## Connecting cable NEBL-T12G4-E-10-N-LE4 Part number: 8080792

**FESTO** 



## **Data sheet**

Shield no Certificate issuing authority UL E504946 Based on norm EN 61076-2-111 Certification CUL us - Usted (OU) Cable designation Without label holder Product weight 1051 g Electrical connection 1, function Field device end Electrical connection 1, function Field device end Electrical connection 1, connection type Socket Electrical connection 1, connection type Socket Electrical connection 1, connection technology M12x1, T-coded as per EN 61076-2-111 Electrical connection 1, connection technology M2x1, T-coded as per EN 61076-2-111 Electrical connection 1, type of mounting Screw-type lock Electrical connection 1, type of mounting Screw-type lock Electrical connection 7, type of mounting Screw-type lock Electrical connection 1, comection pattern Socket, M12x1 T-coded as per EN 61076-2-111, 4-pole Electrical connection 2, tunction Control side Electrical connection 2, connection type Cable Electrical connection 2, connection type Cable Electrical connection 2, connection technology Open end Electrical connection 2, number of pins/wires 4 Electrical connection 2, not mable of pins/wires 4 Electrical connection 3, occupied pins/wires 4 Electrical connection 3, occupied pins/wires 4 Electrical connection 4, occupied pins/wires 5 Electrical connection 5, occupied pins/wires 6 Electrical connection 6, occupied pins/wires 6 Electrical connection 7, occupied pins/wires 9 Electrical connection 8, occupied pins/wires 9 Electrical connection 9, occupi	Feature	Value
Certificate issuing authority  Based on norm  EN 61076-2-111  Cut us - Listed (OL)  Cable designation  Without label holder  Product weight  1051 g  Electrical connection 1, function  Electrical connection 1, function  Electrical connection 1, design  Round  Electrical connection 1, connection type  Electrical connection 1, connection technology  M12x1, T-coded as per EN 61076-2-111  Electrical connection 1, number of pins/wires  4  Electrical connection 1, type of mounting  Screw-type lock  Electrical connection 1, type of mounting  Screw-type lock  Electrical connection 2, function  Control side  Electrical connection 2, connection type  Electrical connection 2, connection type  Electrical connection 2, connection type  Electrical connection 2, connection technology  Open end  Electrical connection 2, connection technology  Open end  Electrical connection 2, connection technology  Open end  Electrical connection 2, connection technology  Operating voltage range  Ov63 V  Operating voltage range  Ov63 V  Operating voltage range  Ov63 V  Current rating at 40°C  Current rating at	Type code	NEBL
Based on norm  EN 61076-2-111 Certification  CUL us - Listed (OL) Cable designation  Without label holder  Product weight Electrical connection 1, function Electrical connection 1, function Electrical connection 1, connection type Electrical connection 1, cable outlet Electrical connection 1, cable outlet Electrical connection 1, connection technology Electrical connection 1, number of pins/wires  4 Electrical connection 1, conpection pins/wires  4 Electrical connection 1, type of mounting Screw-type lock Electrical connection 1, type of mounting Screw-type lock Electrical connection 2, connection type Electrical connection 2, connection type Cable Electrical connection 2, connection type Cable Electrical connection 2, connection type Electrical connection 2, connection technology Open end Electrical connection 2, connection technology Open end Electrical connection 2, coupled pins/wires  4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, onnection 1, type of pins/wires 4 Electrical connection 2, occupied pins/wires 4 El	Shield	no
Certification cuber of the comment o	Certificate issuing authority	UL E504946
Cable designation Without label holder Product weight 1051 g 1161 device end Electrical connection 1, function Field device end Field device end Field connection 1, design Round Field connection 1, cable outlet Straight Field connection 1, cable outlet Straight Field connection 1, connection technology M12x1, T-coded as per EN 61076-2-111 Field connection 1, number of pins/wires 4 Field connection 1, number of pins/wires 4 Field connection 1, toccupied pins/wires 4 Field connection 1, type of mounting Screw-type lock Field connection 1, type of mounting Screw-type lock Field connection 1, type of mounting Field connection 2, function Field connection 2, function Control side Field connection 2, function Control side Field connection 2, connection type Field Connection 2, connection type Field Field Connection 2, connection type Field Connection 2, connection type Field Fie	Based on norm	EN 61076-2-111
