

3

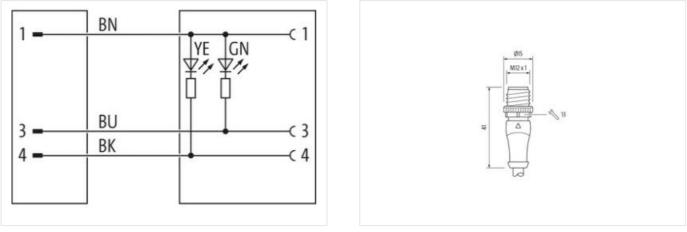
M12 MALE 0° / M8 FEMALE 90° LED

PUR 3X0.34 orange UL/CSA, ROBOT, drag ch 0.6m

Male straight – female 90° M12 – M8, 3-pole 2× LED (PNP), (NPN) 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

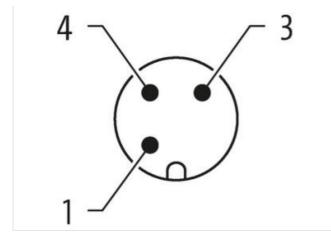


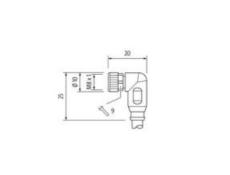


The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-04-25

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Product may differ from Image



Cable length	0,6 m
Side 1	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
Degree of protection (EN IEC 60529)	IP66K, IP67
Side 2	
Tightening torque	0,4 Nm
Family construction form	M8
Thread	M8 x 1
Degree of protection (EN IEC 60529)	IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879450072
Packaging unit	1
Electrical data Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Mechanical data Material data	
Coating locking	safe-cover coated
Locking material	Zinc die-casting
Mechanical data Mounting data	

