

# Connecting cable

## NEBC-D12G4-ES-10-S-D12G4-ET

FESTO

Part number: 8040450



 General operating condition

## Data sheet

Feature	Value
Cable designation	With label holder
Frequency of connection	50
Product weight	680 g
Electrical connection 1, function	Field device side
Electrical connection 1, design	Round
Electrical connection 1, connection type	Plugs
Electrical connection 1, cable outlet	Straight
Electrical connection 1, connector system	M12x1, D-coded to EN 61076-2-101
Electrical connection 1, number of connections/cores	4
Electrical connection 1, used connections/cores	4
Electrical connection 1, type of mounting	Screw-type lock with 13 mm hexagon and longitudinal knurl
Electrical connection 1, connection pattern	00995612
Electrical connection 2, function	Controller side
Electrical connection 2, design	Round
Electrical connection 2, connection type	Plugs
Electrical connection 2, cable outlet	Straight
Electrical connection 2, connector system	M12x1, D-coded to EN 61076-2-101
Electrical connection 2, number of connections/cores	4
Electrical connection 2, used connections/cores	4
electrical connection 2, type of mounting	Screw-type lock with 13 mm hexagon and longitudinal knurl
Electrical connection 2, connection pattern	00995612
Operational voltage range DC	0 V ... 30 V
Current rating at 40° C	4 A
Immunity to surge	0.8 kV
Note on immunity to surge	A leakage current of up to 20 mA is permissible due to shielding.
Shielding	yes
Transmission characteristics	In accordance with category 5, EN 50173, class D In accordance with category 5, ISO/IEC 11801, class D
Specification Ethernet cable	Type: CAT.5
Cable length	10 m
Cable characteristic	Suitable for energy chains
Test conditions cable	Bending strength: to Festo standard Test conditions on request Energy chain: > 2 million cycles, bending radius 100 mm
Bending radius, fixed cable	≥40 mm
Bending radius, moving cable	≥100 mm

Feature	Value
Cable diameter	6.7 mm
Cable diameter tolerance	± 0.3 mm
Cable structure	4 x 0.34 mm <sup>2</sup>
Nominal cross section conductor	0.34 mm <sup>2</sup>
Conductor nominal cross section	AWG22
Degree of protection	IP65 IP67
Special characteristics	Oil resistant
Ambient temperature	-25 °C ... 80 °C
Ambient temperature with moving cable	-20 °C ... 60 °C
Storage temperature	-25 °C ... 80 °C
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
Note on materials	RoHS-compliant
Pollution degree	3
Corrosion resistance class CRC	1 - Low corrosion stress
Material cable sheath	TPE-U(PUR)
Cable sheath colour	Green
Material housing	TPE-U(PUR)
Housing colour	Black
Material screw-type lock	Die-cast zinc, nickel-plated
Material electrical contact	Brass Bronze
Material insulating sheath	PE
Material threaded sleeve	Die-cast zinc