     Queen Notation (Caster)       Type of Cartificate     Queen Notation (Caster)       Cable definition (Cable)     Queen Notation (Caster)       Cable definition (Caster)     Queen Notation (Caster)       Strandard     Queen Notation (Caster)       Strandard     A wires around Core filler twisted       Cable behalting (royon)     Oppor traid, lined       Galde shift (Type)     Queen Notation (Caster)       Galde shift (Strandard)     Strandard       Viral aged (Caster)     Strandard       Viral aged (Caster)     Strandard       Strandard     Strandard       Strandard     Strandard       Oppor traid, lined Caster)     Strandard       Caster (Caster)     Strandard     Strandard       Caster (Caster)     Strandard     Strandard       Caster (Caster	Additional condition temperature range	depending on cable quality
Note on banding radiu     Alterofler: Observe the permissible bending forces.       Contornity     Product standard     DNE N8 1076-2-101 (M12)       Installation   Cable     Contornity     Product standard     DNE N8 1076-2-101 (M12)       Installation   Cable     Option     green     Product standard     Option       Data de cheffication     76     green     Product standard     Output       Data de cheffication     76     green     Product standard     Output       Stranding     Queren     Option     Queren     Product strandard	Important installation notes	
Wate in datagened by excessive bending brokes."ContormityContormityPoduct standardDN EN 81078-2-101 (M12)Installation (CabieInstallation (CabieCable definitication796Cable definitication906Standard4 wires around Core filler twistedCable shelding (type)cooper brail, timedCable shelding (type)805 %Cable weight805 %Cable weight805 %Cable weight805 %Cable weight805 %Cable weight815 %Cable denter (acbat)85 %Cable weight815 %Cable denter (acbat)85 %Cable denter (acbat)85 %Cable weight85 %Cable denter (acbat)85 %Cable weight85	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard     DN EN 61076-2-01 (M12)       Installing (Cable     Cable identification       Cable identification     796       Cable identification     Gene       Standard     Gene       Standard     Virus       Anount strandard     4 wires around Core filler twisted       Cable shelding (type)     Opper brail, timed       Cable shelding (type)     Opper brail, timed       Cable shelding (type)     Sing 25 %       Cable shelding (type)     Sing 25 %       Standard     Sing 25 %       Traversing distance (C-track)     Sing 25 %       Cable weigh     Sing 25 %       Travel speed (C-track)     Sing 25 %       Standardses jacket     PB Shore A       Freedor from ingreedonts (starket)     Sing 45 %       Material inner (starket)     Is %       Material inner (starket)     Is %       Material inner (starket)     Sing 45 %       Color (market starket)     Sing 45 %       Color (market starket)     Sing 45 %       Anount stards (starket)     Sing 45 %       Color (market starket)     Sing 45 % <td>Note on bending radius</td> <td></td>	Note on bending radius	
Installation   CableCable identification796Cable identification9796Pige of CentrificateCURusAmourt stranding1Stranding4 vires around Core Illier twistedCable shielding (type)copper braid, tinnedCable shielding (type)copper braid, tinnedCable shielding (type)copper braid, tinnedCable shielding (type)bit is in the strandingEllier inversing distance (C+rack)S %BandingFloeco, FollFiller inversing distance (C+rack)S m @ 25 °CTravel speed (C-track)3, Mio. @ 25 °CCable shielding (type)6, 3 g/mTravel speed (C-track)3, 3 m @ 25 °CTravel speed (C-track)3, 3 m @ 25 °CTravel speed (C-track)3, 3 m @ 25 °CTravel speed (C-track)6, 7 mnTorout speed (C-track)6, 7 mnTorout speed (C-track)6, 7 mnTorout speed (C-track)FNNCCable right1 5 %Material jacktFNNCCabler framer (tacket)5 Sinor B AFroedom from ingredients (jackot)14 mOuter diameter (tacket)5 Sinor DCabler framer (tacket)5 Sinor DCabler diameter (tacket)5 Sinor DCabler diameter (tacket)5 Sinor DCabler diameter (tacket)1 A mnOuter diameter tolerance core insulation1 A mnOuter diameter tolerance core insulation1 Sinor DCarler diameter (tacket)1 Sinor DCarler diameter (	Conformity	