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Mounting method

inserted, screwed, Shaking protection

paperating temperature max.25 °Coperating temperature max.85 °Cobtional condition temperature max.6000 mig on cable qualityinstallation (Cable)445Sable Starffaction645Sable Type Of Certification0.01% isoperating temperature galaxies0.01% isyear Of Certification0.01% isis analog0.01% isyear Of Certification0.01% isis analog0.01% is<	Environmental characteristics Olivertia	
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wire arrangement brown, black, blue is. of bending cycles (C-track) 10 Mio. @ 25 °C able weight 33 g/m Ataterial jacket PUR bittore hardness jacket 54 ± 5 Shore D readom from fingedients (jacket) 4.5 mm Collected control 4.5 mm Collected control 5 % Caleration vire insulation PP timourt strated vire insulation 1.25 mm Duter diameter insulation 1.25 mm Duter diameter insulation 73 ± 5 Shore D graged wire insulation 84 deve Viret diameter insulation 1.24 mm ² Viret diameter insulation 1.25 mm Duriet diameter insulation 1.25 mm Duriet diameter insulation 1.24 mm ² Viret diameter insulation 1.24 mm ² Diameter insulation 1.25 mm Diameter issilation 0.1 mm <t< td=""><td>Amount stranding</td><td>1</td></t<>	Amount stranding	1
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Sable weight 33 g/m Attacrial jacket PUR Thore hardness jacket 54 ± 5 Shore D Freedom from ingradients (jacket) lead free, cadmium-free, CFC-free, halogen-free Utter diameter (jacket) 4 5 mm Operance outer diameter (sheath) 5 % Ataerial wire insulation PP Unrer diameter insulation 1 25 mm Duter diameter tolerance core insulation 1 5 % Material wire insulation 1 25 mm Duter diameter tolerance core insulation 1 5 % Shore hardness wire insulation 1 25 mm Duter diameter tolerance core insulation 1 25 mm Diameter of single wires 0.1 mm Donductor crosssection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Dardnet of single wires 0.1 mm Donductor crosssection (wire) 5 m @ 25 °C horizontal Durrent tod capacity (standard) to DINV DE 0298 4 Durrent tod capacity (standard) to DINV DE 0298 4 Durrent tod capacity (standard) to DINV DE 0298 4 Durrent tod capacity (standard) <	wire arrangement	brown, black, blue
Ataterial jacket PUR Bibrer hardness jacket 54 5 Shore D readem from ingredients (jacket) Isathree, cadmum-free, CFC-free, halogen-free, silicone-free Duter-diameter (jacket) 4.5 mm olerance outer diameter (sheath) ± 5 % Atatrial wire insulation PP mount wires 3 Duter diameter isulation 1.25 mm Duter diameter isulation 1.35 % Store hardness wire insulation 18ad-free, cadmium-free, CFC-free, halogen-free, silicone-free manut strands (wire) 42 Daneter of single wires 0,1 mm Conductor crossection (wire) 0,34 mm ² Conductor wire Stranded copper wire, bare Conductor wire Stranded case 6 Tarversing distance (C-track) 5 m @ 25 °C horizontal Durer toad capacity (wire) 6 A Celtricitar esistance line constant wire 6 O O/km @ 20 °C	No. of bending cycles (C-track)	10 Mio. @ 25 °C
Shore hardness jacket 54 ± 5 Shore D reedom from ingredients (jacket) lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free Dater-diameter (jacket) 4,5 mm Oberance outer diameter (sheath) ± 5 % Ataerial wire insulation PP Vater diameter insulation 1,25 mm Dater diameter tolerance core insulation ± 5 % Uter diameter tolerance core insulation ± 5 % Dater diameter tolerance core insulation ± 5 % Shore hardness wire insulation 73 ± 5 Shore D ngredent freeness wire insulation lead-ree, cadmium-free, CFC-free, halogen-free, silicone-free mount strands (wire) 42 Parameter of single wires 0,1 mm Conductor vise Stranded copper wire, bare Conductor vise Stranded copper wire, bare Conductor vire 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0288-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 60 Q/km @ 20 °C Korinal voltage power AC max. 300 V Power frequency linibland voltage power (wire - wire) </td <td>Cable weigth</td> <td>33 g/m</td>	Cable weigth	33 g/m
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Duter-diameter (jacket) 4,5 mm Olerance outer diameter (sheath) ± 5 % Ataterial wire insulation PP mount Wires 3 Duter diameter (sheath) ± 5 % Duter diameter insulation 1,25 mm Duter diameter insulation 5 % Bhore hardness wire insulation 73 ± 5 Shore D Ingredient freeness wire insulation 73 ± 5 Shore D Ingredient freeness wire insulation 74 ± 5 % Diameter of single wires 0,1 mm Diameter of single wires 0,1 mm Diameter of single wires 0,1 mm Donductor crossection (wire) 0,34 mm² Atarial conductor wire Stranded copper wire, bare Donductor type (wire) strand class 6 Traversing distance (Inc constant wire 6 Δ Durent load capacity (standard) to DIN VDE 028-4 Durent load capacity (wine Areax. 300 V Prower frequency withstand voltage power 2,5 kV @ 60 s Alin: operating temperature (static) 40 °C Cwithstand voltage power 2,5 kV @ 60 s Alin. operating t	Shore hardness jacket	54 ± 5 Shore D
