

EXACT12, 4XM12, 5-POLE, MOULDED CABLE

10.0m PUR 8x0,5+3x1,0

4-way, 5-pole for NPN signals 24 V DC Further cable lengths on request.

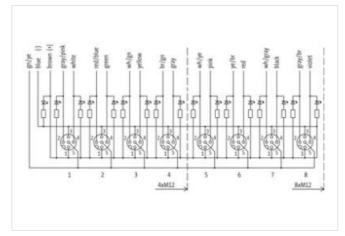
Plastic housings with good resistance against chemicals and oils.

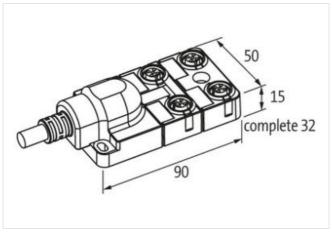
The resistance to aggressive media should be individually tested for your application. Further details on request.

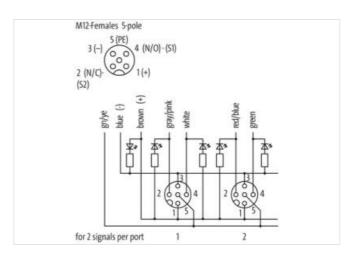
Link to Product

Illustration









Product may differ from Image









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



stay connected

Custon's sariff number 85644290 CFIN 4048073055710 Packaging unit 1 Electrical datal Supply Corrent operating per contact max. 4 A Current operating per contact max. 4 A Installation Connection M12 x I Device protection EN IEC 95590 PES, IPS7 Device protection EN IEC 95590 PES, IPS7 Device protection Media Flame resistance Flame resistance flame retardant Machanical data Muserial data Machanical data Muserial Activation Machanical data Macrial data	ETIM-5.0	EC002585
CFIN 4048879055710 Packaging unit 1 Cecurity ovalitage DC 24 V Current operating per contact max. 4 A Installation [Connection] Immediate in protection [Enterical Degree of protection [ENTEC 00559] PBC5, PP7 Device protection [I Net ISC 00559] PBC5, PP7 Device protection [I Net ISC 00559] PBc5, PP7 Device protection [I Net ISC 00559] PBc5 Mechanical data [I Minerial data Machanical data [I Minerial data Mechanical data [I Minerial data Machanical data [I Minerial data Multiplication [I Net ISC 00559] Place ISC Multiplication [I Net ISC 00559] Place ISC 00559 Purishing properature in max. 20 °C Additional condition temperature range 40 °C Additional condition temperature range 70 °C Additional condition temperature range 40 °C Collab identification [Cable Collab Issuer		
Fackaging unit 1 Biochical data Supply Courrent polago DC 24 Y Courrent polago DC 24 Y Courrent polago per contact max. 4 A Installation (Connection Degree of protection (EN EC 060529) MS 195 P67 Degree of protection (ISN EC 060529) PES, IP67 Mechanical data Material data Mechanical data Material data Material Material Material data Material Material Material Material Material Material Materi		
Electrical data Supply 24 4 V Operating vallage DG 24 4 V Current operating per contact max. 4 A Installation Connection Will x 1 Device protection Electrical Device protection Electrical Device protection Media The section of the person of protection Media Michanical data Multimate and the metal data Multimate and the meta		
Operating voltage DC 24 V Current operating per contect max. 4 A Installation Connection M12 x 1 Device protection Electrical Possible protection Electrical Degree of protection Indexial Proper protection Indexial Pame resistance flower retardant Mechanical data Material data Management of protection Made Material data Mater		
Current operating per contact max. 4 A Instalation (Connection M12 x 1 Degree of protection (EN IEC 00589) MP56, IP67 Device protection (EN IEC 00589) [P65, IP67 Device protection (EN IEC 00589) [P85, IP67 Device protection (EN IEC 00589) [Image: Image: Ima		
Installation Connection Mounting set M12 x 1 Device protection Electrical P05, IP67 Device protection Electrical P05, IP67 Device protection Media Form resistance fame retardant Mechanical dats Mustrial data Wester Published Wester Published Mechanical dats Mustrial data Schraubgewinde Wester Published Environmental characteristics Climatic Common protection Media Schraubgewinde Environmental characteristics Climatic Poperating temperature max. 20° C Operating temperature max. 70° C Additional condition temperature range depending on cable quality Installation Cable 448 Additional condition temperature range depending on cable quality Installation Cable		
Device protection Electrical Device protection Electrical Degree of protection Electrical Degree of protection Media Plant resistance flame retardant Mechanical data Material data Plastic Mechanical data Muturilar data Plastic Mechanical data Muturilar data Plastic Mechanical data Muturilar	Current operating per contact max.	4 A
Degree protection (EN IEC 60529) IP65, IP67 Device protection (EN IEC 60529) IP65, IP67 Device protection (EN IEC 60529) IP68, IP67 Business famour restandant Mechanical data (Material data) Famour restandant Mechanical data (Material data) Plastic Mechanical data (Mounting data) Winderson (Mounting data) Mechanical data (Mounting data) Subraubgewinde Environmental characteristics (Climatic Coparating ompendure man. 20 °C Operating temperature man. 70 °C Additional condition temperature range depending on cable quality Installation (Cable Color 448 Jacket Color gray Type of Certificate URUs Amount stranding 1 Stranding factor min. 51 mm Stranding factor min. 51 mm Stranding factor min. 10 mm Stranding factor min. (type 2) 9 views around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor min. (type 2) 9 views around Stranding combination counter-rotating twisted <t< td=""><td>Installation Connection</td><td></td></t<>	Installation Connection	
