

# Connecting cable

## NEBC-D12G4-ES-1-S-R3G4-ET

Part number: 8040451



 General operating condition

## Data sheet

Feature	Value
Cable designation	With label holder
Contact durability	50
Product weight	93.5 g
Electrical connection 1, function	Field device end
Electrical connection 1, design	Round
Electrical connection 1, connection type	Plug
Electrical connection 1, cable outlet	Straight
Electrical connection 1, connection technology	M12x1, D-coded as per EN 61076-2-101
Electrical connection 1, number of pins/wires	4
Electrical connection 1, occupied pins/wires	4
Electrical connection 1, type of mounting	Screw-type lock with hexagon AF13 and vertical knurling
Electrical connection for input 1, connection pattern	00995612
Electrical connection 2, function	Control side
Electrical connection 2, design	Rectangular
Electrical connection 2, connection type	Plug
Electrical connection 2, cable outlet	Straight
Electrical connection 2, connection technology	RJ45 as per IEC 60603-7-3
Electrical connection 2, number of pins/wires	8
Electrical connection 2, occupied pins/wires	4
Electrical connection 2, type of mounting	Snap-locking
Electrical connection 2, connection pattern	00995653
DC operating voltage range	0 V ... 30 V
Current rating at 40° C	1.3 A
Surge resistance	0.8 kV
Note on surge resistance	A leakage flow of up to 20 mA is permissible due to shielding
Shield	yes
Transmission characteristics	In accordance with category 5, EN 50173, class D According to category 5, ISO/IEC 11801, class D
Ethernet cable specification	Typ: CAT.5
Cable length	1 m
Cable characteristic	Suitable for energy chains
Connector cable test conditions	Flexural strength: as per Festo standard Test conditions on request Energy chain: > 2 million cycles, bending radius 100 mm
Bending radius, fixed cable installation	≥40 mm
Bending radius, flexible cable installation	≥100 mm

Feature	Value
Cable diameter	6.7 mm
Cable diameter tolerance	± 0.3 mm
Cable design	4 x 0.34 mm <sup>2</sup>
Nominal conductor cross section	0.34 mm <sup>2</sup>
Nominal conductor cross section	AWG22
Degree of protection	IP65 IP67
Special features	Oil-resistant
Ambient temperature	-25 °C ... 80 °C
Ambient temperature with flexible cable installation	-20 °C ... 60 °C
Storage temperature	-25 °C ... 80 °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)	1 - Low corrosion stress
Material of cable sheath	TPE-U(PUR)
Color cable sheath	Green
Housing material	Brass, nickel-plated PA TPE-U(PUR)
Housing colour	Black
Material of screw-type lock	Die-cast zinc, nickel-plated
Material of pin contacts	Brass Gold-plated
Insulating sheath material	PE
Threaded sleeve material	Die-cast zinc