Duter-diameter (jacket) 4,5 mm Olerance outer diameter (sheath) ± 5 % Ataterial wire insulation PP mount Wires 3 Duter diameter (sheath) ± 5 % Duter diameter insulation 1,25 mm Duter diameter insulation 5 % Bhore hardness wire insulation 73 ± 5 Shore D Ingredient freeness wire insulation 73 ± 5 Shore D Ingredient freeness wire insulation 74 ± 5 % Diameter of single wires 0,1 mm Diameter of single wires 0,1 mm Diameter of single wires 0,1 mm Donductor crossection (wire) 0,34 mm² Atarial conductor wire Stranded copper wire, bare Donductor type (wire) strand class 6 Traversing distance (Inc constant wire 6 Δ Durent load capacity (standard) to DIN VDE 028-4 Durent load capacity (wine Areax. 300 V Prower frequency withstand voltage power 2,5 kV @ 60 s Alin: operating temperature (static) 40 °C Cwithstand voltage power 2,5 kV @ 60 s Alin. operating t	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Ataterial wire insulation PP umount wires 3 Duter diameter insulation 1.25 mm Utuer diameter folerance core insulation 73 ± 5 Shore D shore hardness wire insulation 73 ± 5 Shore D ingredient feeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free unount strands (wire) 42 Jameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm ² Standed copper wire, bare Stranded copper wire, bare Sonductor wire Stranded copper wire, bare Core to constant wire 6 A Carrent Load capacity (standard) to DIN VDE 0298-4 Current Load capacity (stan	Outer-diameter (jacket)	4,5 mm
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Duter diameter insulation 1.25 mm Duter diameter insulation ± 5 % Shore hardness wire insulation 73 ± 5 Shore D ngredient freeness wire insulation 184-free, cadmium-free, CFC-free, halogen-free, silicone-free mount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crossection (wire) 0.34 mm² Aaterial conductor wire Stranded copper wire, bare Sonductor type (wire) stranded copper wire, bare Sonductor type (wire) stranded copper wire, bare Conductor type (wire) stranded copper wire, bare Content toad capacity (standard) to DIN VDE 0298-4 Current toad capacity (standard) to DIN w@ 20 °C Iorrent toad capacity (standard) to DIV m @ 20 °C Stare (standard vo	Material wire insulation	PP
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Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeVmount strands (wire)42Diameter of single wires0,1 mmSonductor crossection (wire)0,34 mm²Alterial conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)6 ACicical resistance line constant wire60 Q/km @ 20 °CComminal voltage power AC max.300 VPower frequency withstand voltage power (wire - wire)2,5 kV @ 60 sAlin. operating temperature (static)-40 °CAax. operating temperature (static)-40 °CAax. operating temperature min. (dynamic)-25 °COperating temperature min. (dynamic)-25 °COperating temperature min. (dynamic)-25 °COperation80 °C / 90 °C @ 10000 h OperationHame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2hemical resistanceGood, application-related testingSacoline resistanceDIN EN 60811-404 Good, application-related testingSacoline resistanceDIN EN 60811-404 Good, application-related testingSi outer diameterAouter diameterBending radius (fixed)5 × Cuter diameterBending radius (fixed)5 × Cuter diameterSo outer diameterI No.Couter diameterSo yceles/min<	Outer diameter tolerance core insulation	±5%
Immount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Ataterial conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (min. wire) 6 A Current load capacity (wire wire) 2,5 kV @ 60 s Wire - jackel) 20 V Power frequency withstand voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Aax. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation	Shore hardness wire insulation	73 ± 5 Shore D
Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Ataterial conductor wire Stranded copper wire, bare Sonductor type (wire) strand class 6 Conductor type (wire) strand class 6 Varent load capacity (strandard) to DIN VDE 0298-4 Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 60 Ω/km @ 20 °C Jorninal voltage power AC max. 300 V Power frequency withstand voltage power wire - xire) 2,5 kV @ 60 s Wire - jacket) 2,5 kV @ 60 s Min - operating temperature (static) -40 °C Aax. operating temperature (static) -40 °C Doperating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) -25 °C Opperating temperature (mixed) 80 °C / 90 °C @ 10000 h Operation Diparating temperature min. (dynamic) 25 °C Opperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Tame resistance Good, application-related testing Dia socinter rel	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Donductor crosssection (wire) 0,34 mm² Ataterial conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 6 A Electrical resistance line constant wire 60 Q/km @ 20 °C Jornial voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s KC withstand voltage power (wire - wire) 2,5 kV @ 60 s Lin. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (mixe) 40 °C Asx. operating temperature (mixe) 80 °C / 90 °C @ 10000 h Operation Operating temperature (mixe) 80 °C / 90 °C @ 10000 h Operation Operating temperature fixed) 80 °C / 90 °C @ 10000 h Operation Deperating temperature fixed) 80 °C / 90 °C @ 10000 h Operation Deperating temperature fixed 60 od, application-related testing Date resistance Good, application-related testing Basoline resistance Good, application-related testing Dil resistanc	Amount strands (wire)	42
Atterial conductor wire Strande copper wire, bare Sonductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C horizontal Durrent load capacity (standard) to DIN VDE 0298-4 Durrent load capacity (standard) to DIN VDE 0298-4 Durrent load capacity min. wire 6 A Electrical resistance line constant wire 60 Ω/km @ 20 °C dominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s vire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Aax. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Opperating temperature min. (dynamic) -25 °C Opperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Paime resistance Good, application-related testing Basoline resistance Good, application-related testing Basoline resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Rending radius (dynamic) 10 x Outer diameter Not. of torsion cycles 1 Mio.	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6 'raversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 60 Q/km @ 20 °C Jominal voltage power AC max. 300 V Power frequency withstand voltage power wire - jackt) 2,5 kV @ 60 s VC withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Aax. 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 'allame resistance Good, application-related testing Basoline resistance Good, application-related testing Dil resistance Good, application-related testing Dil resistance Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Dil residance	Conductor crosssection (wire)	0,34 mm ²
