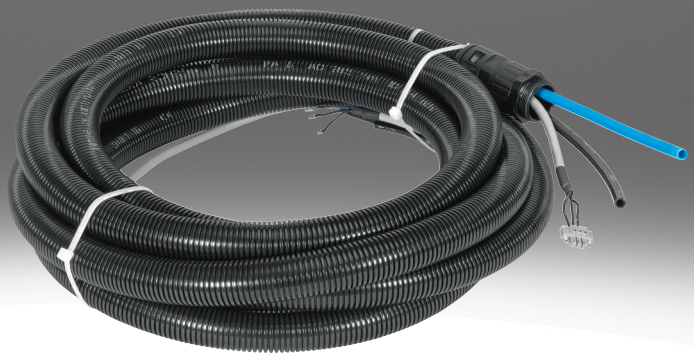
Connecting cable NHSB



Characteristics

At a glance

- Connecting cables of type NHSB-... are designed for use with the pneumatic linear actuators of type DFPI-...-P-A and type DFPI-...E-P-G2 determined.
- The flange receptacles are prepared to accommodate the electrical cable and the pneumatic tubing. The electrical cable is passed through the flange receptacle towards the DFPI and the pneumatic tubing is inserted into the QS fittings located in the flange receptacles.
- The version with retaining screws is used for the electrical plug connector to ensure secure mechanical fitting.

Attention: Lubricated operation is not permitted in potentially explosive atmospheres

Type code

001	Series	
NHSB	Connecting cable	

002	Type of protective tubing	
A1	Standard with fittings and lock nuts	

003	Protective tube length [m]	
0.6	0.6	
5	5	
10	10	
15	15	

004	Connection technology left, field device side	
BL	Socket strip	

005	Cable outlet left	
G	Straight	

006	Number of pins/wires on the left	
3	3	
5	5	

007	Connection technology right, controller side	
LE	Open end	

008	Number of pins/wires on the right	
3	3	
5	5	

009	Pipe/tubing material	
PU	Polyurethane	

010	Tube size [mm]	
8	8	

011	Number of tubes	
2X	2 units	

012	Tube colour	
BB	Blue/black	

Datasheet

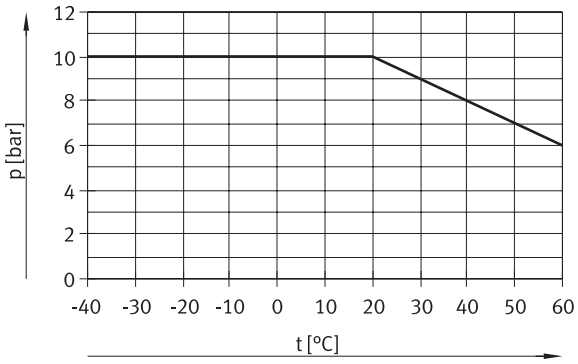
General technical data				
Protective conduit length	0.6 m	5 m	10 m	15 m
Mounting position	optional			
Outdoor applications	Weather-protected application areas Class C1 based on IEC 60654-1			
Cable structure	3 x 0.75 mm²	3 x 0.75 mm², 5 x 0.75 mm²		
Product weight	280 g	1,250 g	2,500 g	3,750 g

Operating and environmental conditions	
Operational voltage range DC	0 ... 30 V
Relative air humidity	5 - 100%, Condensing
Degree of protection	IP65, IP67, IP69K, NEMA 4
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Ambient temperature	-20 ... 60°C
Ambient temperature with moving cable	-5 ... 60°C
Note on operating and pilot medium	Lubricated operation possible
Min. cable bending radius	100 mm
Electrical connection 1	Straight plug connector, 3-pin, Straight plug connector, 5-pin
Electrical connection 2	Open end, 3-wire, Open end, 5-wire
Pneumatic connection	For tubing O.D. 8 mm, For tubing outside diameter of 10 mm
LABS (PWIS) conformity	VDMA24364 zone III

Materials	
Note on materials	RoHS-compliant
Material conduit	PA
Material protective conduit fitting	PA
Material cable sheath	PVC
Material seals	TPE