Product weight Electrical connection 1, function Electrical connection 1, design Round Electrical connection 1, connection type Socket Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology M12x1, T-coded as per EN 61076-2-111 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 4 Electrical connection 1, type of mounting Electrical connection 1, type of mounting Electrical connection 1, type of mounting Electrical connection 2, function Control side Electrical connection 2, connection type Cable Electrical connection 2, connection type Cable Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, connection type Cable Cable Electrical connection 2, connection type Cable Cable Electrical connection 2, connection type Cable Electrical connection 2, connection 2, connection type Cable Electrical c	Certification	c UL us - Listed (OL)
Electrical connection 1, function Electrical connection 1, design Round Electrical connection 1, connection type Socket Electrical connection 1, cable outlet Straight Electrical connection 1, cable outlet Straight Electrical connection 1, connection technology M12x1, T-coded as per EN 61076-2-111 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 4 Electrical connection 1, type of mounting Screw-type lock Electrical connection 1, type of mounting Screw-type lock Electrical connection 2, function Control side Electrical connection 2, function Control side Electrical connection 2, connection type Cable Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, connection technology Open end Electrical connection 2, occupied pins/wires 4 DC operating voltage range OV 63 V Operating voltage range AC OV 63 V  Current rating at 40°C 12 A Surge resistance 1.5 kV Cable length 10 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation 242 mm Bending radius, fixed cable installation 284 mm Cable diameter Cable diameter Cable diameter Cable diameter Cable diameter tolerance 4.0.25 mm Nominal conductor cross section 1.5 mm²	Cable designation	Without label holder
Electrical connection 1, design Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology M12x1, T-coded as per EN 61076-2-111 Electrical connection 1, number of pins/wires Electrical connection 1, number of pins/wires 4 Electrical connection 1, type of mounting Screw-type lock Electrical connection for input 1, connection pattern Socket, M12x1 T-coded as per EN 61076-2-111, 4-pole Electrical connection 2, function Control side Electrical connection 2, function Electrical connection 2, connection type Cable Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 6 Electrical connection 2	Product weight	1051 g
Electrical connection 1, connection type Electrical connection 1, cable outlet Electrical connection 1, connection technology M12x1, T-coded as per EN 61076-2-111 Electrical connection 1, number of pins/wires 4 Electrical connection 1, occupied pins/wires 4 Electrical connection 1, type of mounting Electrical connection 2, function Control side Electrical connection 2, connection type Cable Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, number of pins/wires 4 Electrical connection 2, number of pins/wires 4 Electrical connection 2, occupied pins/wires 6 Electrical connection 2, occupie	Electrical connection 1, function	Field device end
Electrical connection 1, cable outlet  Electrical connection 1, connection technology  M12x1, T-coded as per EN 61076-2-111  Electrical connection 1, number of pins/wires  4  Electrical connection 1, type of mounting  Electrical connection 1, type of mounting  Electrical connection 1, type of mounting  Electrical connection for input 1, connection pattern  Socket, M12x1 T-coded as per EN 61076-2-111, 4-pole  Electrical connection 2, function  Electrical connection 2, function  Electrical connection 2, connection type  Electrical connection 2, connection type  Electrical connection 2, number of pins/wires  4  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  4  DO operating voltage range  OV 63 V  Our-63 V  Current rating at 40°C  Electrical tonaction 1, and to a visual to a	Electrical connection 1, design	Round
