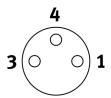
Connecting cable NEBU-M8G3-K-2.5-LE3 Part number: 541333

FESTO





Data sheet

Explosion prevention and protection Cobserve the information on the certificate Zone 2 (ATEX) Zone 22 (ATEX) Cable designation With 2x label holders Product weight 64 8 Electrical connection 1, function Electrical connection 1, function Electrical connection 1, design Round Electrical connection 1, connection type Socket Electrical connection 1, connection type Electrical connection 1, connection technology M8x1 A-coded as per EN 61076-2-104 Electrical connection 1, number of pins/wires 3 Electrical connection 1, procupied pins/wires 3 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 Electrical connection 2, connection type Electrical connection 2, number of pins/wires 3 Electrical connection 2, number of pins/wires 3 Electrical connection 2, connection type Cable Electrical connection 2, number of pins/wires 3 Electrical connection 2, ocnnection type Cable Electrical connection 2, number of pins/wires 3 Electrical connection 3 Electrical connection 3 Electrical connection 4 Electrical connection 5 Electrical connection 6 Electrical connection 6 Electrical connection 7 Electrical connection 8 Electrical connection 8 Electrical connection 9	Feature	Value
Zone 2 (AFEX) Zone 22 (AFEX) Zone 24 (AFEX) Zone 24 (AFEX) Zone 25 (AFEX) Zone 26	Conforms to standard	·
Product weight 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, connection technology M8x1 A-coded as per EN 61076-2-104 Electrical connection 1, number of pins/wires 3 Electrical connection 1, occupied pins/wires 3 Electrical connection 1, type of mounting Screw-type lock 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 Electrical connection 2, connection type Electrical connection 2, number of pins/wires 3 Electrical connection 2, coupled pins/wires 3 Electrical connection 2, occupied pins/wires 3 Electrical connection 2, occupied pins/wires 3 Co operating voltage range O V 60 V Operating voltage range AC OV 60 V Current rating at 40°C 3 A Surge resistance 1.5 kV Cable length 2.5 m Cable characteristic Standard Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, fixed cable installation 39 mm Cable diameter Cable diameter tolerance ± 0.1 mm	Explosion prevention and protection	Zone 2 (ATEX)
Electrical connection 1, function Electrical connection 1, design Electrical connection 1, connection type Electrical connection 1, cable outlet Electrical connection 1, cable outlet Electrical connection 1, connection technology Electrical connection 1, connection technology Electrical connection 1, number of pins/wires Belectrical connection 1, occupied pins/wires 3 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 Electrical connection 2, connection type Electrical connection 2, connection technology Open end Electrical connection 2, concupied pins/wires 3 Electrical connection 2, occupied pins/wires 3 Electrical connection 2, occupied pins/wires 3 Electrical connection 2, occupied pins/wires 3 Coperating voltage range OV 60 V Operating voltage range OV 60 V Current rating at 40°C 3A Surge resistance 1.5 kV Cable length Cable length Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation Bending radius, flexible cable installation 2.5 mm Cable diameter 3.8 mm Cable diameter tolerance	Cable designation	With 2x label holders
Electrical connection 1, design Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology M8x1 A-coded as per EN 61076-2-104 Electrical connection 1, number of pins/wires Electrical connection 1, number of pins/wires Electrical connection 1, occupied pins/wires Electrical connection 1, occupied pins/wires Electrical connection 1, type of mounting Electrical connection 1, type of mounting 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 technology Open end Electrical connection 2, concupied pins/wires 3 Electrical connection 2, occupied pins/w	Product weight	64 g
Electrical connection 1, connection type Electrical connection 1, cable outlet Electrical connection 1, connection technology M8x1 A-coded as per EN 61076-2-104 Electrical connection 1, number of pins/wires 3 Electrical connection 1, occupied pins/wires 3 Electrical connection 1, type of mounting Screw-type lock Electrical connection 1, type of mounting Electrical connection 1, type of mounting Electrical connection 2, connection pattern O0991871 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 3 Electrical connection 2, occupied pins/wires 3 Electrical connection 2, o	Electrical connection 1, function	Field device end
Electrical connection 1, cable outlet Electrical connection 1, connection technology M8x1 A-coded as per EN 61076-2-104 Electrical connection 1, number of pins/wires 3 Electrical connection 1, cocupied pins/wires 3 Electrical connection 1, type of mounting Ecrew-type lock Electrical connection 1, type of mounting Electrical connection 1, type of mounting Electrical connection 2, 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 3 Electrical connection 2, occupied pins/wires 3 Electrical connection 2, ocnection type Coperating voltage range OV 60 V Current rating at 40°C 3 A Surge resistance 1.5 kV Cable length Cable length Cable length Cable chairs sper Festo standard Test conditions on request Cable chairs 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation 12 mm Bending radius, fixed cable installation 39 mm Cable diameter Cable diameter tolerance 4 0.1 mm	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 1, type of mounting Electrical connection 2, function 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 3 Electrical connection 2, occupied pins/wires 3 Electrical connection 2, occupied pins/wires 3 DC operating voltage range OV 60 V Operating voltage range AC OV 60 V Current rating at 40°C Surge resistance 1.5 kV Cable length Cable characteristic Standard Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation 2.8 mm Cable diameter Cable diameter tolerance ### AS A ### A-coded as per EN 61076-2-104 ### A-coded as per EN 61076-104 ###	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 O0991871 Electrical connection 2, function Electrical connection 2, connection type Cable Electrical connection 2, connection technology Open end Electrical connection 2, number of pins/wires 3 Electrical connection 2, occupied pins/wir	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, connection type Electrical connection 2, connection type Electrical connection 2, connection technology Open end Electrical connection 2, number of pins/wires 3 Electrical connection 