Device of protection (EN IEC 80329) IP65, IP67 Device protection Media Flame resistance flame retardant Macenal flousing Plastic Mechanical data Mounting data Mechanical data Mounting data Mechanical data Mounting method Schraubgewinde Environmental characteristics Climatic Coperating temperature min. -20 °C Operating temperature max. 70 °C Additional condition temperature max. 448 Additional condition condition temperature max. 448 Additional condition temperature max. 448 Aboved Color gray Grading flow flow flow flow flow flow flow flow	Mounting set	M12 x 1
Powice protection Media flame resistance flame retardant Mechanical data Material data Mechanical data Mounting data Mechanical data Mounting data Plastic Mechanical data Mounting data Schraubgewinde Environmental characteristics Climatic Comparating temperature min. 20 °C Operating temperature max. 70 °C Additional condition temperature range depending on cable quality Installation Cable Use of Color gray Type of Certificate USB Annount stranding 1 1 Stranding factor min. 51 mm Annount stranding (type 2) 1 Stranding factor mix. 51 mm Annount stranding (type 2) 1 Stranding factor mix. (type 2) 10 mm Stranding factor mix. (type 2) 10 mm Stranding factor mix. (type 2) 10 mm Stranding factor mix. (type 2) 100 mm Barding Piece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) <t< td=""><td>Device protection Electrical</td><td></td></t<>	Device protection Electrical	
Powice protection Media flame resistance flame retardant Mechanical data Material data Mechanical data Mounting data Mechanical data Mounting data Plastic Mechanical data Mounting data Schraubgewinde Environmental characteristics Climatic Comparating temperature min. 20 °C Operating temperature max. 70 °C Additional condition temperature range depending on cable quality Installation Cable Use of Color gray Type of Certificate USB Annount stranding 1 1 Stranding factor min. 51 mm Annount stranding (type 2) 1 Stranding factor mix. 51 mm Annount stranding (type 2) 1 Stranding factor mix. (type 2) 10 mm Stranding factor mix. (type 2) 10 mm Stranding factor mix. (type 2) 10 mm Stranding factor mix. (type 2) 100 mm Barding Piece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) <t< td=""><td>Degree of protection (EN IEC 60529)</td><td>IP65. IP67</td></t<>	Degree of protection (EN IEC 60529)	IP65. IP67
Recharcial data Material data Mechanical data Material data Mechanical data Mounting data Basic Mechanical data Mounting data Schraubgewinde Environmental characteristics Climatic Coperating temperature min. 20 °C Operating temperature man. 70 °C Additional condition temperature range depending on cable quality Installation Cable 48 Cabbic identification 448 Jacked Color gray Type of Certificate CUBus Amount stranding 1 Stranding factor min. 51 mm Stranding factor min. 51 mm Stranding factor min. 9 wies around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 11 mm Stranding factor min. (type 2) 9 wies around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 10 mm Stranding factor min. (type 2) 100 mm Banding Fiece Filler yes wire arrangement 46.3 g/m Material jacket PUR	<u> </u>	
Mechanical data Material housing Plastic Mechanical data Mounting method Schraubgewinde Environmental characteristics Climatic Poperating temperature min. 20 °C Operating temperature max. 70 °C Additional condition temperature range. 70 °C Additional condition temperature max. 70 °C Additional condition temperature range. 70 °C Cable identification 448 Jacked Color gray Type of Certificate CUPus Amount stranding 1 Stranding factor min. 51 mm Stranding factor max. 51 mm Stranding factor min. (type 2) 1 Stranding factor min. (type 2) 1 Stranding factor min. (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor min. (type 3) 45 5 5 m 6 Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigh 46,3 g/m Material jacket PUR Shore hardness jacket PuR Annount wires a 4 Annount wires 15 % Shore hardness wire insulation 1.8 mm Outer diameter (jacket) 55 % Shore hardness wire insulation 1.8 mm Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer diameter insulation 1.5 % Shore hardness wire insulation 1.6 mm Ingredient freeness wire insulation 1.6 mm Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Diameter of single wires 0.1 mm		
