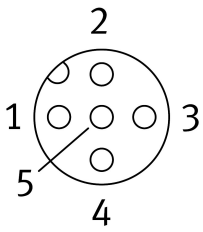
Connecting cable
NEBU-M12G5-E-5-Q8N-M12G5

Part number: 574321





Data sheet

Feature	Value
Conforms to standard	EN 60947-5-2 EN 61076-2-101 IEC 61010-1
Cable designation	Without label holder
Contact durability	100
Product weight	434 g
Electrical connection 1, function	Field device side
Electrical connection 1, design	Round
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Straight
Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection 1, number of pins/wires	5
Electrical connection 1, occupied pins/wires	5
Electrical connection 1, type of mounting	Screw-type lock with hexagon AF13 and vertical knurling Rotatable 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
Electrical connection 2, function	Control side
Electrical connection 2, design	Round
Electrical connection 2, connection type	Plug
Electrical connection 2, cable outlet	Straight
Electrical connection 2, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection 2, number of pins/wires	5
Electrical connection 2, occupied pins/wires	5
Electrical connection 2, type of mounting	Screw-type lock with hexagon AF 13 and longitudinal knurl Rotatable Compatible with rotatable/non-rotatable screw-type lock
Electrical connection 2, terminal allocation	Pin 1 = BN Pin 2 = WH

Feature	Value
	Pin 3 = BU Pin 4 = BK Pin 5 = GY
DC operating voltage range	0 V...60 V
Operating voltage range AC	0 V...60 V
Current rating at 40° C	4 A
Note on acceptable current load at 40°C	Observe derating
Surge resistance	1.5 kV
Protective earth connection	Not available
Shield	No
Conductor resistance	79.9 Ohm/km
Cable length	5 m
Cable characteristic	Suitable for energy chains
Connector cable test conditions	Flexural strength: as per Festo standard Test conditions on request Flexural strength: > 50000 cycles, bending radius 5 mm Energy chain: > 5 million cycles, bending radius 75 mm Acceleration: 10 m/s² Speed: 3 m/s Travel distance: 1.8 m
Bending radius, fixed cable installation	21 mm
Bending radius, flexible cable installation	71 mm
Cable diameter	7 mm
Cable diameter tolerance	± 0.1 mm
Cable design	5 x 1 mm²
Nominal conductor cross section	1 mm²
Degree of protection	IP65 IP68 IP69K
Note on degree of protection	In mounted state
Special features	Oil-resistant
Vibration resistance	Test conditions on request
Shock resistance	Test conditions on request
Ambient temperature	-25 °C...80 °C
Ambient temperature with flexible cable installation	-5 °C...80 °C
Storage temperature	-25 °C...80 °C
Relative air humidity	Max. 93% at 40°C
Nominal altitude of use above sea level	<= 2000 m NHN
Overvoltage category	II
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 RoHS instructions To UK instructions for electrical equipment
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)
Note on materials	RoHS compliant Halogen-free Free of copper Contains no phosphoric acid esters
Contamination level	3
Note on the contamination level	In mounted state
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

Feature	Value
Seals material	NBR
Material of pin contacts	Gold-plated copper alloy
Insulating sheath material	PP