

## 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.

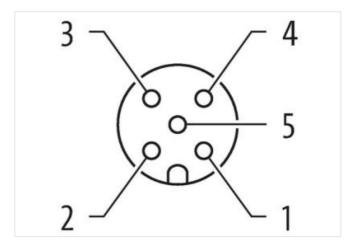
5.0 m

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     Installation   Commented   Tightening torque   0.8 Nm     Nountries part   Nountries par	Total current max.	8 A	
Installation   Connection	Industrial communication		
Installation Connection         Coperating torque         0.6 Nm           Mounting set         M12 x 1           Degree of protection (EN IEC 60529)         IPES, IPES           Additional condition protection degree         inserted, sorewed           Device protection (IM IEC 60529)         IPES, IPES           Additional condition protection degree         inserted, sorewed           Device protection (IM data)         Image: Ima		2	
Tightening torque         0.8 Nm           Mounting set         M12 x 1           Degrée of protection (Enterical         Degrée of protection (Enterical           Degrée of protection (Enterical         PSS. (PPS.)           Auditional condition protection degrée         Insertée, serveed           Devisee protection (Media         Flame resistance         flame retardant           Machanical data (Material data         Machanical data (Material data)         PST           Machanical data (Mounting data)         PST           Width         50,2 mm         PST           Environmental characterisics   Climate         17 mm           Environmental characterisics   Climate         20 °C           Operating temperature min.         20 °C           Capealing temperature max.         20 °C           Additional condition temperature range         depending on cable quality           Installation (Cable)         398           Cable (dentificate)         398           Cable (dentificate)         399           Cable (dentificate)         399           Type of Certificate         CURUS           STOOM skyle jacked         Hybrid, Signal, Power           Amount stranding (type 2)         1           Stranding (type 2)         1 <th< td=""><td></td><td>-</td></th<>		-	
Mounting sert MI2 x 1  Device protection (EN IEC 6053) IPS6, IPS7 Additional condition protection degree inserted, screwed  Device protection (Modia inserted) inserted, screwed  Device protection (Modia inserted) inserted, screwed  Mechanical data (Material data inserted) inserted, screwed  Mechanical data (Material data inserted) inserted, screwed  Mechanical data (Material data inserted) inserted insert			
Degree of protection   Electrical		·	
Degree of protection (EN IEC 60529)         IP65, IP67           Additional condition protection degree         inserted, screwed           Device protection (Media         Flame resistance         flame resistance           Nechanical data (Naterial data)         PBT           Mechanical data (Munting data)         PBT           Height         150 mm           Width         50.2 mm           Depth         17 mm           Environmental characteristics (Climatic         Climatic           Operating temperature min.         20 °C           Additional condition temperature grange         depending on cable quality           Institution (Cable)         2           Cable in Type         2           Jacket Color         gray           Type of Certificate         CIFUs           STOOW style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding         7 were around Core filter twisted           Amount stranding (type 2)         1	Mounting set	M12 x 1	
Additional condition protection Ideata         Inserted is, screwed           Device protection I Ideata         If fame restandint           Mechanical data IMaterial data         Macrean Housing         PBT           Mechanical data   Mounting data         Holight         150 mm           Holight         50.2 mm         Part Immediate Immediat	Device protection   Electrical		
Device protection   Media         flame retardant           Mechanical data   Material data           Material housing         PBT           Mechanical data   Mounting data         150 mm           Meight         150 mm           Dopph         17 mm           Environmental characteristics   Climatic         Climatic           Operating temperature min.         20 °C           Operating temperature max.         80 °C           Additional condition temperature range         depending on cable quality           Institution   Cable         Temperature range           Cable (Institution)   Cable         Additional Condition temperature range           Institution   Cable         Temperature range         depending on cable quality           Institution   Cable   Cable (Institution   Cable   Cable (Institution   Cable   Cable (Institution   Cable   Cable (Institution   Cable	Degree of protection (EN IEC 60529)	IP65, IP67	
Rechancial data   Melerial data         Material housing         PT           Macterial housing         PT           Mechanical data   Mounting data         PW           Width         50.2 mm           Open         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         2           Cable identification         388           Cable Type         2           Cable (Color         gray           Type of Cartificate         URbus           STOOM style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding (type 2)         1           Stranding (type 2)         1           Vires around Stranding combination twisted           wire arrangement         Amice, gray-pink, prown-green, yellow, green, well-blue, (violet, brown-gray, black, gray-white, red, brown-griev, pillow, price, yellow, price,	Additional condition protection degree	inserted, screwed	
