

## MVP12, 8XM12, 5POLE, PLUGGABLE CABLE

5.0m PUR/PVC 16x0,34+3x0,75

Further cable lengths on request.

8-way, 5-pole

Plastic housings with good resistance against chemicals and oils.

PUR/PVC

The resistance to aggressive media should be individually tested for your application. Further details on request.

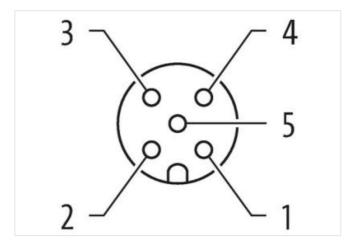
5.0 m

with LED for digital PNP-signals 24 V DC

## **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
ECLASS-10.1	27440108
ECLASS-11.1	27440108
ECLASS-12.0	27440108
ETIM-5.0	EC002585
customs tariff number	85369010
GTIN	4048879064453
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A



stay connected

Number of signals per port   2   2   2   2   2   2   2   2   2	Total current max.	8 A
Installation Connection           Tightening bacque         0.8 Nm           Mausting set         M12 x 1           Device protection (EN IEC 60569)         IPSS, IPS7           Additional condition protection orgene         inserted, screwed           Device protection (Modia           Flam re rollations         Marcinal protection orgene           Machinal data (Marcinal data)           Machinal data (Mounting data           Mechanical data (Mounting data)         150 mm           Worth         50.2 mm           Depth         17 mm           Environmental characteristics (Climate)         17 mm           Coperating temperature min.         20 °C           Operating temperature max.         80 °C           Additional condition temperature areas         depending on cable quality           Installation (Cable         2           Cabbic identification         398           Cabbic identification         398           Cabbic identification         20 °C           Cabbic identification         20 °C           Cabbic identification         20 °C           Cabbic identification         398           Cabbic identification         20 °C           Cabbic identification	Industrial communication	
Installation Connection           Tightening bacque         0.8 Nm           Mausting set         M12 x 1           Device protection (EN IEC 60569)         IPSS, IPS7           Additional condition protection orgene         inserted, screwed           Device protection (Modia           Flam re rollations         Marcinal protection orgene           Machinal data (Marcinal data)           Machinal data (Mounting data           Mechanical data (Mounting data)         150 mm           Worth         50.2 mm           Depth         17 mm           Environmental characteristics (Climate)         17 mm           Coperating temperature min.         20 °C           Operating temperature max.         80 °C           Additional condition temperature areas         depending on cable quality           Installation (Cable         2           Cabbic identification         398           Cabbic identification         398           Cabbic identification         20 °C           Cabbic identification         20 °C           Cabbic identification         20 °C           Cabbic identification         398           Cabbic identification         20 °C           Cabbic identification	Number of signals per port	2
Tightening torque         0.6 Nm           Mounting set         M12 x 1           Deurice protection (Enterical         Postice protection (Enterical           Degree of protection (EN IEC 60529)         IP65, IP67           Additional condition protection degree         Inserted, screwed           Device protection (Maila         Fame resistance         fame retardant           Mochanical data (Material data)         Machanical data (Material data)           Michanical data (Mounting data)         PST           Mechanical data (Mounting data)         PST           Michanical data (Mounting data)         PST           Mochanical data (Mounting data)         PST           Michanical data (Mounting data)         PST           Mounting (Mounting data)         PST           Mounting (Mounting data)         PST           Environmental characteristics (Climatic)         17 mm           Environmental characteristics (Climatic)         20 ° C           Operating temperature min.         20 ° C           Cable identification         398           Cable identification         398 <t< td=""><td></td><td></td></t<>		
Degree of protection   Electrical		·
Degree of protection (EN IEC 60529)         IP65, IP67           Additional condition protection degree         inserted, screwed           Device protection [Modia         Inserted screwed           Fine resistance         Alam retardant           Mechanical data [Material data]         PBT           Mechanical data [Mounting data]         PBT           Height         150 mm           Width         50.2 mm           Depth         17 mm           Environmental characteristics   Climatic         Common control properature may           Operating temperature max         80 °C           Additional condition temperature range         depending on cable quality           Installation   Cable         2           Cable Type         2           Jacket Color         gray           Type of Certificate         CURus           STOOW style jacket         Hybrid. Signal. Power           Amount stranding         1           Stranding (type 2)	Mounting set	M12 x 1
Additional condition protection degree   Inserted, screwed	Device protection   Electrical	
Device protection   Media         Ifame retardant           Mechanical data   Material data         Material housing         PBT           Mechanical data   Mounting data         PBT           Mechanical data   Mounting data         150 mm           Width         550.2 mm           Depth         17 mm           Environmental characteristics   Climatic         Concept (Controllar of the Controllar of the Co	Degree of protection (EN IEC 60529)	IP65, IP67
