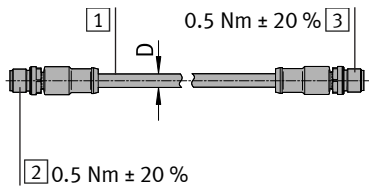


**Connecting cable  
 NEBS-SM12G12-E...-N-M12G12**

**1. Parts list**

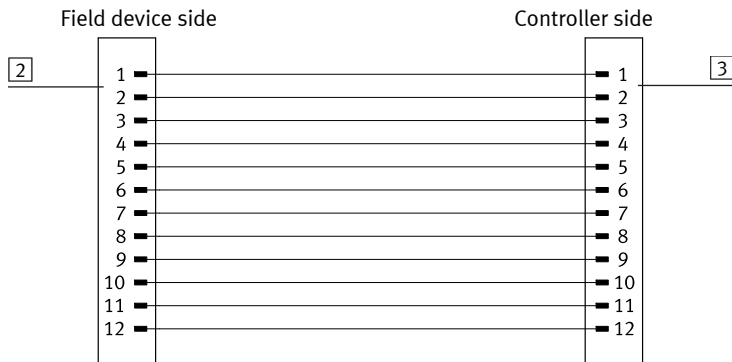
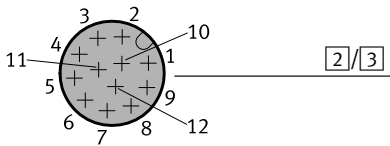


- 1 Cable (1x)
- Field device side:
- 2 M12 (12-pin) Plug (1x)
- Controller side:
- 3 M12 (12-pin) Plug (1x)

**2. Intended use**

Connecting cable NEBS-SM12G12-E...-N-M12G12:  
 M12 round plug connector for connection of sensors.

**3. Pin allocation**



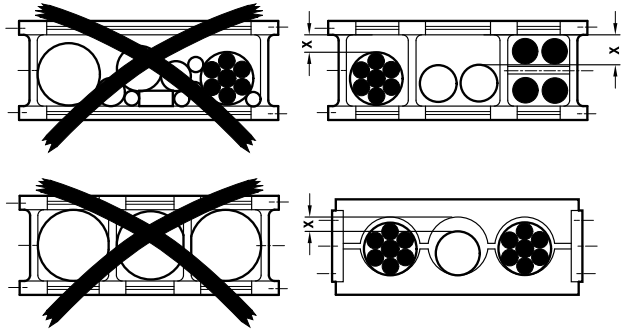
**4. Technical data**

**NEBS-SM12G12-E...-N-M12G12**

Cable composition	[mm <sup>2</sup> ]	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 <sub>B</sub> [V]	0 ... 30
Acceptable current load at 40 °C	[A]	1.5
Protection class 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

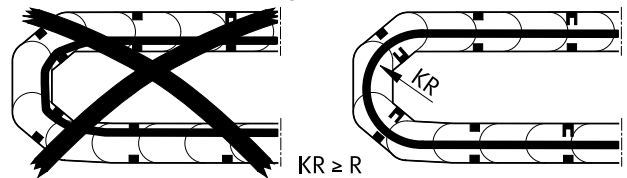
**5. Mounting cables in the energy chain**

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.

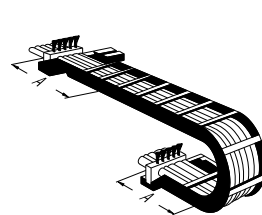


Fig. 1

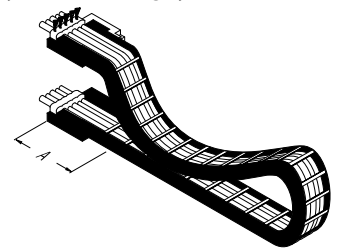


Fig. 2

→ **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.