Electrical connection 1, connection technology  Electrical connection 1, number of pins/wires  Electrical connection 1, occupied pins/wires  Electrical connection 1, type of mounting  Electrical connection 2, function  Control side  Electrical connection 2, connection type  Electrical connection 2, connection type  Electrical connection 2, connection type  Electrical connection 2, number of pins/wires  4  Electrical connection 2, number of pins/wires  4  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, ocmose of pins/wires  4  Electrical connection 2, on motion technology  Dopen end  Electrical connection 2, ocmose of pins/wires  4  Electrical connection 3  Electrical connection 40  Electrical connection	Electrical connection 1, connection type	Socket
Electrical connection 1, number of pins/wires  Electrical connection 1, occupied pins/wires  Electrical connection 1, type of mounting  Electrical connection 1, type of mounting  Electrical connection for input 1, connection pattern  Electrical connection 2, function  Electrical connection 2, ocnnection type  Electrical connection 2, connection type  Electrical connection 2, connection technology  Open end  Electrical connection 2, number of pins/wires  4  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  4  DO operating voltage range  OV 63 V  Operating voltage range AC  OV 63 V  Current rating at 40°C  12 A  Surge resistance  1.5 kV  Cable length  10 m  Cable characteristic  Suitable for energy chains  Electrocation son request  Bending radius, fixed cable installation  Bending radius, fixed cable installation  Bending radius, flexible cable installation  Electrical connector cable test conditions  Electrical connection 2, connection 2, connection 2, connection 2, connector cable end cable installation  242 mm  Bending radius, fixed cable installation  284 mm  Cable diameter  Cable diameter tolerance  2.0.25 mm  Cable diameter tolerance  2.0.25 mm  Nominal conductor cross section  1.5 mm²	Electrical connection 1, cable outlet	Straight
Electrical connection 1, occupied pins/wires  Electrical connection 1, type of mounting  Electrical connection for input 1, connection pattern  Electrical connection 2, function  Electrical connection 2, function  Electrical connection 2, connection type  Electrical connection 2, connection technology  Open end  Electrical connection 2, occupied pins/wires  4  DC operating voltage range  OV 63 V  Current rating at 40°C  Surge resistance  1.5 kV  Cable length  Cable length  Cable characteristic  Suitable for energy chains  Ending radius, fixed cable installation  Ending radius, flexible cable installation  Ending	Electrical connection 1, connection technology	M12x1, T-coded as per EN 61076-2-111
Electrical connection 1, type of mounting  Electrical connection for input 1, connection pattern  Electrical connection 2, function  Electrical connection 2, connection type  Electrical connection 2, connection type  Electrical connection 2, connection technology  Open end  Electrical connection 2, number of pins/wires  4  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  4  Do operating voltage range  Ov 63 V  Operating voltage range AC  Ov 63 V  Current rating at 40°C  Electrical connection 2, occupied pins/wires  1.5 kV  Current rating at 40°C  Surge resistance  1.5 kV  Cable length  10 m  Cable characteristic  Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  Electrical connection 2, occupied pins/wires  8.4 mm  Cable diameter  Cable diameter tolerance  20.25 mm  Connector conductor cross section  1.5 mm²  Nominal conductor cross section	Electrical connection 1, number of pins/wires	4
Electrical connection for input 1, connection pattern  Electrical connection 2, function  Electrical connection 2, connection type  Electrical connection 2, connection type  Electrical connection 2, connection technology  Open end  Electrical connection 2, number of pins/wires  Electrical connection 2, occupied pins/wires  Electrical connection 2, occupied pins/wires  Do operating voltage range  Ov 63 V  Operating voltage range AC  Ov 63 V  Current rating at 40°C  Surge resistance  1.5 kV  Cable length  Cable length  Cable characteristic  Suitable for energy chains  Test conditions on request  Bending radius, fixed cable installation  Electrical connector cable test conditions  Electrical connector cable test conditions  Electrical connector cable cable installation  Electrical connector cable diameter  Electrical connector consecutions  Electrical connector cable installation  Electrical connector cable cable installation  Electrical connection 2, connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm  Electrical connection 2, one dead and a cable installation 242 mm	Electrical connection 1, occupied pins/wires	4