Rechancial data   Mederial data         PBT           Mechanical data   Mounting data         PBT           Mechanical data   Mounting data         PBT           Width         50.2 mm           Depth         17 mm           Environmental characteristics   Climatic         Commonity           Environmental characteristics   Climatic         Coperating temperature min.         -20 °C           Operating temperature max.         80 °C         Coperating temperature max.         80 °C           Additional condition temperature range         depending on cable quality           instillation   Cable         2           Cable identification         398         Second Copin (Copin (	Additional condition protection degree	inserted, screwed
Mechanical data   Material data         PBT           Mechanical data   Mounting data         PBT           Height         150 mm           Victor         50.2 mm           Depth         17 mm           Environmental characteristics   Climate         Coperating temperature min.         20 °C           Operating temperature max.         90 °C           Additional condition temperature max.         90 °C           Additional Condition temperature max.         90 °C           Cable identification         398           Cable Type         2           Cable Of Type         2           Cable Vigor         2           Type of Certificate         CURsus           STOOW style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding         1           Stranding (type 2)         12 wires around Stranding combination twisted           wire arrangement         while, gray pink, prower, green, yellow, green, ved bus, (viole, brown-gray, black, gray-while, ord, brown-green, yellow, green, yell	Device protection   Media	
Material housing         PBT           Rechanical data   Mounting data           Height         150 mm           Width         50.2 mm           Depth         17 mm           Environmental characteristics   Climate           Operating temperature min.         -20 °C           Operating temperature many         depending on cable quality           Installation   Cable         Cable identification           Cable identification         388           Cable Type         2           Jacket Color         gray           Type of Certificate         CURus           STOOW style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1           Stranding (type 2)         12 were around Stranding combination twisted           Stranding (type 2)         12 were around Stranding combination twisted           Wire arrangement         brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red-brown-yellow, promine, yellow, promine, yel	Flame resistance	flame retardant
Mechanical data   Mounting data         150 mm           Width         50.2 mm           Depth         17 mm           Environmental characteristics   Climatic         V           Operating temperature min.         -20 °C           Operating temperature max.         80 °C           Additional condition temperature range depending on cable quality         Installation   Cable           Cable identification         388           Cable Type         2           Jacket Color         gray           Type of Certificate         cURus           STOOW style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding (type 2)         1           Stranding (type 2)         1           Stranding (type 2)         12 wires around Stranding combination twisted           wire arrangement         white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, jink, yellow-white, gray, blue, brown, green-yellow)           Cable weight         155 gm           Material jacket         PUR           Shore hardness jacket         PUR           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Colier (inner jacket)         pVC	Mechanical data   Material data	
Mechanical data   Mounting data	Material housing	PRT
Height         150 mm           Width         50.2 mm           Depth         17 mm           Environmental characteristics   Climatic         Formatting temperature min.         20 °C           Operating temperature max.         80 °C           Additional condition temperature range         depending on cable quality           Installation   Cable         Cable identification         398           Cable identification         398         Cable identification         Cable identification         398           Cable I Type         2		
Width         50,2 mm           Depth         17 mm           Environmental characteristics   Climatic         Coperating temperature min.         20 °C           Operating temperature max.         80 °C           Additional condition temperature range         depending on cable quality           Installation   Cable         Cable identification         398           Cable of Type         2         2           Jacket Color         gray         1           Type of Certificate         cURus         4           STOOM style jacket         Hybrid, Signal, Power           Amount stranding         1         1           Stranding (type 2)         1         1           Stranding (type 2)         12 wires around Stranding combination twisted         wire arrangement         white, gray-pink, brown-green, yellow, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, preen, yellow, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, preen, yellow, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-green, yellow, green, yellow, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-green, yellow, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-green, yellow, green, red-blue, (violet, brown-gray, black, gray-white, gray, blue, brown, green, yellow, green, red-blue, (violet, brown-gray, black, gray-white, gray, blue, brown, green, yellow, green, yellow, green, yellow, green, yellow, green, yellow, green, yell		