Machanical data   Material data         PBT           Machanical data   Mounting data         150 mm           Width         50.2 mm           Depth         17 mm           Environmental characteristics   Climatic         Coperating temperature min.         20 °C           Operating temperature max.         80 °C           Additional condition temperature max.         80 °C           Additional condition temperature max.         80 °C           Cable identification         398           Cable Type         2           Jacket Color         gray           Type of Certificate         URBus           STOOW style jacket         Hybrid, Signal, Power           Amount stranding (type 2)         12 wires around Core filler twisted           Amount stranding (type 2)         12 wires around Stranding combination twisted           wire arrangement         white, gray-pink, brown-green, yellow, green, wellow, (violet, brown-gray, black, gray-white, ord, brown-green, yellow, green, red-blue, (violet, brown-gray, black, gray-white, ord, brown-green, yellow, green, yellow)           No. of bending cycles (C-track)         2 Mio. @ 25 °C           Sable weight         16 5 grm           Material jacket         PUR           Shore adminess jacket         PUR           Shore durantees (behealt) <th< td=""><td>Device protection   Media</td><td></td></th<>	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 may         depending on cable quality           Institution   Cable         388           Cable identification         398           Cable identification         398           Cable (application)         2           Jacket Color         gray           Type of Certificate         cURus           STOOW style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding (type 2)         1           Wire arrangement         brown-green, yellow, green-white, green, yellow, green-yellow)           No. of bending cycles (C-track)         2 Mice, Graphic, brown-green, yellow, green-white, graphyllow, brown-green-yellow)           Material inering jacket         PUR<	Flame resistance	flame retardant	
Mechanical data   Mounting data	Mechanical data   Material data		
Mechanical data   Mounting data	Material housing	PRT	
Height         150 mm           Width         50.2 mm           Depth         17 mm           Environmental characteristics   Climatic           Operating temperature min.         -20 °C           Operating temperature max.         80 °C           Additional condition temperature range         despending on cable quality           Installation   Cable         Cable identification           Cable identification         398           Cable   Type         2           Jacket Color         gray           Type of Certificate         CUPIus           STOOW style jacket         Hybrid, Signal, Power           Amount stranding         1           Stranding         7 wires around Core filler twisted           Amount stranding (type 2)         1           Stranding opties (C-track)         2 (bio. @ 25 °C           Cable weight         165 g/m           Material jacket         PUR           Material jacket         PUR           Cable weight (former jacket)         10 mm           Tolerance outer			
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         Installation   Cable           Cable identification         398           Cable (John Fill Propers)         2           Jacket Color         gray           Type of Certificate         cURus           STOOM 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, 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, red, brown-green, yellow, green, red-blue, (violet, brown-gray, black, gray-white, gray, blue, brown, green-yellow)           No. of bending cycles (C-track)         2 Mine, @ 25 °C           Cable weight         165 glm           Material goket         PUR			
Depth 17 mm  Environmental characteristics   Climatic  Operating temperature min20 °C  Operating temperature min80 °C  Additional condition temperature range depending on cable quality  Installation   Cable  Sable Type 2  Jacket Color gray  Type of Cerifficate Curry  Type of Cerificate Curry  Type of Cerifficate Curry  Type of Cerifficat			
Privinomental characteristics   Climatic  Operating temperature min20 °C  Operating temperature max. 80 °C  Operating temperature max. 80 °C  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) 12 wires around Core filler twisted  Amount stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Stranding (type 2) 12 wires around Stranding combination twisted  Amount strands (wire) 19 twisted and twisted t		· · · · · · · · · · · · · · · · · · ·	
Operating temperature min. Operating temperature max. 80 °C Operating temperature max. 80 °C Additional condition temperature range depending on cable quality Installation   Cable Cable identification 398 Cable Type 2 Jacket Color Type of Certificate CIPUS STOOM style jacket Hybrid, Signal, Power Amount stranding 1 Stranding 7 wires around Core filler twisted Amount stranding 11 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) No. of bending cycles (C-track) 2 Mio.@ 25 °C Cable weigth 165 g/m Material jacket PUR Shore hardness jacket PUR Alterial miner jacket PVC Color (inner jacket) 9ray Material inner jacket PVC Color (inner jacket) 9ray Material wire insulation PVC Amount wires 16 Outer diameter insulation 1,3 mm Outer diameter insulation 43 ± 5 Shore D Material properties wire insulation 43 ± 5 Shore D Material properties wire insulation Harding properties wire insulation Jead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19	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) 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)  No. of bending cycles (C-track) 2 Milo. @ 25 °C Cable weigth 165 g/m  Material jacket PUR  Shore hardness jacket PUR  Shore hardness jacket PUR  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 wire insulation 43 ± 5 Shore D  Material properties wire insulation good materinability ingredient feeness wire insulation good materinability ingredient feeness wire insulation good materinability ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19	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)  No. of bending cycles (C-track) 2 Mio. @ 25 °C  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 PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter insulation 43 ± 5 Shore D  Material properties wire insulation 1,3 mm  Outer diameter insulation 43 ± 5 Shore D  Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19	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, 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)           No. of bending cycles (C-track)         2 Mio. @ 25 °C           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)         9 ray           Material wire insulation         pVC           Color (inner jacket)         gray           Material wire insulation         1.3 mm           Outer diameter tolerance core insulation         ± 5 %           Material properties wire insulation	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) 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) No. of bending cycles (C-track) 2 Mio. @ 25 °C Cable weigh 166 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 wire insulation PVC Color (inner jacket) gray Material wire insulation PVC Amount wires 16 Outer diameter insulation 1,3 mm Outer diameter 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	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)         No. of bending cycles (C-track)       2 Mio. @ 25 °C         Cable weigth       166 g/m         Material jacket       PUR         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	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) No. of bending cycles (C-track) 2 Mio. @ 25 °C 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 good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19	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)  No. of bending cycles (C-track) 2 Mio. @ 25 °C  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 wire insulation PVC  Color (inner jacket) gray  Material wire insulation PVC  Amount wires 16  Outer diameter insulation 1,3 mm  Outer diameter 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	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)  No. of bending cycles (C-track) 2 Mio. @ 25 °C  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 good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19	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)  No. of bending cycles (C-track) 2 Mio. @ 25 °C 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 insulation 43 ± 5 Shore D Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Material properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free	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)  No. of bending cycles (C-track) 2 Mio. @ 25 °C  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 lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19	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)  No. of bending cycles (C-track)  2 Mio. @2 S°C  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  1,3 mm  Outer diameter tolerance core insulation  43 ± 5 Shore D  Material properties wire insulation  Joed and a single free, cadmium-free, CFC-free, silicone-free  Amount strands (wire)  19	Amount stranding	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)  No. of bending cycles (C-track)  2 Mio. @ 25 °C  Cable weigth  165 g/m  Material jacket  PUR  Shore hardness jacket  87 ± 5 Shore A  Freedom from ingredients (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  Material properties wire insulation	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)  No. of bending cycles (C-track) 2 Mio. @ 25 °C  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	Amount stranding (type 2)	1	
No. of bending cycles (C-track)  2 Mio. @ 25 °C  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 rolerance core insulation  1,3 mm  Outer diameter tolerance core insulation  Atterial properties wire insulation  Material properties wire insulation	Stranding (type 2)	12 wires around Stranding combination twisted	
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	wire arrangement		
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	No. of bending cycles (C-track)	2 Mio. @ 25 °C	
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	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	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	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	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	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	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	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			
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			
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			
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			
Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19			
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19		43 ± 5 Shore D	
Amount strands (wire) 19			
· · ·		lead-free, cadmium-free, CFC-free, silicone-free	
Diameter of single wires 0,15 mm	. ,		
	Diameter of single wires	0,15 mm	



stay connected

Conductor crosssection (wire)	0.34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5 PVC
Material wire insulation (Power)	· · ·
Outer diameter wire insulation (Power)  Tolerance outer diameter wire insulation	1,8 mm
(Power)	±5 %
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 wires (Power)	3
Amount strands wire (Power)	42
Diameter of single wires (Power)	0,15 mm
Wire conductor cross section (Power)	0,75 mm²
Material conductor wire (Power)	Stranded copper wire, bare
Conductor type wire (Power)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C
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
Loop resistance	7,8 A
Max. rated voltage power (conductor - ground)	300 V
Max. rated voltage power (conductor - conductor)	300 V
Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
AC withstand voltage power (wire - wire)	2 kV @ 60 s
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
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
	5
No. of poles	
PIN 1	+ NO 0 0
PIN 2	NC S 2
PIN 3	-
PIN 4	NO S 1
PIN 5	PE