

## MVP-METALL, 4XM12, 5POLE, PRE-WIRED CABLE

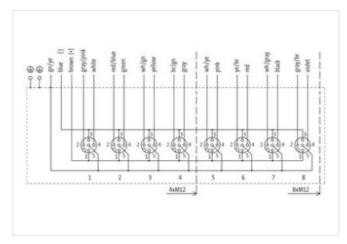
15.0m PUR 8x0,5+3x1,0, UL/CSA

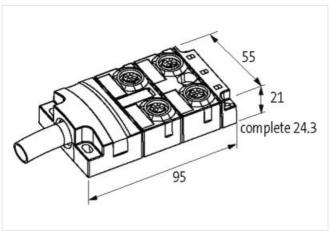
4-way, 5-pole Without LED for analog signals up to 48 V AC/DC Further cable lengths on request. Replaces identical product (Art.No. 27479)

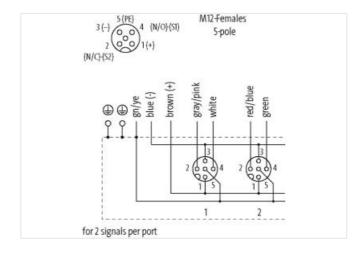
## **Link to Product**

## Illustration









Product may differ from Image









Commercial data		
ECLASS-6.0	27279219	
ECLASS-6.1	27279219	
ECLASS-7.0	27279219	
ECLASS-8.0	27279219	
ECLASS-9.0	27440108	



stay connected

ECLASS-10.1	27440108
ECLASS-11.1	27440108
ECLASS-12.0	27440108
ETIM-5.0	EC002585
customs tariff number	85444290
GTIN	4048879350945
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	48 V
Operating voltage DC max.	48 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67, IP68
Mechanical data   Material data	
Coating housing	Nickeled
Material housing	Zinc die-casting
	Zilic die-casting
Mechanical data   Mounting data	
Mounting method	Schraubgewinde
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	90 °C
Additional condition temperature range	depending on cable quality
Installation   Cable	
Cable identification	448
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires with Filler twisted
Stranding factor min.	51 mm
Stranding factor max.	51 mm
Amount stranding (type 2)	1
Stranding (type 2)	9 wires around Stranding combination counter-rotating twisted
Stranding factor min. (type 2)	100 mm
Stranding factor max. (type 2)	100 mm
Banding	Fleece
Filler	yes
wire arrangement	white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green)
Cable weigth	146,3 g/m
Material jacket	PUR
Shore hardness jacket	94 ± 5 Shore A
	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Freedom from ingredients (jacket)	leau-free, Caumium-free, GFG-free, halogen-free, Silicone-free, LABS-free
Freedom from ingredients (jacket)  Outer-diameter (jacket)	9 mm
	<del>_</del>
Outer-diameter (jacket)	9 mm
Outer-diameter (jacket) Tolerance outer diameter (sheath)	9 mm ± 5 %
Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation	9 mm ± 5 % TPE-E
Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	9 mm ± 5 % TPE-E 8
Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	9 mm ± 5 % TPE-E 8 1,6 mm
Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	9 mm ± 5 % TPE-E 8 1,6 mm ± 5 %