Depth         17 mm           Environmental characteristics   Climatic           Operating temperature min.         -20 °C           Operating temperature max.         80 °C           Additional condition temperature range         depending on cable quality           Installation   Cable           Cable identification         398           Cable identification         29           Jacket Color         gray           Type of Certificate         CURus           STOOW style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1           Stranding (type 2)         1           Stranding (type 2)         12 wires around Stranding combination twisted           wire arrangement         white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-green, yellow, green-white, gray, blue, brown, green-yellow)           Cable weight         165 g/m           Material jacket         PUR           Snore hardness jacket         87 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer diameter (jacket)         g 7 m		
Privironmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 80 °C  Additional condition temperature range depending on cable quality  Installation   Cable  Cable identification		
Operating temperature min.         -20 °C           Operating temperature max.         80 °C           Additional condition temperature range         depending on cable quality           Installation   Cable	Depth	17 mm
Operating temperature max. 80 °C Additional condition temperature range depending on cable quality  Installation   Cable  Cable Identification 398 Cable Type 2 Jacket Color gray Type of Certificate cURus  STOOW style jacket Hybrid, Signal, Power  Amount stranding 1 Stranding 7 wires around Core filler twisted  Amount stranding (type 2) 1 Stranding (type 2) 1 Stranding (type 2) 12 wires around Stranding combination twisted  wire arrangement white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)  Cable weigh 165 g/m Material jacket PUR  Shore hardness jacket 87 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 10 mm  Tolerance outer diameter (sheath) ± 5 %  Material inner jacket PVC  Color (inner jacket) gray  Material viner insulation PVC  Amount swires 16  Outer diameter insulation 1,3 mm  Outer diameter insulation 9 pvC  Material wire insulation 43 ± 5 Shore D  Material properties wire insulation 1 ead-free, cadmium-free, CFC-free, silicone-free  Outer diameter insulation 9 good machinability  Ingredient freeness wire insulation 1 lead-free, cadmium-free, CFC-free, silicone-free  Amount swires 0 16  Outer diameter insulation 9 good machinability  Ingredient freeness wire insulation 1 lead-free, cadmium-free, CFC-free, silicone-free  Material wire insulation 1 lead-free, cadmium-free, CFC-free, silicone-free  Material wire insulation 9 good machinability  Ingredient freeness wire insulation 1 lead-free, cadmium-free, CFC-free, silicone-free  Material wire insulation 1 lead-free, cadmium-free, CFC-free, silicone-free  Material wire insulation 1 lead-free, cadmium-free, CFC-free, silicone-free  Material wire insulation 1 lead-free, cadmium-free, CFC-free, silicone-free	Environmental characteristics   Climatic	
Additional condition temperature range depending on cable quality  Installation   Cable  Cable identification 398  Cable Type 2  Jacket Color gray  Type of Certificate cURus  STOOW style jacket Hybrid, Signal, Power  Amount stranding 1  Stranding 7 vires around Core filler twisted  Amount stranding (type 2) 1  Stranding (type 2) 12 wires around Stranding combination twisted  wire arrangement white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)  Treedom from ingredients (jacket) 10 mm  Tolerance outer diameter (sleaket) 10 mm  Tolerance outer diameter (sheath) ± 5 %  Material inner jacket PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter tolerance core insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Material wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Material wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Material wire insulation lead-free, cadmium-free, CFC-free, silicone-free	Operating temperature min.	-20 °C
Installation   Cable           Cable identification         398           Cable Type         2           Jacket Color         gray           Type of Certificate         cURus           STOOW style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1           Stranding (type 2)         12 wires around Stranding combination twisted           wire arrangement         white, grav-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-green, yellow, green-white, gray, blue, brown, green-yellow)           Cable weigth         165 g/m           Material jacket         PUR           Shore hardness jacket         87 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         10 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         16           Outer diameter (sheath)         ± 5 %           Shore	Operating temperature max.	80 °C