Cable identification796Lacket CoirgreenType of CortificationURusAmount stranding1Stranding4 wires around Core filler twistedCable shelding (type)copper braid, tinnedCable shelding (type)copper braid, tinnedCable shelding (type)SS %StrandingFilece, FollFillarV96FillarSS %FillarSS %FillarSS %Travel spaced (C track)S % @ 25 °CCable shelding (chrock)S % @ 25 °CCable weighØ.3 g/mTravel spaced (C track)S 3 mis @ 25 °CTravel spaced (C track)S 3 mis @ 25 °CCable weighØ.3 g/mTravel spaced (C track)S 7 mis @ 25 °CTravel spaced (C track)S 3 mis @ 25 °CMatarial jackatPUFFravel spaced (C track)S 7 mis @ 25 °CTravel spaced (C track)S 7 mis @ 25 °CCaller damiser (stack)S 100 °CCaller damiser (stack)S 100 °C	Product standard	DIN EN 61076-2-101 (M12)
Jackel Color green Type of Certificate CJRus Anount stranding cli Stranding 4 wires around Core Iller twisted Cable shielding (type) coper braid, fimed Cable shielding (type) 85 % Banding Pieces, Foll stranding Pieces, Foll Stranding Pieces, Foll Stranding Pieces, Foll Stranding Pieces, Foll Stranding Octaal (type) 98 98 % wire arangement white, yellow, blue, orange Travesting delance (C-track) 5 m @ 25 °C Cable widgit 08,3 g/m Travesting delance (C-track) 3 Mio @ 25 °C Cable widgit 08,3 g/m Travesting delance (C-track) 3 m @ 25 °C Cable widgit 08,3 g/m Travesting delance (C-track) 3 m @ 25 °C Material jacket 99,3 g/m Travesting delance (C-track) 3 m @ 25 °C Material jacket 99,3 g/m Travesting delance (C-track) 3 m @ 25 °C Material jacket 99,3 g/m Travesting delance (C-track) 3 m @ 25 °C Material jacket 99,3 g/m Travesting delance (C-track) 3 m @ 25 °C Material jacket 99,3 g/m Travesting delance (C-track) 3 m @ 25 °C Material jacket 99,5 m @ 7 Material inter jacket 99,5 m @ 7 Material inter jacket 99,5 m @ 7 Material inter jacket 94 Anount wires Material inter jacket 94 Material inter jacket 94 Material inter jacket 94 Coller diameter (sheath) 1,4 mm Cuber diameter instandion 1,4 mm Cuber diameter in	Installation   Cable	
Type of CertificatecURusArnout stranding1Arnout stranding1Stranding62 billed (cverage)Cable shielding (cverage)85 %BandingFleece, FolFilleryeswire arangementwhile, yellow, bue, orangeTravesing distance (C-track)5 m $@ 25 °C$ Travesing distance (C-track)3 Mio. $@ 25 °C$ Travesing distance (C-track)3 Mio. $@ 25 °C$ Cable shielding (cverage)83 mio. $@ 25 °C$ Travesing distance (C-track)3 Mio. $@ 25 °C$ Cable weigh63.3 g/mTravesing distance (C-track)3 Mio. $@ 25 °C$ Shore hardness jacket99 Shore AFreedom trom ingredients (gacket)89 Shore AFreedom trom ingredients (gacket)89 Shore AFreedom trom ingredients (gacket)6.7 mmCalor (mer jacket)1.5 %Material iner jacketFINCCalor (mer jacket)1.4 mnOuter diameter (sheath)2.5 %Shore hardness wire insulation1.4 mnOuter diameter tolerance core insulation2.5 NrcShore hardnes wire insulation2.5 NrcDiameter disrego (stacket)6.5 Shore DDiameter disrego (stacket)1.00 N/D is 0.00 N/D	Cable identification	796
Amount stranding     1       Stranding     4 wires around Core filler twisted       Cable shielding (type)     copper braid, tinned       Cable shielding (coverage)     85 %       Banding     Fleece, Fell       Filliar     Yes       wire arrangement     white, yellow, bue, orange       Traversing distance (C-track)     5 m@ 25 °C       Cable weigh     63.3 g/m       Travel speed (C-track)     3.3 m/s @ 25 °C       Cable weigh     63.3 g/m       Travel speed (C-track)     3.3 m/s @ 25 °C       Strone hardness jacket     PUR       Shore hardness jacket     B9 Shore A       Freedom from ingredients (jacket)     6.7 mm       Tolerance outer diameter (jacket)     6.7 mm       Tolerance outer diameter (jacket)     6.7 mm       Cabler wein sulation     PE       Anount wires     4       Outer diameter (iselant)     1.4 mm       Outer diameter folerance con issulation     1.5 %       Shore hardness wire insulation     1.5 % Tore D       Diagredim freeness wire insulation     1.5 %       Tore diameter folerance core insulation<	Jacket Color	green