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Diameter of single wires   0,1 mm	Assessment about the feetings	
Conductor properties   Conductor wire   Conductor properties   Conductor type (Wire)   Stranded copper wire, bare   Conductor type (Wire)   Conductor wire insulation (Clasta)   2.1 mm   Conductor wire insulation (Data)   5.5 %   Shore D   Conductor wire insulation (Data)   Stranded copper wire (Conductor type (Data)   Stranded copper wire, bare   Conductor type (Data)   Stranded copper (Data)   Stranded copper wire, bare   Conductor type (Data)   Str	Amount strands (wire)	64
Meterial conductor virge (wire) stranded copper wire, bare Conductor type (wire) strand class 6  Chord content content (Data) TRE E  Cuter disameter wire insulation (Data) 75 S  Shore Inadiness wire insulation (Data) 75 S  Shore Inadiation (Data) 75 S  Shore I		_ ·
Conductor type (wive)		·
Meterial wire insulation (Data)   TPEE		······································
Outer diameter wire insulation (Data)         2.1 mm           Tolerance outer diameter wire insulation (Clata)         4.5 %           Shorn hardrass wire insulation (Data)         55.4 3 store D           Ingredient freeness wire insulation (Data)         1824 free, cadmium-free, CFC free, halogen-free, silicone-free, LABS-free           Amount wires (Data)         3           Diameter of single wires (Data)         0.1 mm           Contractior consection wire (Data)         1 mm²           Material conductor wire (Data)         5 mm²           Wire conductor type (Data)         5 mm²           Max. rade voltage (conductor - conductor)         500 V           Max. rade voltage (conductor - conductor)         500 V           Max. rade voltage (conductor - conductor)         500 V           Current load capacity min. wire         59 A           Current load capacity min. wire         59 A           Current load capacity min. wire (Data)         15 A           Electrical resistance ine constant wire         39 Cikm @ 20 °C           Electrical resistance ine constant wire         39 Cikm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Max. operating temperature (state)         40 °C           Operating temperature (state)         90 °C           Operating temperature		strand class 6
Toerance outer diameter wire insulation (Data)         5.5 ± 3 Shore D           Ingredient freeness wire insulation (Data)         15.5 ± 3 Shore D           Ingredient freeness wire insulation (Data)         15.5 ± 3 Shore D           Ingredient freeness wire insulation (Data)         1.8           Amount wires (Data)         1.8           Diameter of single wires (Data)         0.1 mm           Conductor respections wire (Data)         1.1 mm²           Conductor wire (Data)         5 strand class 6           Wire conductor type (Data)         50 V           Max. rated voltage (conductor - conductor)         50 V           Active and capacity (standard)         10 DIN VID C288-4           Current load capacity (standard)         10 DIN VID C288-4           Current load capacity (standard)         10 DIN VID C288-4           Current load capacity (standard)         15 A           Electrical resistance (since constant wire (Data)         20 DIN m @ 20 °C           Electrical resistance (since constant wire (Data)         20 DIN m @ 20 °C           Electrical resistance (since constant wire (Data)         20 °C	Material wire insulation (Data)	TPE-E
Shore hardness wire insulation (Data)   55 ± 3 Shore D	Outer diameter wire insulation (Data)	2,1 mm
Ingredient freeness wire insulation (Data)   Isea free, cadmium free, CFC free, halogen free, Silicone free, LABS free	Tolerance outer diameter wire insulation (data)	±5%
Amount strands wire (Data) 3 Amount strands wire (Data) 0.1 mm Conductor crosssection wire (Data) 1 mm² Malerial conductor wire (Data) 5 manded copper wire, bare Wire conductor type (Data) 5 stranded copper wire, bare Wire conductor type (Data) 5 stranded copper wire, bare Wire conductor type (Data) 500 V Max. radad voltage (conductor - conductor) 500 V Current load capacity (strandard) 500 V Current load capacity (strandard) 500 V Current load capacity (strandard) 15 A Electrical resistance or inne constant wire 5,9 A Electrical resistance or calling wire (Data) 20 V Electrical resistance or calling wire (Data) 20 V Commit load capacity min. Wire (Data) 20 V Electrical resistance or calling wire (Data) 20 V Commit load capacity min. Wire (Data) 20 V Electrical resistance or calling w	Shore hardness wire insulation (Data)	55 ± 3 Shore D
Amount strands wire (Data)         128           Diameter of single wires (Data)         0,1 mm           Conductor rossecution wire (Data)         1 mm²           Material conductor were (Data)         Strand dosper wire, bare           Wire conductor ryee (Data)         Strand class 6           Max. rated voltage (conductor- conductor)         500 V           Max. rated voltage (conductor- ground)         300 V           Current load capacity (standard)         to DIN VDE 0298 4           Current load capacity min. wire         5,9 A           Current load capacity min. wire         5,9 A           Current load capacity min. wire         20 Dixm @ 20 °C           Electrical resistance coating wire (Data)         15 A           Electrical resistance coating wire (Data)         20 Dixm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 80 s           Power frequency withstand voltage (wire - wire)         2 kV @ 80 s           Max. operating temperature fix (static)         40 °C           Max. operating temperature max. (synamic)         90 °C           Operating temperature max. (synamic)         