## Connecting cable NEBL-T12W4-E-2-N-LE4 Part number: 8080778

**FESTO** 



## **Data sheet**

Certification cUL us - Listed (OL) Certificate issuing authority UL E504946 Cable designation Without label holder Product weight Electrical connection 1, function Electrical connection 1, function Electrical connection 1, design Round 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 Screw-type lock Electrical connection 2, function Control side Electrical connection 2, connection type Cable Electrical connection 2, connection technology Open end Electrical connection 2, connection technology Electrical connection 2, connection technology Electrical connection 2, counted pins/wires 4 Electrical connection 2, counted pins/wires 4 Electrical connection 2, counted pins/wires 4 Electrical connection 2, connection technology Open end Electrical connection 2, connection technology Electrical connection 2, ocupied pins/wires 4 Electrical connection 2, counted pins/wires 4 Electrical connection 2, ocupied pins/wires 5 Coperating voltage range 0 V63 V Current rating at 40° C 12 A Surge resistance 1.5 kV Shield no Cable length 2 m Cable danacteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation 84 mm Cable danacter 8.4 mm Eachle danacter Cable danacter 4.2.25 mm Cable danacter Cable danacter Cable danacter Cable design 4 x 1.5 mm²	Feature	Value
Certificate issuing authority  Cable designation  Without label holder  Product weight  243 g  Electrical connection 1, function  Electrical connection 1, function  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, number of pins/wires  4  Electrical connection 1, type of mounting  Screw-type lock  Electrical connection 2, function  Control side  Electrical connection 2, connection type  Cable  Electrical connection 2, connection type  Cable  Electrical connection 2, connection technology  Open end  Electrical connection 2, concupied pins/wires  4  Electrical connection 2, cocupied pins/wires  4  Electrical connection 2, occupied pins/wires  A  DC operating voltage range  OV63 V  Current rating at 40° C  Surge resistance  1,5 kV  Shield  no  Cable length  2 m  Cable characteristic  Suitable for energy chains  Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  84 mm  Cable diameter  Cable diameter  Cable diameter  Cable diameter  Cable diameter tolerance  4 v.1.5 mm²	Based on norm	EN 61076-2-111
Cable designation Without label holder Product weight 243 g Electrical connection 1, function Field device end Electrical connection 1, design Round Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, conhection 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 2, function Control side Electrical connection 2, connection type Cable Electrical connection 2, connection technology Open end Electrical connection 2, connection technology Open end Electrical connection 2, coupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 Electrical connection 2, coupied pins/wires 4 Electrical connection 2, coupied pins/wires 4 Electrical connection 2, occupied pins/wires 5 Electrical connection 2, coupied pins/wires 5 Electrical connection 3, connection 1, type of mounting Electrical connection 4 Electrical connection 4 Electrical connection 4 Electrical connection 6 Electrical connection 7, connection 1, type of mounting Electrical connection 8 Electrical connec	Certification	c UL us - Listed (OL)
Product weight  Electrical connection 1, function  Electrical connection 1, design  Electrical connection 1, connection type  Socket  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  Screw-type lock  Electrical connection 2, function  Control side  Electrical connection 2, connection technology  Open end  Electrical connection 2, connection technology  Open end  Electrical connection 2, connection technology  Open end  Electrical connection 2, cocupied pins/wires  4  Electrical connection 2, occupied pins/wires  5  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  5  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  5  Electrical connection 2, occupied pins/wires  6  Electrical connection 2, occupied pin	Certificate issuing authority	UL E504946
Electrical connection 1, function  Electrical connection 1, design  Electrical connection 1, connection type  Electrical connection 1, connection type  Electrical connection 1, connection type  Electrical connection 1, connection tethnology  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 tethnology  Den end  Electrical connection 2, connection tethnology  Open end  Electrical connection 2, number of pins/wires  4  Electrical connection 2, connection tethnology  Open end  Electrical connection 2, cocupied pins/wires  4  Electrical connection 2, cocupied pins/wires  4  Electrical connection 2, occupied pins/wires  5  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  5  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  5  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  5  Electrical connection 2, occupied pins/wires  6  Electrical connection 2, occu	Cable designation	Without label holder