Amount stranding     1       Stranding     4 wires around Core filler twisted       Cable shielding (type)     copper braid, tinned       Cable shielding (coverage)     85 %       Banding     Fleece, Fell       Filliar     Yes       wire arrangement     white, yellow, bue, orange       Traversing distance (C-track)     5 m@ 25 °C       Cable weigh     63.3 g/m       Travel speed (C-track)     3.3 m/s @ 25 °C       Cable weigh     63.3 g/m       Travel speed (C-track)     3.3 m/s @ 25 °C       Strone hardness jacket     PUR       Shore hardness jacket     B9 Shore A       Freedom from ingredients (jacket)     6.7 mm       Tolerance outer diameter (jacket)     6.7 mm       Tolerance outer diameter (jacket)     6.7 mm       Cabler wein sulation     PE       Anount wires     4       Outer diameter (iselant)     1.4 mm       Outer diameter folerance con issulation     1.5 %       Shore hardness wire insulation     1.5 % Tore D       Diagredim freeness wire insulation     1.5 %       Tore diameter folerance core insulation<	Type of Certificate	cURus
Cable shielding (type)     copper braid, tinned       Cable shielding (coverage)     85 %       Banding     Fleec, Foil       Filler     yes       wite arrangement     white, yellow, blee, orange       Traversing distance (C-track)     5 m @ 25 °C       Travel speed (C-track)     3 Mo. @ 25 °C       Travel speed (C-track)     3 Mo. @ 25 °C       Material jackat     PUR       Shore hardness jackat     90 Shore A       Freedom from ingredients (jacket)     168 dree, cadmium-free, CFC-free, halogen-free, silicone-free       Outer -diameter (sheath)     ± 5 %       Material jacket     FRNC       Color (more jacket)     natur       Material inner jacket     FRNC       Color (more jacket)     natur       Material wire insulation     PE       Amount wires     4       Outer diameter insulation     1.4 mm       Outer diameter insulation     1.5 %       Shore hardness wire insulation     1.5 %       Onduct diameter insulation     1.4 mm       Outer diameter insulation     1.4 mm       Outer diameter insulation	Amount stranding	1
Cable shielding (type)     copper braid, tinned       Cable shielding (coverage)     85 %       Banding     Fleec, Foil       Filler     yes       wite arrangement     white, yellow, blee, orange       Traversing distance (C-track)     5 m @ 25 °C       Travel speed (C-track)     3 Mo. @ 25 °C       Travel speed (C-track)     3 Mo. @ 25 °C       Material jackat     PUR       Shore hardness jackat     90 Shore A       Freedom from ingredients (jacket)     168 dree, cadmium-free, CFC-free, halogen-free, silicone-free       Outer -diameter (sheath)     ± 5 %       Material jacket     FRNC       Color (more jacket)     natur       Material inner jacket     FRNC       Color (more jacket)     natur       Material wire insulation     PE       Amount wires     4       Outer diameter insulation     1.4 mm       Outer diameter insulation     1.5 %       Shore hardness wire insulation     1.5 %       Onduct diameter insulation     1.4 mm       Outer diameter insulation     1.4 mm       Outer diameter insulation		4 wires around Core filler twisted
Cable shielding (coverage)     85 %       Banding     Fleece, Fol       Filter     yes       wire arrangement     white, yellow, blue, orange       Traversing distance (C-track)     5 m @ 25 ° C       Travel speed (C-track)     3 m @ 25 ° C       Cable weigh     69,3 g/m       Travel speed (C-track)     3,3 m's @ 25 ° C       Material Jack     PUR       Shore hardness jacket     89 Shore A       Freedom from ingredients (jacket)     lead-free, cafnium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     6,7 mm       Tolerance outer diameter (sheatth)     ± 5 %       Material inner jacket     FNNC       Color (mer jacket)     natur       Material inner jacket     FNNC       Color (mer jacket)     1.4 mm       Outer diameter tolerance core insulation     1.5 %       Shore b D     Ingredient freeness wire insulation       User diameter insulation     1.4 mm       Outer diameter tolerance core insulation     1.6 %       Shore b D     Ingredient freeness wire insulation       Lorg presistance     5000 MQ ~ km		
Banding Fleece, Foll   Filler yes   wire arrangement white, yellow, blue, orange   Traversing distance (C-track) 5 m @ 25 °C   Cable weigth 69,3 g/m   Travel speed (C-track) 3,3 m's @ 25 °C   Cable weigth 69,3 g/m   Travel speed (C-track) 3,3 m's @ 25 °C   Material jacket PUR   Shore hardness jacket 89 Shore A   Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free   Outer-diameter (jacket) 6,7 mm   Tolerance outer diameter (sheath) ± 5 %   Material iner jacket FRNC   Color (inner jacket) natur   Material iner jacket FRNC   Color (inner jacket) 1.4 mm   Outer diameter insulation 1.4 mm   Outer diameter insulation 1.5 %   Shore hardness wire insulation 4   Outer diameter insulation 4.2 %   Outer diameter insulation 1.4 mm   Outer diameter insulation 4.2 %   Conductor consessection (wire) 22 AWG   Conductor consessection (wire) 22 AWG   Conductor consessection (wire) 22 AWG   Conductor consessection (wire) 4.3 A   Characteristic impadan		