90 °C           Filmor esistance         U. 1.581 § 190   U. 1.581 § 1100   ET2   I.EC 60332.2.2           Chemical resistance         Good, application-related testing           Oil resist	Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Diameter of single wires (Data)         0,1 mm           Conductor crosssection wire (Data)         I mm²           Marcinal conductor wire (Data)         stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Max. radd voltage (conductor - conductor)         500 V           Aux. radd voltage (conductor - conductor)         500 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         15 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         20 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - giver)         2 kV @ 60 s           Min. operating temperature (staltc)         40 °C           Max. operating temperature (staltc)         40 °C           Morrenting temperature (itend)         90 °C           Operating temperature min. (synamic)         40 °C           Operating temperature min. (synamic)         40 °C           Operating temperature min. (synamic)         40 °C           Gasoline resistance         Good, application-related testing           Gir resistance         Good, application-related testing           Bending radius	Amount wires (Data)	3
Conductor crosssection wire (Ditals)         1 mm²           Material conductor wire (Ditals)         Stranded copper wire, bare           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - conductor)         500 V           Max. rated voltage (conductor - conductor)         500 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         5,9 A           Current load capacity min. wire (Data)         15 A           Electrical resistance coacing wire (Pata)         20 km @ 20 °C           Electrical resistance coacing wire (Data)         20 km @ 20 °C           AC withstand voltage (wire - wire)         24 k/@ 60 s           Power frequency withstand voltage (wire - jacket)         24 k/@ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature min. (dynamic)         90 °C           Operating temperature min. (dynamic)         90 °C           Power frequency withstance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2.2           Chamical resistance         Good, application-related testing           Operating temperature min. (dynamic)         10 °C           Comminical resistance         Good, application-r	Amount strands wire (Data)	128
Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         15 A           Current load capacity min. Wire (Data)         15 A           Electrical resistance line constant wire         39 G/km @ 20 °C           Electrical resistance coating wire (Data)         20 G/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Operating temperature max. (dynamic)         90 °C           Operating temperature min. (dynamic)         90 °C           In resistance	Diameter of single wires (Data)	0,1 mm
Wire conductor type (Data)         strand class 6           Max. rated voltage (conductor - conductor)         500 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire         5.9 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coasing wire (Data)         20 Ω/km @ 20 °C           Electrical resistance coasing wire (Data)         2 kV @ 60 s           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - yielded)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Subject (wire - wire)         2 kV @ 60 s	Conductor crosssection wire (Data)	1 mm²
Max. rated voltage (conductor - ground)         500 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity standards)         to DIN VDE 0298-4           Current load capacity min. wire         5,9 A           Current load capacity min. Wire (Data)         15 A           Electrical resistance line constant wire         30 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         20 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         40 °C           Max. operating temperature (tixed)         90 °C           Operating temperature (tixed)         90 °C           Operating temperature max. (dynamic)         90 °C           Operating temperature max. (dynamic)         90 °C           Flame resistance         U1 581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2 2           chemical resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application related testing           Bending radius (installation)         x Outer diameter           Bending radius (gynamic)         10 x Outer diameter           Bending radius (gynamic)         10 x Outer diameter           Bending radius (gynamic)         10 x Outer diameter      <	Material conductor wire (Data)	Stranded copper wire, bare
Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         15 A           Electrical resistance constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         20 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (fixed)         90 °C           Max. operating temperature (fixed)         90 °C           Operating temperature mix. (dynamic)         90 °C           Operating temperature mix. (dynamic)         90 °C           Flame resistance         UL 1581 § 1990   UL 1581 § 1100 FT2   IEC 60332-2-2           Gasoline resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Bending radius (fixed)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (gynamic)         10 x Outer diameter           Bending radius (gynamic)         10 x Outer diameter	Wire conductor type (Data)	strand class 6
Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         15 A           Electrical resistance constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         20 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Min. operating temperature (fixed)         90 °C           Max. operating temperature (fixed)         90 °C           Operating temperature mix. (dynamic)         90 °C           Operating temperature mix. (dynamic)         90 °C           Flame resistance         UL 1581 § 1990   UL 1581 § 1100 FT2   IEC 60332-2-2           Gasoline resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Bending radius (fixed)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (gynamic)         10 x Outer diameter           Bending radius (gynamic)         10 x Outer diameter	Max. rated voltage (conductor - conductor)	500 V
Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire         5,9 A           Current load capacity min. Wire (Data)         15 A           Electrical resistance line constant wire         39 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         20 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - yiacket)         2 kV @ 60 s           Power frequency withstand voltage (wire - yiacket)         2 kV @ 60 s           Mm. operating temperature (static)         40 °C           Max. operating temperature (sted)         90 °C           Operating temperature max. (dynamic)         40 °C           Operating temperature max. (dynamic)         90 °C           Chair are esistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60911-404 [ Good, application-related testing           Bending radius (ifixed)         x Outer diameter           Bending radius (ifixed)         x Outer diameter           Bending radius (givamic)         10 x Outer diameter           Bending radius (givamic)         5 Mio. @ 25 °C           Travel spead (C-track)         5 Mio. @ 25 °C		300 V
Current load capacity min. wire         5,9 A           Current load capacity min. Wire (Data)         15 A           Electrical resistance line constant wire         39 0/km @ 20 °C           Electrical resistance coating wire (Data)         20 0/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - ispace)         2 kV @ 60 s           Flower frequency withstand voltage (wire - ispace)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Operating temperature (static)         -40 °C           Operating temperature min. (dynamic)         -40 °C           Operating temperature min. (dynamic)         90 °C           Plame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gardius (installation)         x Outer diameter           Bending radius (fixed)         x No. @ 2 m's @ 25 °C           Trav		to DIN VDE 0298-4
Current load capacity min. Wire (Data)         15 A           Electrical resistance line constant wire         39 0/km @ 20 °C           Electrical resistance coating wire (Data)         20 0/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - lacket)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         -40 °C           Operating temperature max. (dynamic)         90 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2:2           chemical resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404 [ Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           No. of poles         16           Family construction form         free cable end           No. of poles         16           Family construction form <td< td=""><td></td><td>5,9 A</td></td<>		5,9 A
Electrical resistance coating wire (Data)         20 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         40 °C           Operating temperature max. (dynamic)         90 °C           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         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (dynamic)         x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           No. of brosin cycles         0.5 Mio.           Torsion stress         ± 180 °/m           Control type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gen	Current load capacity min. Wire (Data)	15 A
AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         90 °C           Operating temperature fixed)         90 °C           Operating temperature min. (dynamic)         90 °C           Operating temperature min. (dynamic)         90 °C           Operating temperature min. (dynamic)         90 °C           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         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio. @ 25 °C           Torsion stress         ± 180 °/m           Connection type 2         16           Family construction form         M12           Gender         female           Color	Electrical resistance line constant wire	39 Ω/km @ 20 °C
AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  Min. operating temperature (static) 40 °C  Max. operating temperature (fixed) 90 °C  Operating temperature (mix. (dynamic) 40 °C  Operating temperature mix. (dynamic) 90 °C  Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  chemical resistance Good, application-related testing  Gasoline resistance Din Ex 160811-404   Good, application-related testing  Gasoline resistance Din Ex 160811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) x Outer diameter  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  Travel speed (C-track) 2 m's @ 25 °C  No. of torsion cycles C-track) 15 Mio. ?  Connection type 2  Family construction form free cable end  No. of poles 16  Family construction form M12  Gender female  Color contact carrier black  Coding A  No. of poles 5  FIN 1 +  FIN 2 NC S 2  FIN 3 -  FIN 3 NC S 1	Electrical resistance coating wire (Data)	20 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)         2 kV @ 60 s           jacket)         40 °C           Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         40 °C           Operating temperature max. (dynamic)         90 °C           Operating temperature max. (dynamic)         90 °C           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         DIN EN 60811-404 [Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @25 °C           Tavel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0.5 Mio.           Torsion stress         ± 180 °/m           Control type 2         Emily construction form         M12           Family construction form         M12           Gender         1emale           Color contact carrier         black           Coding		2 kV @ 60 s
