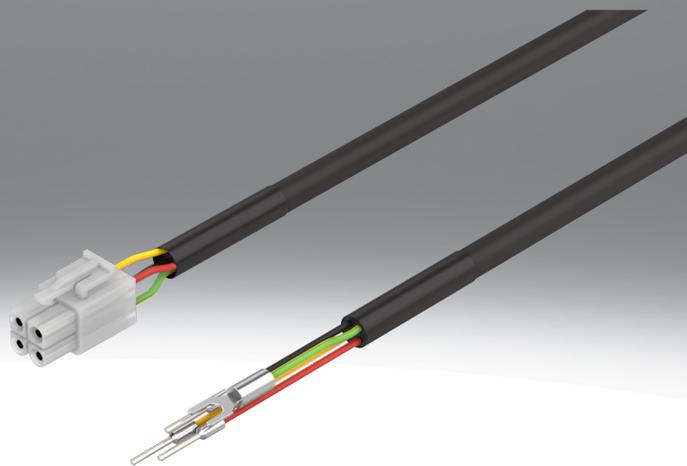


Connecting cable NEBM

FESTO



Type code

001	Series	
NEBM	Connecting cable	
002	Connection technology left, field device side	
H6	Socket connection pattern H6, coded for motor	
H7	Socket connection pattern H7, coded for motor brake	
RE	Socket connection pattern RE	
003	Cable outlet left	
G	Straight	
004	Number of pins/wires on the left	
2	2	
4	4	
6	6	
005	Cable characteristic	
K	Standard	
006	Cable length	
2.5	2.5 m	
5	5 m	
7.5	7.5 m	
10	10 m	

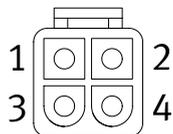
007	Wire cross section [mm²]	
Q14	0.51	
Q13	0.79	
008	Cable identification	
N	Without label holder	
009	Connection technology right, controller side	
LE	Open end	
RE	Socket connection pattern RE	
010	Cable outlet right	
	None	
G	Straight	
011	Number of pins/wires on the right	
2	2	
4	4	
6	6	

Datasheet

General technical data – Plug pattern H6

Line function	Power cable
Cable designation	Without inscription label holder

Technical data – Electrical connection 1, plug pattern H6



Electrical connection 1, connector system	Connection pattern H6, coded for motor
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Angular
Electrical connection 1, number of connections/cores	4
Electrical connection 1, used connections/cores	4

Technical data – Electrical connection 2, plug pattern H6

Electrical connection 2, function	Controller side
Electrical connection 2, connection type	Cable
Electrical connection 2, connector system	Open end
Wire ends	Wire ferrule
Electrical connection 2, number of connections/cores	4
Electrical connection 2, used connections/cores	4

Technical data – Electrical, plug pattern H6

Operational voltage range DC	0 V, 300 V
Operational voltage range AC	0 V, 300 V
Immunity to surge	2 kV
Current rating at 40° C	9.5 A
Pollution degree	3

Technical data – Cable, plug pattern H6

Cable diameter	7.4 mm
Cable characteristic	Standard
Bending radius, fixed cable	≥74 mm
Bending radius, moving cable	≥111 mm
Test conditions cable	Test conditions on request
Cable structure	4 x 0.79 mm ²
Nominal cross section conductor	0.79 mm ²
Conductor nominal cross section	AWG18

Datasheet

Materials – Plug pattern H6

Material housing	PA
Housing colour	White
Material cable sheath	TPE-E
Cable sheath colour	Black
Material insulating sheath	TPE-E
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

Operating and environmental conditions – Plug pattern H6

Ambient temperature	-25 ... 90°C
Ambient temperature with moving cable	-25 ... 90°C
Corrosion resistance class CRC ¹⁾	0 - No corrosion stress
CE mark (see declaration of conformity) ²⁾	To EU Low Voltage Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions To UK regulations for electrical equipment
Degree of protection	IP20
Note on degree of protection	In assembled state

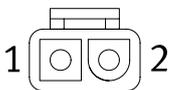
1) More information www.festo.com/x/topic/crc

2) More information www.festo.com/catalogue/... Support/Downloads.

General technical data – Plug pattern H7

Line function	Brake cable
Cable designation	Without inscription label holder

Technical data – Electrical connection 1, plug pattern H7



Electrical connection 1, connector system	Connection pattern H7, coded for motor brake
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Angular
Electrical connection 1, number of connections/cores	2
Electrical connection 1, used connections/cores	2

Technical data – Electrical connection 2, plug pattern H7

Electrical connection 2, function	Controller side
Electrical connection 2, connection type	Cable
Electrical connection 2, connector system	Open end
Wire ends	Wire ferrule
Electrical connection 2, number of connections/cores	2
Electrical connection 2, used connections/cores	2

Datasheet

Technical data – Electrical, plug pattern H7

Operational voltage range DC	0 V, 30 V
Operational voltage range AC	0 V, 30 V
Immunity to surge	2 kV
Current rating at 40° C	5 A
Pollution degree	3