Electrical connection 2, function  Cable  Electrical connection 2, connection type  Cable  Electrical connection 2, connection technology  Open end  Electrical connection 2, number of pins/wires  4  Electrical connection 2, occupied pins/wires  4  DC operating voltage range  OV 63 V  Operating voltage range AC  OV 63 V  Current rating at 40°C  12 A  Surge resistance  Cable length  10 m  Cable characteristic  Suitable for energy chains  Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  Bending radius, flexible cable installation  Bending radius, flexible cable installation  Bending radius, flexible cable installation  284 mm  Cable diameter  Cable diameter  Cable design  4 x 1.5 mm²  Nominal conductor cross section  Cable connector cross section	Electrical connection 1, type of mounting	Screw-type lock
Electrical connection 2, connection type  Electrical connection 2, connection technology  Den end  Electrical connection 2, number of pins/wires  4  Electrical connection 2, occupied pins/wires  4  DC operating voltage range  OV 63 V  Operating voltage range AC  OV 63 V  Current rating at 40°C  12 A  Surge resistance  1.5 kV  Cable length  10 m  Cable characteristic  Suitable for energy chains  Connector cable test conditions  Ending radius, fixed cable installation  Bending radius, flexible cable installation  Bending radius, flexible cable installation  242 mm  Bending radius, flexible cable installation  284 mm  Cable diameter  Cable diameter  4. 4 mm  Cable diameter tolerance  4. 0.25 mm  Nominal conductor cross section  1.5 mm²	Electrical connection for input 1, connection pattern	Socket, M12x1 T-coded as per EN 61076-2-111, 4-pole
Electrical connection 2, connection technology  Electrical connection 2, number of pins/wires  4  Electrical connection 2, occupied pins/wires  4  DO operating voltage range  OV 63 V  Operating voltage range AC  Oursent rating at 40°C  Surge resistance  Cable length  Cable characteristic  Connector cable test conditions  Bending radius, fixed cable installation  Bending radius, flexible cable installation  Electrical connection 2, ocneeding pins/wires  4  OV 63 V  OV 63 V  Oursent rating at 40°C  12 A  Surge resistance  1.5 kV  Cable diameter  Connector cable test conditions  Test conditions on request  Electrical connector radius, fixed cable installation  242 mm  Electrical connector radius, flexible cable installation  284 mm  Cable diameter  Cable diameter  4.0.25 mm  Cable diameter tolerance  4.0.25 mm  Nominal conductor cross section  1.5 mm²	Electrical connection 2, function	Control side
Electrical connection 2, number of pins/wires  4  Electrical connection 2, occupied pins/wires  4  DC operating voltage range  OV 63 V  Operating voltage range AC  OV 63 V  Current rating at 40°C  12 A  Surge resistance  1.5 kV  Cable length  10 m  Cable characteristic  Suitable for energy chains  Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  Bending radius, flexible cable installation  242 mm  Bending radius, flexible cable installation  284 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Av 1.5 mm²  Nominal conductor cross section  1.5 mm²	Electrical connection 2, connection type	Cable
Electrical connection 2, occupied pins/wires  DC operating voltage range  DC operating voltage range AC  OV 63 V  Current rating at 40°C  Electrical connection 2, occupied pins/wires  OV 63 V  Current rating at 40°C  Electrical connection 2, occupied pins/wires  OV 63 V  Current rating at 40°C  12 A  Surge resistance  1.5 kV  Cable length  Cable characteristic  Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  Elending radius, fixed cable installation  Elending radius, flexible cable installation  Elendi	Electrical connection 2, connection technology	Open end