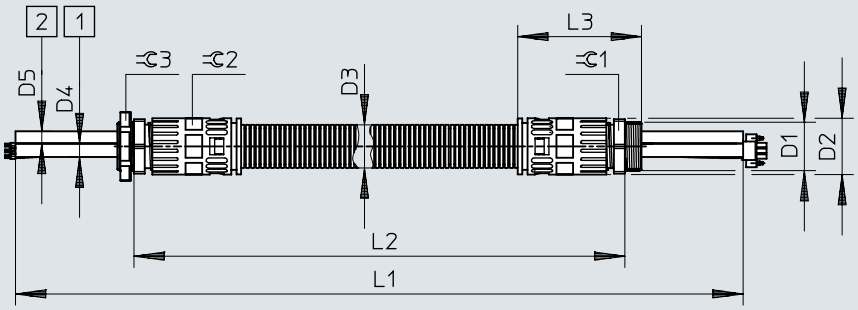
Operating pressure [bar] as a function of operating temperature [°C]

NHSB-A1-... (Betriebsdruck in bar)



Dimensions

Dimensions – Open end, 3-core Download CAD data www.festo.com

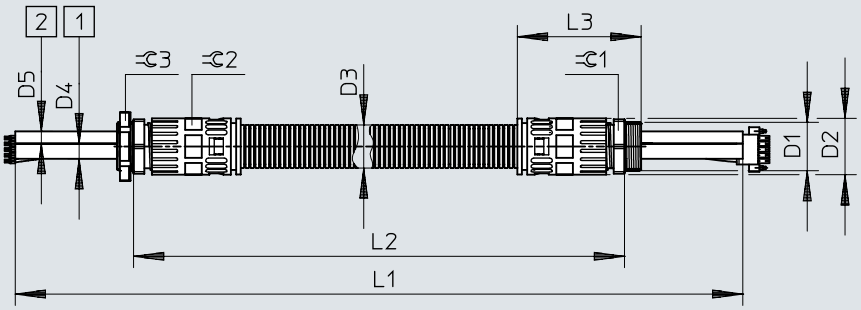


[1] Tubing for exhaust
[2] Tubing for pressurisation

	D1	D2 ø	D3 ø	D4 ø	D5 ø	L1 ±25	L2 ±25	L3	1	2	3
NHSB-A1-0.6-BLG3-LE3-PU8-2xBB	M32x1,5	37	28,5	8	8	1400	600	82	36	34	41
NHSB-A1-5-BLG3-LE3-PU8-2xBB						6100	5000				
NHSB-A1-10-BLG3-LE3-PU8-2xBB						11100	10000				
NHSB-A1-15-BLG3-LE3-PU8-2xBB						16100	15000				

Dimensions

Dimensions – Open end, 5-core Download CAD data www.festo.com



[1] Tubing for exhaust
[2] Tubing for pressurisation

	D1	D2 Ø	D3 Ø	D4 Ø	D5 Ø	L1 ±25	L2 ±25	L3	⊂ 1	⊂ 2	⊂ 3
NHSB-A1-5-BLG5-LE5-PU8-2xBB	M32x1,5	37	28,5	10	8	6100	5000	82	36	34	41
NHSB-A1-10-BLG5-LE5-PU8-2xBB						11100	10000				
NHSB-A1-15-BLG5-LE5-PU8-2xBB						16100	15000				

Ordering data

Connecting cable

	Electrical connection 1	Electrical connection 2	Protective conduit length	Part no.	Type
	Straight plug connector, 3-pin	Open end, 3-wire	0.6 m	**3673475**	**NHSB-A1-0,6-BLG3-LE3-PU8-2XBB**
			5 m	**1686608**	**NHSB-A1-5-BLG3-LE3-PU8-2XBB**
			10 m	**1686609**	**NHSB-A1-10-BLG3-LE3-PU8-2XBB**
			15 m	**1686610**	**NHSB-A1-15-BLG3-LE3-PU8-2XBB**
	Straight plug connector, 5-pin	Open end, 5-wire	5 m	**1585793**	**NHSB-A1-5-BLG5-LE5-PU8-2XBB**
			10 m	**1585794**	**NHSB-A1-10-BLG5-LE5-PU8-2XBB**
			15 m	**1585795**	**NHSB-A1-15-BLG5-LE5-PU8-2XBB**