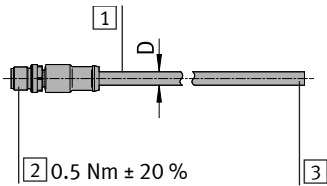


**Connecting cable
 NEBS-SM12G12-E...-N-LE12**

1. Parts list

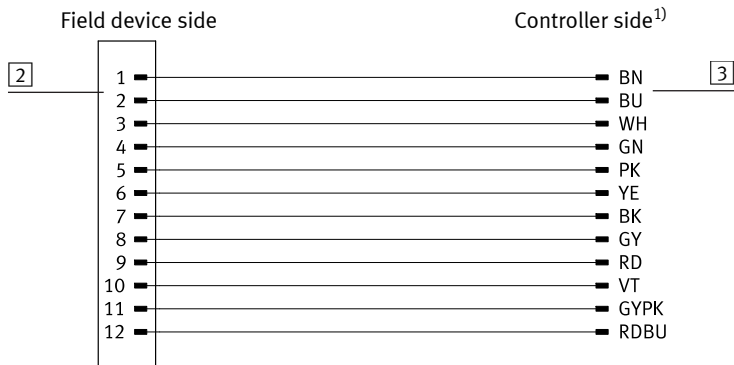
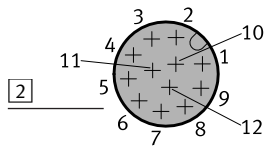


- 1 Cable (1x)
- Field device side:
- 2 M12 (12-pin) Plug (1x)
- Controller side:
- 3 Wire end¹⁾ (12x)
 Cut off bluntly²⁾

2. Intended use

Connecting cable NEBS-SM12G12-E...-N-LE12:
 M12 round plug connector for connection of sensors.

3. Pin allocation

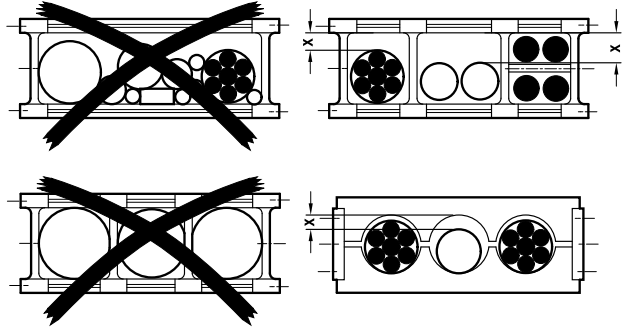


4. Technical data

NEBS-SM12G12-E...-N-LE12		
Cable composition	[mm ²]	12 x 0.25
Cable diameter	D [mm]	6.5
Min. cable bending radius	R [mm]	
With fixed cable installation		32
With flexible cable installation		65
Mounting space	A [mm]	130
Operating voltage range AC/DC	U _B [V]	0 ... 30
Acceptable current load at 40 °C	[A]	1.5
Degree of protection in mounted status		IP67
Ambient temperature	[°C]	
With fixed cable installation		-5 ... +70
With flexible cable installation		-5 ... +70
Material		
Cable sheath		TPE-U(PUR)
Note on materials		RoHS-compliant

5. Mounting cables in the energy chain

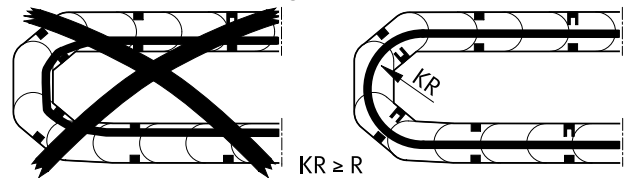
1. Lay the chain out lengthwise.
2. Place the cables in the chain, making sure they are not twisted.
3. Separate cables from each other through separator/drill holes.
4. Do not connect cables together.
5. Comply with space X. X > 10 % of the cable diameter D.
 With vertically hanging chain, increase the space X.



6. Align chain in the operating position.

Check:

- The bending radius of the cables is at least R
- Cables are freely movable in the bending radius KR of the energy chain
- Cables are not forced through the chain.



7. Mount chain (→ corresponding assembly instructions).

8. Fasten cables:

- For short energy chains, fasten at both ends of the chain (→ Fig. 1)
- For long, sliding energy chains, fasten only at the moment compensator (→ Fig. 2).

9. Do not move cables up to the fastening point.

Check:

- The distance between the end point of the bending movement and the attachment of the cable is at least equal to mounting space A.

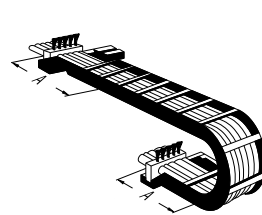


Fig. 1

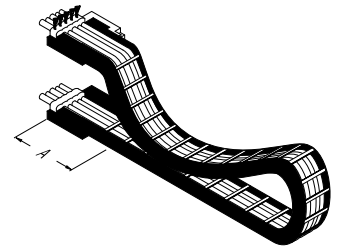


Fig. 2

→ **Note**

Chain break.
 Damage to cables.
 • Replace cables.

→ **Note**

Malfunction and material damage due to vertically hanging cables.
 The cables stretch.
 • Regularly check the length of the cables.
 • Readjust the cables if required.

¹⁾ Colour code in accordance with IEC 60757:1983-01

²⁾ Cable ends must be shortened and pre-assembled as needed.