DC operating voltage range  OV 63 V  Operating voltage range AC  OV 63 V  Current rating at 40°C  12 A  Surge resistance  1.5 kV  Cable length  10 m  Cable characteristic  Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  Bending radius, flexible cable installation  Bending radius, flexible cable installation  284 mm  Cable diameter  Cable diameter  Cable diameter tolerance  4 x 1.5 mm²  Nominal conductor cross section  1.5 mm²	Electrical connection 2, number of pins/wires	4
Operating voltage range AC  Current rating at 40°C  Surge resistance  1.5 kV  Cable length  10 m  Cable characteristic  Suitable for energy chains  Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  Bending radius, flexible cable installation  Bending radius, flexible cable installation  284 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design  4 x 1.5 mm²  Nominal conductor cross section  1.5 mm²	Electrical connection 2, occupied pins/wires	4
Current rating at 40°C  Surge resistance  1.5 kV  Cable length  10 m  Cable characteristic  Connector cable test conditions  Bending radius, fixed cable installation  Bending radius, flexible cable installation  Bending radius, flexible cable installation  284 mm  Cable diameter  Cable diameter tolerance  \$40.25 mm  Cable design  Va 1.5 mm²  Nominal conductor cross section	DC operating voltage range	0 V 63 V
Surge resistance  1.5 kV  Cable length  10 m  Cable characteristic  Connector cable test conditions  Bending radius, fixed cable installation  Bending radius, flexible cable installation  ≥84 mm  Cable diameter  Cable diameter  Cable design  4 x 1.5 mm²  Nominal conductor cross section  1.5 kV  1.5 k	Operating voltage range AC	0 V 63 V
Cable length  Cable characteristic  Connector cable test conditions  Ending radius, fixed cable installation  Bending radius, flexible cable installation  ≥84 mm  Cable diameter  Cable diameter tolerance  ± 0.25 mm  Cable design  Vaniable for energy chains  Test conditions on request  ≥42 mm  ≥84 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design  1.5 mm²  Nominal conductor cross section	Current rating at 40°C	12 A
Cable characteristic  Connector cable test conditions  Bending radius, fixed cable installation  Bending radius, flexible cable installation  ≥84 mm  Cable diameter  Cable diameter tolerance  ± 0.25 mm  Cable design  Value of the properties of t	Surge resistance	1.5 kV
Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  ≥42 mm  Bending radius, flexible cable installation  ≥84 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design  4 x 1.5 mm²  Nominal conductor cross section  1.5 mm²	Cable length	10 m
Bending radius, fixed cable installation  ≥42 mm  Ending radius, flexible cable installation  ≥84 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design  4 x 1.5 mm²  Nominal conductor cross section  1.5 mm²	Cable characteristic	Suitable for energy chains
Bending radius, flexible cable installation  ≥84 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design  4 x 1.5 mm²  Nominal conductor cross section  1.5 mm²	Connector cable test conditions	Test conditions on request
Cable diameter 8.4 mm Cable diameter tolerance ± 0.25 mm Cable design 4 x 1.5 mm <sup>2</sup> Nominal conductor cross section 1.5 mm <sup>2</sup>	Bending radius, fixed cable installation	≥42 mm
Cable diameter tolerance ± 0.25 mm  Cable design 4 x 1.5 mm <sup>2</sup> Nominal conductor cross section 1.5 mm <sup>2</sup>	Bending radius, flexible cable installation	≥84 mm
Cable design 4 x 1.5 mm <sup>2</sup> Nominal conductor cross section 1.5 mm <sup>2</sup>	Cable diameter	8.4 mm
Nominal conductor cross section 1.5 mm <sup>2</sup>	Cable diameter tolerance	± 0.25 mm
	Cable design	4 x 1.5 mm <sup>2</sup>
Wire ends Stripped	Nominal conductor cross section	1.5 mm <sup>2</sup>
	Wire ends	Stripped

Feature	Value
Degree of protection	IP65 IP67
Note on degree of protection	In mounted state
Ambient temperature	-25 °C 80 °C
Ambient temperature with flexible cable installation	-25 °C 80 °C
CE marking (see declaration of conformity)	As per EU RoHS directive
Note on materials	RoHS-compliant
Contamination level	3
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Material of cable sheath	TPE-U(PUR)
Color cable sheath	Black
Housing material	PA
Housing colour	Black
Material of screw-type lock	Die-cast zinc, nickel-plated
Seals material	NBR
Material of pin contacts	Brass
Insulating sheath material	PP