Fileyeswire arrangementwhite, yellow, blue, orangeTraversing distance (C-track)5 m @ 25 °CCable weigh69.3 g/mCable weigh93.3 g/m @ 25 °CMaterial jacketPURShore hardness jacket89 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6.7 mmToravel speed (C-track)a.dt-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6.7 mmToraven courter diameter (sheath)1.5 %Material inner jacketFRNCColor (mer jacket)naturMaterial inner jacketFRNCColor (mer jacket)1.4 mmOuter diameter toisulation1.4 mmOuter diameter toisulation1.5 %Shore hardness wire insulation6.5 Shore DDiameter of single wires22 AWGConcurrence core insulation2.5 %Diameter of single wires22 AWGConductor crosssection (wire)22 AWGConductor wireStranded copper wire, bareLoop resistance500 M/Q x kmNominal voltage AC max.300 VCurrent load capacity (strandard)to DIN VDE 0298-4Current load capacity (strandard)to DIN VDE 0298-	Banding	
wire arrangementwhite, yellow, blue, orangeTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Mio. @ 25 °CCable weight69,3 g/mTravel speed (C-track)3,3 m's @ 25 °CMaterial jacketPURShore hardness jacket89 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, OFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6,7 mmTolerance outer diameter (sheatt)± 5 %Material inner jacketFRNCColor (mer jacket)naturMaterial inner jacketFRNCColor diameter (sheatt)± 5 %Material inner jacketFRNCColor diameter (sheatt)± 5 %Material inner jacketFRNCColor diameter (sheatt)± 5 %Shore hardness vire insulation1,4 mmOuter diameter tolerance core insulation± 5 %Shore hardness vire insulation1,4 mmOuter diameter tolerance core insulation± 5 %Shore hardness vire insulation1,4 mmOuter diameter tolerance core insulation± 2 AWGConductor crossection (wire)22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)22 AWGCurrent load capacity (standard)to DIN VDE 0288-4Current load capacity (standard)to DIN VDE 0288-4Current load capacity (standard)to DIN VDE 0288-4Current load capacity (wire-wire) $5000 \ 0 \pm 15 \% 010 \ 0 ML2$	Filler	
Traversing distance (C-track)5 m @ 25 °CTravel speed (C-track)3 Mio. @ 25 °CCable weigth69,3 g/mTravel speed (C-track)3,3 mis @ 25 °CMaterial jacketPURShore hardness jacket89 Shore AFreedom from ingredients (jacket)6,7 mmTolerance outer diameter (jacket)6,7 mmTolerance outer diameter (jacket)6,7 mmTolerance outer diameter (jacket)6,7 mmTolerance outer diameter (jacket)8,8 %Attrait inner jacketFRNCColor (inner jacket)naturMaterial inner jacketPEAmount wires4Outer diameter insulation9EAmount wires4Outer diameter insulation5 Shore DIngredient freeness wire insulation65 Shore DIngredient freeness wire insulation16 Shore DIngredient freeness wire insulation16 Shore DDameter of single wires22 AWGConductor crossesection (wire)22 AWGConductor wiresStanded copper wire, bareNominal voltage AC max.300 VCurrent load capacity (min. wire4,8 ACharacteristic impedance100 $\Omega \pm 15 \%$ 100 MHzElectrical resistance line constant wire55 $\Omega km @ 20 °C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity (min. wire2 kV @ 60 sAG2 kV @ 60 sMin. operating temperature (static)2 kV @ 60 s	-	
Travel speed (C-track)3 Mo. @ 25 °CCable weight63.3 g/mTravel speed (C-track)3.3 m/s @ 25 °CMaterial jacktPURShore hardness jacket89 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6.7 mmTolerance outer diameter (sheath)±5 %Material inner jacketFRNCColor (inner jacket)naturMaterial inner jacket7Material wire insulationPEAmount wires4Outer diameter (sinsulation)1.4 mmOuter diameter or insulation±5 %Shore hardness wire insulation±5 %Shore hardness wire insulation±5 %Outer diameter or insulation±5 %Shore hardness wire insulation±5 %Outer diameter or insulation±5 %Shore hardness wire insulation±5 %Shore hardness wire insulation±5 %Shore hardness wire insulation±6 Shore DOuter diameter of single wires±2 AWGConductor crossection (wire)±2 AWGMaterial conductor wireStranded copper wire, bareLoop resistance5000 MQ × kmNominal voltage AC max.300 VCurrent toad capacity (standard)to DIN VDE 0284-4Current toad capacity (machad)to DIN VDE 028-4Current toad capacity (machad)to DIN VDE 028-4Characteristic impedance100 Q ± 15 % @ 100 MHzElectricic lapacity line constant (wire - wire)	-	