Electrical connection 1, design 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, type of mounting 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, county open end Electrical connection 2, connection technology Electrical connection 2, connection technology Open end Electrical connection 2, county open end Electrical connection 2, connection technology Open end 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 A  Electrical con	Product weight	243 g
Electrical connection 1, connection type Electrical connection 1, cable outlet 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 Screw-type lock Electrical connection 2, function Electrical connection 2, function 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, occupied pins/wires 4 Electrical connection 2, ocmetion technology Open end Electrical connection 2, occupied pins/wires 4 Electrical connection 2, ocmetion technology Open end Electrical connection 2, ocmetion technology Open end Electrical connection 2, ocmetion to pins/wires 4 Electrical connection 2, occupied pins/wires 6 Electrical connection 2, occupied	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, occupied pins/wires 4 Electrical connection 1, type of mounting Screw-type lock Electrical connection 2, function 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, occupied pins/wires 4 Electrical connection 2, occupied pins/wires 4 DC operating voltage range O V63 V Current rating at 40° C 12 A Surge resistance 1.5 kV Shield no Cable length 2 m Cable length Cable test conditions Test conditions on request Bending radius, fixed cable installation Bending radius, fixed cable installation Bending radius, flexible cable installation Bending radius, flexible cable installation Edble diameter Cable diameter tolerance 4 0.25 mm Cable diameter tolerance 4 0.25 mm Cable design	Electrical connection 1, design	Round
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 2, function  Control side  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  Electrical connection 2, occupied pins/wires  4  DC operating voltage range  OV63 V  Current rating at 40° C  Surge resistance  1.5 kV  Shield  Cable length  2 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  Cable diameter  Cable diameter tolerance  4 x 1.5 mm²	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 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  DC operating voltage range  O V63 V  Current rating at 40° C  Surge resistance  1.5 kV  Shield  no  Cable length  2 m  Cable characteristic  Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  Bending radius, flexible cable installation  84 mm  Cable diameter  Cable diameter tolerance  4 x 1.5 mm²	Electrical connection 1, cable outlet	Angled
Electrical connection 1, occupied pins/wires  Electrical connection 2, function  Electrical connection 2, connection type  Electrical connection 2, connection type  Electrical connection 2, connection type  Electrical connection 2, number of pins/wires  Electrical connection 2, occupied pins/wires  DC operating voltage range  OV63 V  Current rating at 40° C  Surge resistance  1.5 kV  Shield  no  Cable length  2 m  Cable length  Cable characteristic  Suitable for energy chains  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	Electrical connection 1, connection technology	M12x1, T-coded as per EN 61076-2-111
Electrical connection 1, type of mounting  Electrical connection 2, function  Electrical connection 2, connection type  Electrical connection 2, connection technology  Den end  Electrical connection 2, number of pins/wires  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  4  DC operating voltage range  OV63 V  Current rating at 40° C  Surge resistance  1.5 kV  Shield  no  Cable length  2 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  Each design  4 x 1.5 mm²	Electrical connection 1, number of pins/wires	4
Electrical connection 2, function  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  OV63 V  Current rating at 40° C  Surge resistance  1.5 kV  Shield  no  Cable length  2 m  Cable characteristic  Suitable for energy chains  Connector cable test conditions  Ending radius, fixed cable installation  Bending radius, flexible cable installation  84 mm  Cable diameter  Cable diameter  8.4 mm  Cable design  4 x 1.5 mm²	Electrical connection 1, occupied pins/wires	4