Technical data – Cable, plug pattern H7

Cable diameter	5.4 mm
Cable characteristic	Standard
Bending radius, fixed cable	≥27 mm
Bending radius, moving cable	≥81 mm
Test conditions cable	Test conditions on request
Cable structure	2 x 0.51 mm ²
Nominal cross section conductor	0.51 mm ²
Conductor nominal cross section	AWG20

Materials – Plug pattern H7

Material housing	PA
Housing colour	White
Material cable sheath	PVC
Cable sheath colour	Black
Material insulating sheath	PVC
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

Operating and environmental conditions – Plug pattern H7

Ambient temperature	-40 ... 80°C
Ambient temperature with moving cable	-10 ... 80°C
Corrosion resistance class CRC ¹⁾	0 - No corrosion stress
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Degree of protection	IP20
Note on degree of protection	In assembled state

1) More information www.festo.com/x/topic/crc

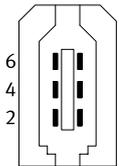
2) More information www.festo.com/catalogue/.../Support/Downloads.

General technical data – Plug pattern RE

Line function	Encoder cable
Cable designation	Without inscription label holder

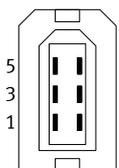
Datasheet

Technical data – Electrical connection 1, plug pattern RE



Electrical connection 1, connector system	Connection pattern RE
Electrical connection 1, function	Field device side
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Angular
Electrical connection 1, number of connections/cores	6
Electrical connection 1, used connections/cores	6

Technical data – Electrical connection 2, plug pattern RE



Electrical connection 2, function	Controller side
Electrical connection 2, connection type	Plugs
Electrical connection 2, cable outlet	Straight
Electrical connection 2, design	Angular
Electrical connection 2, connector system	Connection pattern RE
Electrical connection 2, number of connections/cores	6
Electrical connection 2, used connections/cores	6

Technical data – Electrical, plug pattern RE

Operational voltage range DC	0 V, 30 V
Operational voltage range AC	0 V, 30 V
Immunity to surge	2 kV
Current rating at 40° C	1.6 A
Pollution degree	3

Datasheet

Technical data – Cable, plug pattern RE

Cable diameter	8.3 mm
Cable characteristic	Standard
Bending radius, fixed cable	≥83 mm
Bending radius, moving cable	≥100 mm
Test conditions cable	Test conditions on request
Cable structure	2 x 0.51 mm ² + 4 x 0.205 mm ²
Nominal cross section conductor	0.205 mm ² 0.51 mm ²
Conductor nominal cross section	AWG20 AWG24

Materials – Plug pattern RE

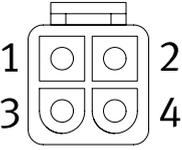
Material housing	PVC
Housing colour	grey
Material cable sheath	PVC
Cable sheath colour	Black
Material insulating sheath	PVC
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

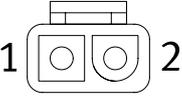
Operating and environmental conditions – Connection pattern RE

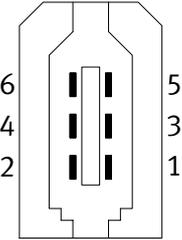
Ambient temperature	-40 ... 80°C
Ambient temperature with moving cable	-10 ... 80°C
Corrosion resistance class CRC ¹⁾	0 - No corrosion stress
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Degree of protection	IP20
Note on degree of protection	In assembled state

1) More information www.festo.com/x/topic/crc2) More information www.festo.com/catalogue/... Support/Downloads.

Ordering data

Connection pattern H6						
	Electrical connection 1, connection type	Electrical connection 2, connection type	Electrical connection 2, connector system	Cable length	Part no.	Type
	Socket	Cable	Open end	2.5 m	5219193	NEBM-H6G4-K-2.5-Q13N-LE4
				5 m	5219194	NEBM-H6G4-K-5-Q13N-LE4
				7.5 m	5219195	NEBM-H6G4-K-7.5-Q13N-LE4
				10 m	5219196	NEBM-H6G4-K-10-Q13N-LE4

Connection pattern H7						
	Electrical connection 1, connection type	Electrical connection 2, connection type	Electrical connection 2, connector system	Cable length	Part no.	Type
	Socket	Cable	Open end	2.5 m	5219201	NEBM-H7G2-K-2.5-Q14N-LE2
				5 m	5219202	NEBM-H7G2-K-5-Q14N-LE2
				7.5 m	5219203	NEBM-H7G2-K-7.5-Q14N-LE2
				10 m	5219204	NEBM-H7G2-K-10-Q14N-LE2

Connection pattern RE						
	Electrical connection 1, connection type	Electrical connection 2, connection type	Electrical connection 2, connector system	Cable length	Part no.	Type
	Socket	Plugs	Connection pattern RE	2.5 m	5219209	NEBM-REG6-K-2.5-Q14N-REG6
				5 m	5219210	NEBM-REG6-K-5-Q14N-REG6
				7.5 m	5219211	NEBM-REG6-K-7.5-Q14N-REG6
				10 m	5219212	NEBM-REG6-K-10-Q14N-REG6