

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

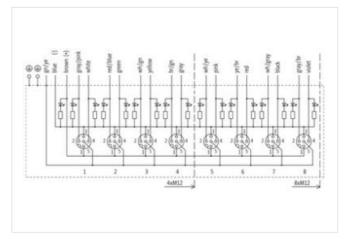
5.0m PUR 8x0,5+3x1,0, UL/CSA

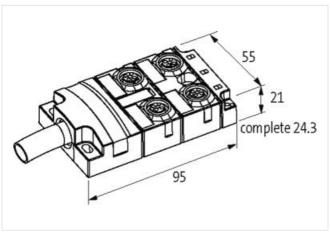
4-way, 5-pole 5.0 m with LED for digital PNP-signals 24 V DC Replaces identical product (Art.No. 27472) Further cable lengths on request.

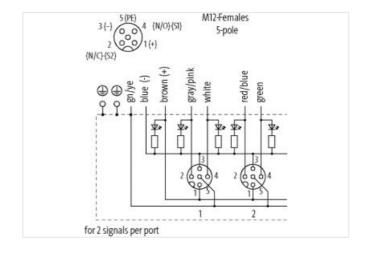
Link to Product

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: 2024-05-16



stay connected

ECLASS-10.1	27440108
ECLASS-11.1	27440108
ECLASS-12.0	27440108
ETIM-5.0	EC002585
customs tariff number	85444290
GTIN	4048879350839
Packaging unit	1
Electrical data Supply	
Operating voltage DC	24 V
Current operating per contact max.	4 A
	7//
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	
Mounting method	Schraubgewinde
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	90 ℃
Additional condition temperature range	depending on cable quality
Installation Cable	
Installation Cable	
Cable identification	448
•	448 gray
Cable identification	*
Cable identification Jacket Color	gray
Cable identification Jacket Color Type of Certificate	gray cURus
Cable identification Jacket Color Type of Certificate Amount stranding	gray cURus 1
Cable identification Jacket Color Type of Certificate Amount stranding Stranding	gray cURus 1 2 wires with Filler twisted
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min.	gray cURus 1 2 wires with Filler twisted 51 mm
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max.	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max. Amount stranding (type 2)	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max. Amount stranding (type 2)	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm 1 9 wires around Stranding combination counter-rotating twisted
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max. Amount stranding (type 2) Stranding factor min. (type 2)	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm 1 9 wires around Stranding combination counter-rotating twisted 100 mm
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Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max. Amount stranding (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Banding Filler wire arrangement Cable weigth	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm 1 9 wires around Stranding combination counter-rotating twisted 100 mm 100 mm Fleece yes white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) 146,3 g/m
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Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max. Amount stranding (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm 1 9 wires around Stranding combination counter-rotating twisted 100 mm 100 mm Fleece yes white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) 146,3 g/m PUR 94 ± 5 Shore A
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max. Amount stranding (type 2) Stranding (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm 1 9 wires around Stranding combination counter-rotating twisted 100 mm 100 mm Fleece yes white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) 146,3 g/m PUR 94 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max. Amount stranding (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Stranding factor max. (type 2) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm 1 9 wires around Stranding combination counter-rotating twisted 100 mm 100 mm Fleece yes white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) 146,3 g/m PUR 94 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free 9 mm
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Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max. Amount stranding (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Banding factor max. (type 2) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter tolerance core insulation Shore hardness wire insulation	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm 1 9 wires around Stranding combination counter-rotating twisted 100 mm 100 mm Fleece yes white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) 146,3 g/m PUR 94 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free 9 mm ± 5 % TPE-E 8 1,6 mm ± 5 % 55 ± 3 Shore D
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Stranding factor min. Stranding factor max. Amount stranding (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Stranding factor min. (type 2) Banding factor max. (type 2) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter tolerance core insulation	gray cURus 1 2 wires with Filler twisted 51 mm 51 mm 1 9 wires around Stranding combination counter-rotating twisted 100 mm 100 mm Fleece yes white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) 146,3 g/m PUR 94 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free 9 mm ± 5 % TPE-E 8 1,6 mm ± 5 %



Diameter of single wires 0,1 mm	
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Data) TPE-E Outer diameter wire insulation (Data) 2,1 mm Tolerance outer diameter wire insulation (Data) 55 s 3 Shore D Ingredient freeness wire insulation (Data) 184 free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount wires (Data) 3 Amount strands wire (Data) 128 Diameter of single wires (Data) 128 Diameter of single wires (Data) 1 mm² Material conductor wire (Data) 1 mm² Material conductor wire (Data) 1 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded sea 6 Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - conductor) 500 V Max. rated voltage (conductor - ground) 300 V Current load capacity min. Wire (Data) 15 A Electrical resistance line constant wire 39 Ω/km @ 20 °C Electrical resistance conting 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 Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature min. (dynamic) 40 °C Operating temperature max. (dynamic) 50 °C In Electrical resistance 50 °C Operating temperature max. (dyn	
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Material wire insulation (Data) TPE-E Outer diameter wire insulation (Data) 2,1 mm Tolerance outer diameter wire insulation (data) 5	
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Conductor crosssection wire (Data) 1 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (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 (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 - jacket) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 90 °C Max. 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 DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) x Outer diameter Flanding radius (fixed) x Outer diameter Travel speed (C-track) <	
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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 - 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) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
Electrical resistance line constant wire 39 Ω/km @ 20 °C Electrical resistance coating wire (Data) AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) 40 °C Max. operating temperature (fixed) Operating temperature min. (dynamic) -40 °C Operating temperature max. (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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 2 kV @ 60 s 40 °C 2 kV @ 60 s 2 kV @ 60 s 40 °C AC AC Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles	
Electrical resistance coating wire (Data) 20 \(\Omega / \text{km} \end{aligned} 20 \circ C \) AC withstand voltage (wire - wire) 2 kV \(\end{aligned} 60 \text{ s} \) Power frequency withstand voltage (wire - jacket) Alin. operating temperature (static) Min. operating temperature (fixed) 90 \(\circ C \) Max. operating temperature (fixed) 90 \(\circ C \) Operating temperature min. (dynamic) 40 \(\circ C \) Operating temperature max. (dynamic) 90 \(\circ C \) Flame resistance UL 1581 \(\struct 1581 \) 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 Travel speed (C-track) 5 Mio. \(\omega 25 \circ C \) No. of torsion cycles 0 2 kV \(\omega 60 \text{ s} \) 3 kV \(\omega 60 \text{ s} \)	
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Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance 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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles	
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Flame resistance UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance 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) Travel speed (C-track) No. of torsion cycles Oo C DIN EN 60811-400 Good, application-related testing DIN EN 60811-404 Good, application-related testing S Mio. @ 25 °C No. of torsion cycles O,5 Mio.	
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) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
Operating temperature min. (dynamic) 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 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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles -40 °C Constant Speed (C-track) -40 °C Good, application-related testing Good, application-related testing 10 x Outer diameter 5 Mio. @ 25 °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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
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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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
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 Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
Bending radius (installation) x Outer diameter Bending radius (fixed) x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
Bending radius (fixed) x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
Travel speed (C-track) 5 Mio. @ 25 °C No. of torsion cycles 0,5 Mio.	
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	
PIN 5 PE	