Cable weigth69,3 g/mTravel speed (C-track)3,3 m/s @ 25 °CMaterial jacketPURShore hardness jacket89 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6,7 mmTolerance outer diameter (sheath) $\pm$ 5 %Material inner jacketFRNCColor (inner jacket)naturMaterial inner jacket)naturMaterial inner insulationPEAmount wires4Outer diameter insulation1,4 mmOuter diameter insulation55 Shore DShore bardness wire insulation65 Shore DOuter diameter insulation65 Shore DShore bardness wire insulation65 Shore DOuter diameter of single wires22 AWGConduct crossection (wire)22 AWGConductor crossection (wire)22 AWGConductor crossection (wire)22 AWGCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (marker wire)2 kV @ 60 sCharacteristic impedance100 $\Omega \pm 15 \%$ @ 100 MHzElectrical resistance line constant wire55 $\Omega Outo P C$ AC withstand voltage (wire - wire)2 kV @ 60 sCharacteristic impedance2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand volta	<b>9</b>	-
Travel speed (C-track)3.3 m's @ 25 °CMaterial jacketPURShore hardness jacket89 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket)6.7 mmTolerance outer diameter (sheath) $\pm$ 5 %Material inner jacketFRNCColor (inner jacket)naturMaterial inner jacketPEAmount wires4Outer diameter (sheath) $\pm$ 5 %Shore hardness wire insulationPEAmount wires4Outer diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation5 Shore DIngredient freeness wire insulation1.4 mmOuter diameter tolerance core insulation $\pm$ 5 %Conductor coressection (wire)7Diameter of single wires22 AWGConductor coressection (wire)22 AWGConductor or wireStranded copper wire, bareLoop resistance5000 MQ × kmNominal voltage AC max.300 VCurrent load capacity min. wire4.8 ACharacteristic impedance100 Q $\pm$ 15 % @ 100 MHzElectrical resistance line constant wire $55  Q MO = 0$ Characteristic impedance100 Q $\pm$ 15 % @ 100 MHzElectrical resistance line constant (wire - wire) $2  kV @ 60  s$ AC withstand voltage (wire - wire) $2  kV @ 60  s$ AC withstand voltage (wire - shield) $2  kV @ 60  s$ AC withstand voltage (wire - shield) $2  kV @ 60  s$ <td></td> <td></td>		
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Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket) $6,7$ mmTolerance outer diameter (sheath) $\pm 5$ %Material inner jacketFRNCColor (inner jacket)naturMaterial wire insulationPEAmount wires4Outer diameter tolerance core insulation $\pm 5$ %Shore hardness wire insulation $\pm 5$ %Shore hardness wire insulation $\pm 5$ %Outer diameter tolerance core insulation $\pm 5$ %Shore hardness wire insulation $\pm 5$ %Shore hardness wire insulation $\pm 5$ %Outer diameter tolerance core insulation $\pm 5$ %Shore hardness wire insulation $\pm 6$ %Shore hardness wire insulation $\pm 6$ %Diameter of single wires $22$ AWGConductor crossection (wire) $22$ AWGConductor wireStranded copper wire, bareLoop resistance $5000$ MQ × kmNominal voltage AC max. $300$ VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Characteristic impedance $100 \ L \pm 5 \%$ % 100 MHzElectrical resistance line constant wire $5 \ D/km @ 20 \ ^{C}$ AC withstand voltage (wire - wire) $2 \ kV @ 60 \ s$ Electrical capacity line constant (wire - wire) $2 \ kV @ 60 \ s$ AC withstand voltage (wire - shield) $2 \ kV @ 60 \ s$ AC withstand voltage (wire - shield) $2 \ kV @ 60 \ s$ AC withstand voltage (wire - sh		
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Shore hardness wire insulation65 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGConductor wireStranded copper wire, bareLoop resistance5000 M $\Omega \times km$ Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Characteristic impedance100 $\Omega \pm 15 \% @ 100$ MHzElectrical resistance line constant wire55 $\Omega / km @ 20 ~ C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - apacity withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °C	Outer diameter insulation	1,4 mm
