

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

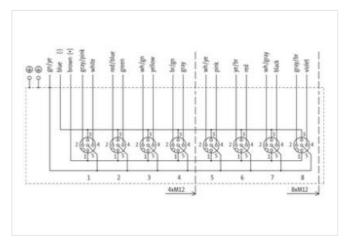
15.0m PUR 8x0,5+3x1,0, UL/CSA

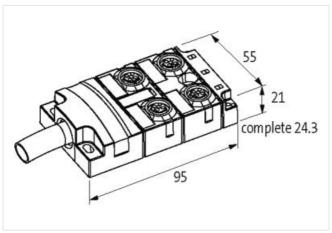
4-way, 5-pole Without LED for analog signals up to 48 V AC/DC Further cable lengths on request. Replaces identical product (Art.No. 27479)

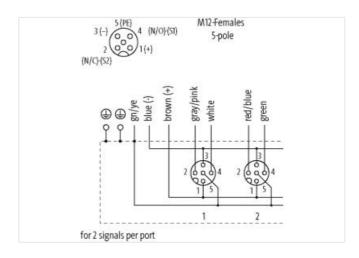
Link to Product

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	

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: 2024-05-17



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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	
	AA V
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
Mechanical data Mounting data	
	Oshar kara kada
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
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Outer-diameter (jacket)	9 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	TPE-E
Amount wires	8
	4.0
Outer diameter insulation	1,6 mm
Outer diameter tolerance core insulation	± 5 %
Outer diameter tolerance core insulation Shore hardness wire insulation	± 5 % 55 ± 3 Shore D
Outer diameter tolerance core insulation	± 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 Amount wire (Data) 5.5 more december of single wires (Data) Micro of single wires (Data) 1.1 mm² Conductor or wire (Data) 5.5 more december of single wires (Data) Wire conductor type (Data) 5.5 more december of single wires (Data) Wire conductor type (Data) 5.5 more december of single wires (Data) Wire conductor type (Data) 5.0 mm² Max. rated voltage (conductor - conductor) 5.0 V Max. rated voltage (conductor - conductor) 5.0 V Max. rated voltage (conductor - conductor) 5.0 V Current load capacity (wire wire) 5.0 Am 2 mm²	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 Max. operating temperature (staltc) 40 °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 r	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 ocaling wire (Pata) 30 km @ 20 °C Electrical resistance ocaling wire (Data) 20 km @ 20 °C AC withstand voltage (wire - wire) 24 kV @ 60 s Power frequency withstand voltage (wire - jacket) 24 kV @ 60 s Power frequency withstand voltage (wire - jacket) 40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature min. (dynamic) 90 °C Operating temperature min. (dynamic) 90 °C Flame resistance U. 1581 § 1990 UL 1581 § 1100 FT2 IEC 60332-2-2 Chamical resistance Good, application-related testing Oil resistance DIN EN 60811-40 Goo	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 AC 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 max. (dynamic) 90 °C Operating temperature max. (dynamic) 90 °C Operating temperature min. (dynamic) 90 °C Or esistance	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) 2 m's @ 25 °C No. of 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 + 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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