Max. operating temperature (fixed)         90 °C           Operating temperature min. (dynamic)         40 °C           Operating temperature max. (dynamic)         90 °C           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         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +	Power frequency withstand voltage (wire -	
Operating temperature min. (dynamic)         40 °C           Operating temperature max. (dynamic)         90 °C           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         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Travel speed (C-track)         2 m's @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           FIN 1         +	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)         90 °C           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         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2         Earnily construction form           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           FIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         <	Max. operating temperature (fixed)	90 °C
Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           FIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	Operating temperature min. (dynamic)	-40 °C
chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PiN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	Operating temperature max. (dynamic)	90 °C
Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Tavel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           FIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	chemical resistance	Good, application-related testing
Bending radius (installation) x Outer diameter  Bending radius (fixed) x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C  No. of torsion cycles 0,5 Mio.  Torsion stress ± 180 °/m  Connection type 2  Family construction form free cable end  No. of poles 16  Family construction form M12  Gender female  Color contact carrier black  Coding A  No. of poles 5  PIN 1 +  PIN 2 NC S 2  PIN 3  -  PIN 4 NO S 1	Gasoline resistance	Good, application-related testing
Bending radius (fixed) x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C  No. of torsion cycles 0,5 Mio.  Torsion stress ± 180 °/m  Connection type 2  Family construction form free cable end  No. of poles 16  Family construction form M12  Gender female  Color contact carrier black  Coding A  No. of poles 5  PIN 1 +  PIN 2 NC S 2  PIN 3 -  PIN 4 NO S 1	Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed) x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C  No. of torsion cycles 0,5 Mio.  Torsion stress ± 180 °/m  Connection type 2  Family construction form free cable end  No. of poles 16  Family construction form M12  Gender female  Color contact carrier black  Coding A  No. of poles 5  PIN 1 +  PIN 2 NC S 2  PIN 3 -  PIN 4 NO S 1	Bending radius (installation)	x Outer diameter
No. of bending cycles (C-track)         5 Mio. @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1		
No. of bending cycles (C-track)         5 Mio. @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)         2 m/s @ 25 °C           No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1		
No. of torsion cycles         0,5 Mio.           Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1		
Torsion stress         ± 180 °/m           Connection type 2           Family construction form         free cable end           No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1		
Family construction form       free cable end         No. of poles       16         Family construction form       M12         Gender       female         Color contact carrier       black         Coding       A         No. of poles       5         PIN 1       +         PIN 2       NC S 2         PIN 3       -         PIN 4       NO S 1		· · · · · · · · · · · · · · · · · · ·
No. of poles         16           Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	Connection type 2	
Family construction form         M12           Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	Family construction form	free cable end
Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	No. of poles	16
Gender         female           Color contact carrier         black           Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	Family construction form	M12
Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1		female
Coding         A           No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	Color contact carrier	
No. of poles         5           PIN 1         +           PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1	Coding	
PIN 1       +         PIN 2       NC S 2         PIN 3       -         PIN 4       NO S 1		
PIN 2         NC S 2           PIN 3         -           PIN 4         NO S 1		
PIN 3 - NO S 1		
PIN 4 NO S 1		
		NO S 1

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