Ingredient freeness wire insulationlead-free, CFC-free, halogen-freeAmount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareLoop resistance5000 M $\Omega \times km$ Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% @ 100$ MHzElectrical resistance line constant wire55 $\Omega/km @ 20 °C$ AC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity link ovitage (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °C	Outer diameter tolerance core insulation	±5%
Amount strands (wire)7Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareLoop resistance5000 MQ × kmNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 ACharacteristic impedance100 Q ± 15 % @ 100 MHzElectrical resistance line constant wire55 Q/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °C	Shore hardness wire insulation	65 Shore D
Diameter of single wires22 AWGConductor crosssection (wire)22 AWGMaterial conductor wireStranded copper wire, bareLoop resistance5000 M $\Omega \times km$ Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 ACharacteristic impedance100 $\Omega \pm 15 \% @$ 100 MHzElectrical resistance line constant wire55 $\Omega/km @$ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - aire)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °C	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
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Material conductor wireStranded copper wire, bareLoop resistance $5000 \text{ M}\Omega \times \text{km}$ Nominal voltage AC max. $300 \text{ V}$ Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire $4,8 \text{ A}$ Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °C$ AC withstand voltage (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV } @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV } @ 60 \text{ s}$ Min. operating temperature (static) $-40 °C$	Diameter of single wires	22 AWG
Loop resistance5000 MΩ × kmNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 ACharacteristic impedance100 Ω ± 15 % @ 100 MHzElectrical resistance line constant wire55 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °C	Conductor crosssection (wire)	22 AWG
Loop resistance5000 MΩ × kmNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 ACharacteristic impedance100 Ω ± 15 % @ 100 MHzElectrical resistance line constant wire55 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sElectrical capacity line constant (wire - wire)50000 pF/kmPower frequency withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °C	Material conductor wire	Stranded copper wire, bare
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Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega/\text{km} @ 20 °C$ AC withstand voltage (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ Electrical capacity line constant (wire - wire) $50000 \text{ pF/km}$ Power frequency withstand voltage (wire - jacket) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static)-40 °C	Current load capacity min. wire	
Electrical resistance line constant wire   55 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Electrical capacity line constant (wire - wire)   50000 pF/km     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     Min. operating temperature (static)   -40 °C		·
AC withstand voltage (wire - wire)   2 kV @ 60 s     Electrical capacity line constant (wire - wire)   50000 pF/km     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     Min. operating temperature (static)   -40 °C	Electrical resistance line constant wire	
Electrical capacity line constant (wire - wire)   50000 pF/km     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     Min. operating temperature (static)   -40 °C		
Power frequency withstand voltage (wire - gacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     Min. operating temperature (static)   -40 °C		
AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C	Power frequency withstand voltage (wire -	
Min. operating temperature (static) -40 °C	jacket)	
Max. operating temperature (fixed) 80 °C	Min. operating temperature (static)	
	Max. operating temperature (fixed)	2° 08

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Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	12 x Outer diameter
No. of torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m

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