Cable Type         2           Jacket Color         gray           Type of Certificate         cURus           STOOW Style Jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1           Stranding (type 2)         1 2 wires around Stranding combination twisted           wire arrangement         white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)           Cable weight         165 g/m           Material jacket         PUR           Shore hardness jacket         87 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         10 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         16           Outer diameter tolerance core insulation         ± 5 %           Shore bardness wire insulation         43 ± 5 Shore D           Material properties wire insulation	Additional condition temperature range	depending on cable quality
Cable Type         2           Jacket Color         gray           Type of Certificate         cURus           STOOW style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1           Stranding (type 2)         12 wires around Stranding combination twisted           wire arrangement         white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)           Cable weigth         165 g/m           Material jacket         PUR           Shore hardness jacket         87 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         10 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         16           Outer diameter insulation         1,3 mm           Outer diameter tolerance core insulation         43 ± 5 Shore D           Material properties wire insulation	Installation   Cable	
Jacket Color gray Type of Certificate cURus STOOW style jacket Hybrid, Signal, Power Amount stranding 1 Stranding 7 wires around Core filler twisted Amount stranding (type 2) 1 Stranding (type 2) 12 wires around Stranding combination twisted wire arrangement white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow) Cable weigth 165 g/m Material jacket PUR Shore hardness jacket 87 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 10 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket PVC Color (inner jacket) gray Material wire insulation PVC Amount wires 16 Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 43 ± 5 Shore D Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free Outer diameter tolerance core insulation 43 ± 5 Shore D Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free Outer diameter tolerance core insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm	Cable identification	398
Type of Certificate cURus  STOOW style jacket Hybrid, Signal, Power Amount stranding 1 Stranding 7 wires around Core filler twisted Amount stranding (type 2) 1 Stranding (type 2) 12 wires around Stranding combination twisted white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)  Cable weigh 165 g/m Material jacket PUR Shore hardness jacket 87 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 10 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket PVC Color (inner jacket) gray Material wire insulation PVC Amount wires 16 Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19 Diameter of single wires 0,15 mm	Cable Type	2
STOOW style jacket Hybrid, Signal, Power  Amount stranding 1  Stranding 7 wires around Core filler twisted  Amount stranding (type 2) 1  Stranding (type 2) 12 wires around Stranding combination twisted  wire arrangement white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)  Cable weigth 165 g/m  Material jacket PUR  Shore hardness jacket 87 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 10 mm  Tolerance outer diameter (sheath) ± 5 %.  Material inner jacket PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ± 5 %.  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	Jacket Color	gray
Amount stranding 1 Stranding 7 wires around Core filler twisted Amount stranding (type 2) 1 Stranding (type 2) 12 wires around Stranding combination twisted wire arrangement white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)  Cable weigth 165 g/m Material jacket PUR Shore hardness jacket 87 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 10 mm  Tolerance outer diameter (sheath) ± 5 % Material inner jacket PVC Color (inner jacket) gray Material wire insulation PVC Amount wires 16 Outer diameter insulation 1,3 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 43 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm	Type of Certificate	cURus
Stranding 7 wires around Core filler twisted  Amount stranding (type 2) 1  Stranding (type 2) 12 wires around Stranding combination twisted  white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)  Cable weigth 165 g/m  Material jacket PUR  Shore hardness jacket 87 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 10 mm  Tolerance outer diameter (sheath) ± 5 %  Material inner jacket PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	STOOW style jacket	Hybrid, Signal, Power
Amount stranding (type 2)  Stranding (type 2)  12 wires around Stranding combination twisted  white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)  Cable weigth  165 g/m  Material jacket  PUR  Shore hardness jacket  Freedom from ingredients (jacket)  lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket)  10 mm  Tolerance outer diameter (sheath)  ± 5 %  Material inner jacket  PVC  Color (inner jacket)  gray  Material wire insulation  PVC  Amount wires  16  Outer diameter tolerance core insulation  1,3 mm  Outer diameter tolerance core insulation  43 ± 5 Shore D  Material properties wire insulation  lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire)  19  Diameter of single wires  0,15 mm	Amount stranding	1