Traversing distance (C-track) 5 m @ 25 °C horizontal Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 6 A Electrical resistance line constant wire 60 Ω/km @ 20 °C Iominal voltage power AC max. 300 V Power frequency withstand voltage power wire - jacket) 2,5 kV @ 60 s KC withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Aax. operating temperature (static) -40 °C Aax. 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 Iame resistance Good, application-related testing Abasoline resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 hemical resistance Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Aending radius (fixed) 5 x Outer diameter Rending radius (dynamic) 10 x Outer diameter Ao of torsion cycles 1 Mio. <td>Material conductor wire</td> <td>Stranded copper wire, bare</td>	Material conductor wire	Stranded copper wire, bare
Durrent load capacity (standard) to DIN VDE 0298-4 Durrent load capacity min. wire 6 A Electrical resistance line constant wire 60 Ω/km @ 20 °C Iominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s VC withstand voltage power (wire - wire) 2,5 kV @ 60 s VL withstand voltage power (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Aax. operating temperature (static) -40 °C Aax. 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 Iame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 themical resistance Good, application-related testing Sasoline resistance Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Sasoline resistance DIN EN 60811-404 Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Sending radius (fixed) 5 x Outer diameter <	Conductor type (wire)	strand class 6
Current load capacity min. wire 6 A Electrical resistance line constant wire 60 Ω/km @ 20 °C Jominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 2,5 kV @ 60 s Jin. operating temperature (static) -40 °C Aax. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Deperating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 hemical resistance Good, application-related testing Sasoline resistance Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Sanding radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Autor of this on cycles 1 Mio.	Traversing distance (C-track)	5 m @ 25 °C horizontal
Electrical resistance line constant wire 60 Ω/km @ 20 °C Jominal voltage power AC max. 300 V Power frequency withstand voltage power 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 2,5 kV @ 60 s Jin. operating temperature (static) -40 °C Aax. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Sasoline resistance Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Sending radius (fixed) 5 x Outer diameter Aending radius (dynamic) 10 x Outer diameter Ao. of torsion cycles 1 Mio. Torsion speed 35 cycles/min	Current load capacity (standard)	to DIN VDE 0298-4
Adminal voltage power AC max.300 VPower frequency withstand voltage power wire - jacket)2,5 kV @ 60 sAc withstand voltage power (wire - wire)2,5 kV @ 60 sAc withstand voltage power (wire - wire)2,5 kV @ 60 sAin. operating temperature (static)-40 °CAax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h Operation-Tame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2whemical resistanceGood, application-related testingBasoline resistanceGood, application-related testingDil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)10 x Outer diameterAc. of torsion cycles1 Mio.Torsion speed35 cycles/min	Current load capacity min. wire	6 A
Power frequency withstand voltage power wire - jacket)2,5 kV @ 60 sAC withstand voltage power (wire - wire)2,5 kV @ 60 sAin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationHemical resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2hemical resistanceGood, application-related testingDil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameter40. of torsion cycles1 Mio.Torsion speed35 cycles/min	Electrical resistance line constant wire	60 Ω/km @ 20 °C
wire - jacket) 2,5 kV @ 60 s AC withstand voltage power (wire - wire) 2,5 kV @ 60 s Ain. 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 Tame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 hemical resistance Good, application-related testing Basoline resistance Good, application-related testing Dil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter 40. of torsion cycles 1 Mio. Forsion speed 35 cycles/min	Nominal voltage power AC max.	300 V
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Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 1 Mio. Forsion speed 35 cycles/min	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter No. of torsion cycles 1 Mio. Torsion speed 35 cycles/min	Oil resistance	DIN EN 60811-404 Good, application-related testing
Image: No. of torsion cycles 1 Mio. Torsion speed 35 cycles/min	Bending radius (fixed)	5 x Outer diameter
orsion speed 35 cycles/min	Bending radius (dynamic)	10 x Outer diameter
	No. of torsion cycles	1 Mio.
orsion stress ± 360 °/m	Torsion speed	35 cycles/min
	Torsion stress	± 360 °/m

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: 2024-04-25

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