Material housing Plastic Mechanical data Mounting data Mounting method Schraubgewinde Environmental characteristics Cititatic Commental characteristics Cititatic Operating temperature min. 20 °C Operating temperature max. 70 °C Additional condition temperature range depending on cable quality Installation Cable Cable Cable identification 448 Jackot Color gray Type of Certificate cURus Annount stranding 1 Stranding factor min. 51 mm Stranding factor max. 51 mm Annount stranding (type 2) 1 Stranding factor min. (type 2) 100 mm Stranding factor		flame retardant
Mechanical data Mounting method Schraubgewinde Environmental characteristics Climatic Operating temperature min. 20 °C Operating temperature max. 70 °C Additional condition temperature range depending on cable quality Installation Cable Cable identification Cable identification stranding 448 Jacked Color gray Type of Certificate cURus Amount stranding 1 Stranding factor min. 51 mm Stranding factor max. 51 mm Annount stranding (type 2) 1 Stranding factor min. (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor min. (type 2) 100 mm Banding Fleece Filler yes wive arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weight 146,3 g/m Material jacket PLR Shore hardness jacket PLR Shore hardness jacket pes<	Mechanical data Material data	
Mounting method Schraubgewinde Environmental characteristics Climatic Operating temperature min. 20 °C Operating temperature max. 70 °C Additional condition temperature range depending on cable quality depending on cable quality Installation Cable Cable identification 448 Jacker Color gray Type of Certificate CURus Amount stranding 1 Stranding factor min. 51 mm Stranding factor min. 51 mm Stranding factor max. 51 mm Amount stranding (type 2) 1 Stranding factor max. 51 mm Amount stranding (type 2) 10 mm Macronal Stranding factor max. 100 mm Stranding factor max. (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor max. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Macronal stranding (type 2) 100 mm Banding Fleece yes Wife arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red blue, green, green-white, brown-green) Cable weight 45.3 gray Mate	Material housing	Plastic
Environmental characteristics Climatic Operating temperature min.	Mechanical data Mounting data	
Environmental characteristics Climatic Operating temperature min.	Mounting method	Schraubgewinde
Operating temperature max. 70 °C Additional condition temperature range depending on cable quality Installation Cable Cable identification	Environmental characteristics Climatic	
Operating temperature max. 70 °C Additional condition temperature range depending on cable quality Installation Cable Cable identification	Operating temperature min.	-20 °C
Additional condition temperature range depending on cable quality Installation Cable Cable identification 448 Jacket Color gray Type of Cartificate cUPus Amount stranding 1 Stranding 2 wires with Filler twisted Stranding factor min. 51 mm Stranding factor max. 51 mm Amount stranding (type 2) 1 Stranding factor min. (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pirik, red-blue, green, green-white, brown-green) Cable weight 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) 9 mm Tolerance outer diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation 1,6 mm	· · · · · · · · · · · · · · · · · · ·	
Installation Cable Cable identification 448 Jacket Color gray Type of Certificate cURus Amount stranding 1 Stranding 2 wires with Filler twisted Stranding factor min. 51 mm Stranding factor max. 51 mm Amount stranding (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146.3 g/m Material jacket PUR Shore hardness jacket PUR Shore hardness jacket pus descriptions, gray, gray-pink, red-blue, green, green-white, brown-green) User-diameter (jacket) 9 mm Tolerance outer diameter (sheath) 5 % Material jacket 9 mm Outer diameter (sheath) 5 % <tr< td=""><td></td><td></td></tr<>		
Cable identification 448 Jacket Color gray Type of Certificate cURus Amount stranding 1 Stranding 2 wires with Filler twisted Stranding factor min. 51 mm Stranding factor max. 51 mm Amount stranding (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket PUR Freedom from ingredients (jacket) 94 ± 5 Shore A Freedom from ingredients (jacket) 9 mm Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation 1,6 mm Outer diameter tolerance core insulation 1,6 mm		
Jacket Color gray Type of Certificate cURus Amount stranding 1 Stranding actor min. 51 mm Stranding factor max. 51 mm Amount stranding (type 2) 1 Stranding factor min. (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation 1,6 mm Outer diameter insulation 1,6 mm Outer diameter insulation 5 ± 3 Shore D Ingredient freeness wire insulation 16 4	·	448
Type of Certificate cURus Amount stranding 1 Stranding 2 wires with Filler twisted Stranding factor min. 51 mm Stranding factor max. 51 mm Amount stranding (type 2) 1 Stranding factor min. (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor win. (type 2) 200 mm Cable wight <t< td=""><td></td><td></td></t<>		