Electrical connection 2, connection type  Electrical connection 2, connection technology  Electrical connection 2, number of pins/wires  Electrical connection 2, occupied pins/wires  4  Electrical connection 2, occupied pins/wires  5  Electrical connection 2, occupied pins/wires  6  Electrical connection 2, occupied pins/electrical 2, occupied pins/electrical 2, occupied pins/e	Electrical connection 1, type of mounting	Screw-type lock
Electrical connection 2, connection technology  Electrical connection 2, number of pins/wires  Electrical connection 2, occupied pins/wires  DC operating voltage range  OV63 V  Current rating at 40° C  Surge resistance  1.5 kV  Shield  no  Cable length  2 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  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design	Electrical connection 2, function	Control side
Electrical connection 2, number of pins/wires  Electrical connection 2, occupied pins/wires  DC operating voltage range  OV63 V  Current rating at 40° C  Surge resistance  1.5 kV  Shield  no  Cable length  2 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  Cable diameter  Cable diameter  Electrical connection 2, number of pins/wires  4  DC  DC  DC  DC  DC  DC  DC  DC  DC	Electrical connection 2, connection type	Cable
Electrical connection 2, occupied pins/wires  DC operating voltage range  O V63 V  Current rating at 40° C  Surge resistance  1.5 kV  Shield  no  Cable length  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  Cable diameter  Cable diameter  B.4 mm  Cable diameter tolerance  \$4 x 1.5 mm²	Electrical connection 2, connection technology	Open end
DC operating voltage range  O V63 V  Current rating at 40° C  Surge resistance  1.5 kV  Shield  no  Cable length  2 m  Cable characteristic  Suitable for energy chains  Connector cable test conditions  Bending radius, fixed cable installation  Bending radius, flexible cable installation  Bending radius, flexible cable installation  Cable diameter  Cable diameter  Cable design  O V63 V  12 A  Suitable for energy chains  Test conditions on request  42 mm  84 mm  Cable diameter  8.4 mm  Cable diameter  Cable design	Electrical connection 2, number of pins/wires	4
Current rating at 40° C  Surge resistance  1.5 kV  Shield  no  Cable length  2 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  84 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design  4 x 1.5 mm²	Electrical connection 2, occupied pins/wires	4
Surge resistance  1.5 kV  Shield  no  Cable length  2 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  84 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design	DC operating voltage range	0 V63 V
Shield no Cable length 2 m Cable characteristic Suitable for energy chains 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 mm <sup>2</sup>	Current rating at 40° C	12 A
Cable length 2 m  Cable characteristic Suitable for energy chains  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	Surge resistance	1.5 kV
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  84 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design  4 x 1.5 mm²	Shield	no
Connector cable test conditions  Test conditions on request  Bending radius, fixed cable installation  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	Cable length	2 m
Bending radius, fixed cable installation  Bending radius, flexible cable installation  84 mm  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design  4 x 1.5 mm <sup>2</sup>	Cable characteristic	Suitable for energy chains
Bending radius, flexible cable installation  Cable diameter  8.4 mm  Cable diameter tolerance  ± 0.25 mm  Cable design  4 x 1.5 mm <sup>2</sup>	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>	Bending radius, fixed cable installation	42 mm
Cable diameter tolerance ± 0.25 mm  Cable design 4 x 1.5 mm <sup>2</sup>	Bending radius, flexible cable installation	84 mm
Cable design 4 x 1.5 mm <sup>2</sup>	Cable diameter	8.4 mm
5	Cable diameter tolerance	± 0.25 mm
Nominal conductor cross section 1.5 mm <sup>2</sup>	Cable design	4 x 1.5 mm <sup>2</sup>
	Nominal conductor cross section	1.5 mm <sup>2</sup>

Feature	Value
Wire ends	Stripped
Degree of protection	IP65 IP67
Note on degree of protection	In mounted state
Ambient temperature	-25 °C80 °C
Ambient temperature with flexible cable installation	-25 °C80 °C
CE marking (see declaration of conformity)	As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
LABS (PWIS) conformity	VDMA24364-B2-L
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