2, occupied pins/wires 3 Electrical connection 2, occupied pins/wires 3 BUC operating voltage range OV 60 V Operating voltage range AC OV 60 V Current rating at 40°C Surge resistance 1.5 kV Cable length Cable length Cable characteristic Standard Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation Bending radius, flexible cable installation 2.8 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, type of mounting Electrical connection for input 1, connection pattern O0991871 Electrical connection 2, function Electrical connection 2, connection type Cable Electrical connection 2, connection technology Open end Electrical connection 2, number of pins/wires 3 Electrical connection 2, occupied pins/wires 3 Electrical connection 2, occupied pins/wires 3 DC operating voltage range OV 60 V Operating voltage range AC OV 60 V Current rating at 40°C 3 A Surge resistance Cable length Cable length Cable characteristic Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation 12 mm Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Electrical connection 1, number of pins/wires	3
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 3 Electrical connection 2, occupied pins/wires 3 DC operating voltage range OV 60 V Operating voltage range AC OV 60 V Current rating at 40°C Surge resistance 1.5 kV Cable length Cable characteristic Standard Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation 12 mm Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Electrical connection 1, occupied pins/wires	3
Electrical connection 2, function Electrical connection 2, connection type Electrical connection 2, connection technology Open end Electrical connection 2, number of pins/wires 3 Electrical connection 2, occupied pins/wires 3 DC operating voltage range OV 60 V Operating voltage range AC OV 60 V Current rating at 40°C Surge resistance 1.5 kV Cable length Cable characteristic Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	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 3 Electrical connection 2, occupied pins/wires 3 DC operating voltage range OV 60 V Operating voltage range AC OV 60 V Current rating at 40°C 3 A Surge resistance 1.5 kV Cable length Cable characteristic Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Electrical connection for input 1, connection pattern	00991871
Electrical connection 2, connection technology Electrical connection 2, number of pins/wires 3 Electrical connection 2, occupied pins/wires 3 Electrical connection 2, occupied pins/wires 3 DC operating voltage range 0 V 60 V Operating voltage range AC OV 60 V Current rating at 40°C 3 A Surge resistance 1.5 kV Cable length Cable characteristic Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation 12 mm Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Electrical connection 2, function	Control side
Electrical connection 2, number of pins/wires Electrical connection 2, occupied pins/wires DC operating voltage range OV 60 V Operating voltage range AC OV 60 V Current rating at 40°C Surge resistance 1.5 kV Cable length 2.5 m Cable characteristic Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation 2a mm Cable diameter 3.8 mm 4.0.1 mm	Electrical connection 2, connection type	Cable
Electrical connection 2, occupied pins/wires DC operating voltage range OV 60 V Operating voltage range AC OV 60 V Current rating at 40°C Surge resistance 1.5 kV Cable length 2.5 m Cable characteristic Standard Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation 12 mm Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm 4.0.1 mm	Electrical connection 2, connection technology	Open end
DC operating voltage range OV 60 V Operating voltage range AC OV 60 V Current rating at 40°C 3 A Surge resistance 1.5 kV Cable length Cable characteristic Standard Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Electrical connection 2, number of pins/wires	3
Operating voltage range AC Current rating at 40°C 3 A Surge resistance 1.5 kV Cable length Cable characteristic Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Electrical connection 2, occupied pins/wires	3
Current rating at 40°C Surge resistance 1.5 kV Cable length 2.5 m Cable characteristic Standard Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation 12 mm Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	DC operating voltage range	0 V 60 V
Surge resistance 1.5 kV Cable length 2.5 m Cable characteristic Standard Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation 12 mm Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Operating voltage range AC	0 V 60 V
Cable length Cable characteristic Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Current rating at 40°C	3 A
Cable characteristic Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm Bending radius, fixed cable installation Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Surge resistance	1.5 kV
Connector cable test conditions Flexural strength: as per Festo standard Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm 12 mm Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Cable length	2.5 m
Test conditions on request Cable chain: 5 million cycles, bending radius 75 mm 12 mm Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Cable characteristic	Standard
Bending radius, flexible cable installation 39 mm Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Connector cable test conditions	Test conditions on request
Cable diameter 3.8 mm Cable diameter tolerance ± 0.1 mm	Bending radius, fixed cable installation	12 mm
Cable diameter tolerance ± 0.1 mm	Bending radius, flexible cable installation	39 mm
	Cable diameter	3.8 mm
Cable design 3 x 0.25 mm ²	Cable diameter tolerance	± 0.1 mm
	Cable design	3 x 0.25 mm ²

Feature	Value
Nominal conductor cross section	0.25 mm ²
Degree of protection	IP65 IP68 IP69K
Note on degree of protection	In mounted state
Special features	Oil-resistant
Ambient temperature	-25 °C 70 °C
Ambient temperature with flexible cable installation	-5 °C 70 °C
CE marking (see declaration of conformity)	As per EU low voltage directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for electrical equipment To UK RoHS instructions
LABS (PWIS) conformity	VDMA24364-B2-L
Note on materials	RoHS-compliant Halogen-free Free of phosphoric acid ester
Contamination level	3
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Material of cable sheath	TPE-U(PUR)
Color cable sheath	Gray
Housing material	TPE-U(PUR)
Housing colour	Black
Material of screw-type lock	Brass, nickel-plated
Seals material	NBR
Material of pin contacts	Copper alloy, gold-plated
Insulating sheath material	PP