Stranding (type 2)     12 wires around Stranding combination twisted       wire arrangement     white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)       Cable weigth     165 g/m       Material jacket     PUR       Shore hardness jacket     87 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, silicone-free       Outer-diameter (jacket)     10 mm       Tolerance outer diameter (sheath)     ± 5 %       Material inner jacket     PVC       Color (inner jacket)     gray       Material wire insulation     PVC       Amount wires     16       Outer diameter insulation     1,3 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     43 ± 5 Shore D       Material properties wire insulation     good machinability       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     19       Diameter of single wires     0,15 mm	Stranding	7 wires around Core filler twisted
wire arrangement white, gray-pink, brown-green, yellow, green-white, green, red-blue, (violet, brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)  Cable weigth 165 g/m  Material jacket PUR  Shore hardness jacket 87 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 10 mm  Tolerance outer diameter (sheath) ± 5 %  Material inner jacket PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	Amount stranding (type 2)	1
brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow)  Cable weigth 165 g/m  Material jacket PUR  Shore hardness jacket 87 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 10 mm  Tolerance outer diameter (sheath) ± 5 %  Material inner jacket PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	Stranding (type 2)	12 wires around Stranding combination twisted
Material jacket PUR  Shore hardness jacket 87 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 10 mm  Tolerance outer diameter (sheath) ± 5 %  Material inner jacket PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	wire arrangement	
Shore hardness jacket 87 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 10 mm  Tolerance outer diameter (sheath) ± 5 %  Material inner jacket PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	Cable weigth	165 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 10 mm  Tolerance outer diameter (sheath) ± 5 %  Material inner jacket PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	Material jacket	PUR
Outer-diameter (jacket)     10 mm       Tolerance outer diameter (sheath)     ± 5 %       Material inner jacket     PVC       Color (inner jacket)     gray       Material wire insulation     PVC       Amount wires     16       Outer diameter insulation     1,3 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     43 ± 5 Shore D       Material properties wire insulation     good machinability       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, silicone-free       Amount strands (wire)     19       Diameter of single wires     0,15 mm	Shore hardness jacket	87 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 %  Material inner jacket PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Material inner jacket       PVC         Color (inner jacket)       gray         Material wire insulation       PVC         Amount wires       16         Outer diameter insulation       1,3 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       43 ± 5 Shore D         Material properties wire insulation       good machinability         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Amount strands (wire)       19         Diameter of single wires       0,15 mm	Outer-diameter (jacket)	10 mm
Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	Tolerance outer diameter (sheath)	± 5 %
Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ±5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	Material inner jacket	PVC
Amount wires 16 Outer diameter insulation 1,3 mm Outer diameter tolerance core insulation ±5 % Shore hardness wire insulation 43 ± 5 Shore D Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm		
Outer diameter insulation 1,3 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm	Material wire insulation	
Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 43 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm		
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Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm		
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm		
Amount strands (wire) 19 Diameter of single wires 0,15 mm		
Diameter of single wires 0,15 mm		
Conductor crosssection (wire) 0,34 mm <sup>2</sup>		•
	Conductor crosssection (wire)	0,34 mm <sup>2</sup>



stay connected

Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Material wire insulation (Power)	PVC
Outer diameter wire insulation (Power)	1.8 mm
Tolerance outer diameter wire insulation	±5 %
(Power)	
Shore hardness wire insulation (Power)	43±5 Shore D
Material properties wire insulation (Power)	good machinability
Ingredient freeness wire insulation (Power)	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands wire (Power)	42
Diameter of single wires (Power)	0,15 mm
Wire conductor cross section (Power)	0,75 mm <sup>2</sup>
Material conductor wire (Power)	Stranded copper wire, bare
Conductor type wire (Power)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3
Max. rated voltage (conductor - conductor)	300 V
Max. rated voltage (conductor - ground)	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
Electrical resistance coating wire (Power)	26 Ω/km @20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Loop resistance	7,8 A
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Connection type 2	
Family construction form	free cable end
Color contact carrier	gray
No. of poles	19
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 PE
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