Amount stranding 1 Stranding 2 wires with Filler twisted Stranding factor min. 51 mm Stranding factor max. 51 mm Amount stranding (type 2) 1 Stranding (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter insulation 5 ± 3 Shore D Ingredient freeness wire insulation 5 ± 3 Shore D		
Stranding 2 wires with Filler twisted Stranding factor min. 51 mm Stranding factor max. 51 mm Amount stranding (type 2) 1 Stranding factor min. (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter insulation 55 ± 3 Shore D Ingredient freeness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free		
Stranding factor min. 51 mm Stranding factor max. 51 mm Amount stranding (type 2) 1 Stranding factor min. (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 9 the stranding-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter insulation 5 5 ± 3 Shore D Ingredient freeness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm		
Stranding factor max. 51 mm Amount stranding (type 2) 1 Stranding (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Banding Fieece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 5 ± 3 Shore D Shore hardness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm		
Amount stranding (type 2) 1 Stranding (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter tolerance core insulation 1,6 mm Outer diameter tolerance core insulation 55 ± 3 Shore D Ingredient freeness wire insulation 1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm		
Stranding (type 2) 9 wires around Stranding combination counter-rotating twisted Stranding factor min. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation 1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm		
Stranding factor min. (type 2) 100 mm Stranding factor max. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm		
Stranding factor max. (type 2) 100 mm Banding Fleece Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm		
Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm		
Filler yes wire arrangement white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green) Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Banding	
Cable weigth 146,3 g/m Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Filler	yes
Material jacket PUR Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	wire arrangement	white, yellow, (blue, brown, green-yellow, gray, gray-pink, red-blue, green, green-white, brown-green)
Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Cable weigth	146,3 g/m
Shore hardness jacket 94 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Material jacket	-
Freedom from ingredients (jacket) Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation \$5 \times 3 \times 5 \times 3 \times 3 \times 3 \times 5 \times 3 \times 3 \times 5	Shore hardness jacket	
Outer-diameter (jacket) 9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE-E Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Material wire insulationTPE-EAmount wires8Outer diameter insulation1,6 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeAmount strands (wire)64Diameter of single wires0,1 mm	Outer-diameter (jacket)	·
Amount wires 8 Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ±5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1,6 mm Outer diameter tolerance core insulation ±5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Material wire insulation	TPE-E
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Amount wires	8
Shore hardness wire insulation 55 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Outer diameter insulation	1,6 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free Amount strands (wire) 64 Diameter of single wires 0,1 mm	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) 64 Diameter of single wires 0,1 mm	Shore hardness wire insulation	55 ± 3 Shore D
Diameter of single wires 0,1 mm	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
·	Amount strands (wire)	64
Conductor crosssection (wire) 0,5 mm ²	Diameter of single wires	0,1 mm
	Conductor crosssection (wire)	0,5 mm²



stay connected

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)	±5%
Shore hardness wire insulation (Data)	55 ± 3 Shore D
Ingredient freeness wire insulation (Data)	lead-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)	0,1 mm
Conductor crosssection wire (Data)	1 mm ²
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 (claridate) 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
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.
Torsion stress	± 180 °/m
Connection type 2	
Family construction form	free cable end
No. of poles	11
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	
	- NO C 1
PIN 4	NO S 1
CINI	PE