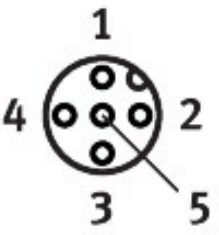
Connecting cable
NEBA-M12W5-U-5-N-LE5

Part number: 8078252





Data sheet

Feature	Value
Conforms to standard	EN 61076-2-101 EN 61984
Approval	c UL us - Listed (Oil)
Intended use	The connecting cable connects field devices (sensors, actuators) with controllers.
Explosion protection	The information in the certificate must be observed! Zone 2 (ATEX) Zone 22 (ATEX)
Certificate issuing authority	UL E253748
Cable designation	Without inscription label holder
Frequency of connection	100
Product weight	143 g
Instructions on use	Meets the requirements of IEC 61010-1 and 61010-2-202, in particular for electrically operated valves from Festo. Only energy-limited circuits with a maximum current of 4 A at a max. open circuit voltage of 30 V DC are permissible for supplying electrically actuated valves from Festo.
Electrical connection 1, function	Field device side
Electrical connection 1, design	Round
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Angled
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	5
Electrical connection 1, used connections/cores	5
Electrical connection 1, type of mounting	Screw-type lock with 13 mm hexagon and longitudinal knurl Rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable/non-rotatable screw-type lock
Electrical connection 1, terminal allocation	Pin 1 = BN Pin 2 = WH Pin 3 = BU Pin 4 = BK Pin 5 = GY

Feature	Value
Electrical connection 1, display	None
Electrical connection 2, function	Control side
Electrical connection 2, connection type	Cable
Electrical connection 2, connector system	Open end
Electrical connection 2, number of connections/cores	5
Electrical connection 2, used connections/cores	5
Electrical connection 2, terminal allocation	Pin 1 = BN Pin 2 = WH Pin 3 = BU Pin 4 = BK Pin 5 = GY
Electrical connection 2, display	None
Operational voltage range DC	0 V...60 V
Operational voltage range AC	0 V...48 V
Current rating at 40° C	4 A
Immunity to surge	1.5 kV
Cable length	5 m
Cable characteristic	Suitable for energy chains/robot applications Abrasion-resistant Low adhesion Flame-retardant and self-extinguishing
Test conditions cable	Test conditions on request Torsional strength: > 300,000 cycles, ±270°/0.1 m Flexural strength: >50000 cycles, bending radius 5 mm Energy chain: > 5 million cycles, bending radius 28 mm
Notes on test conditions cable	Tested at 23°C
Bending radius, fixed cable	14 mm
Cable diameter	4.5 mm
Cable structure	5 x 0.25 mm²
Nominal cross section conductor	0.25 mm²
Wire ends	Stripped Cut off bluntly
Degree of protection	IP65 IP68 IP69K
Special characteristics	UV-resistant Hydrolysis-resistant Resistant to cooling lubricants Resistant to microbes Oil-resistant Ozone-resistant
Outdoor applications	Application areas with direct exposure to outdoor climatic influences Class D1 based on IEC 60654-1
Ambient temperature	-40 °C...85 °C
Note on ambient temperature	-40 - 50°C for UL applications
Ambient temperature with moving cable	-20 °C...85 °C
Note on the ambient temperature with flexible cable installation	-20 - 50°C for UL applications
Storage temperature	-25 °C...55 °C
Note on storage temperature	Temporarily during transport in packaging -40 ... 85 °C
Relative air humidity	Max. 93% at 40 °C
Nominal altitude of use	<= 2000 m NHN
Overvoltage category	II
CE mark (see declaration of conformity)	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1
Note on materials	CFC-free RoHS compliant

Feature	Value
	Cadmium-free Free of halogen Free of phosphoric acid ester
Pollution degree	3
Corrosion resistance class CRC	1 - Low corrosion stress
Material cable sheath	TPE-U(PUR)
Cable sheath colour	Grey
Material housing	TPE-U(PUR)
Housing colour	Black
Material screw-type lock	Nickel-plated die-cast zinc
Material seals	Fluoro rubber
Material electrical contact	Gold-plated copper alloy
Material insulating sheath	PP