Hybrid Straight-through Joint (three- to single-core) Type **CHM3-1**

For polymeric cables up to 36 kV

Application

Hybrid joints Type CHM3-1 are suitable to connect polymeric medium voltage three-core cables with single-core cables. This enables to join cables with different conductor materials, cable insulations (PE, XLPE, EPR) as well as different outer semi-conducting layers and screening.

Design

A three- to single-core hybrid joint consists of:

- Slip-on silicone stress control elements
- Blue stress relieve filling tapes
- Thick-wall heat-shrink insulation tubes
- Copper screen transfer
- Heat-shrink outer protecting tube (resin outer protection on request)

Features

- Safe stress control
- Easy to handle
- Wide cross-section range
- Suitable for all connectors
- Unlimited shelf life
- Immediately operational

Delivery

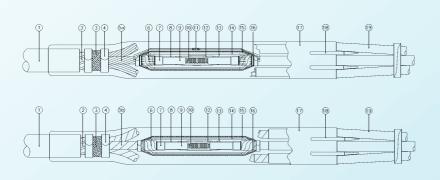
Standard packing unit: one piece for three phases without connectors.



Ordering Details	Туре	Cross Section ¹⁾ mm ²	Min. Ø ²⁾ over insulation mm	Max. Ø of connector mm	Max. length of connector mm
	3 6/6 (7 2) kV	- 3.8/6.6 (7.2) kV			
	CHM3-1 6/1	50 – 120	13.2	25	110
	CHM3-1 6/2	150 – 185	18.2	35	140
	CHM3-1 6/3	240 – 300	20.9	40	150
	6/10 (12) kV -	6.35/11 (12) kV			
	CHM3-1 10/0	10 - 25	9.9	18	110
	CHM3-1 10/1	35 – 70	13.2	20	110
	CHM3-1 10/2	95 – 150	18.2	25	140
	CHM3-1 10/3	185 – 300	20.9	35	150
	8.7/15 (17.5) k	χV			
	CHM3-1 15/1	25 – 50	13.2	18	110
	CHM3-1 15/2	<i>7</i> 0 – 150	18.2	25	140
	CHM3-1 15/3	150 – 240	20.9	35	150
	CHM3-1 15/4	300 – 500	28.6	45	220
	12/20 (24) kV	- 12.7/22 (24) kV			
	CHM3-1 20/1	10 – 35	13.2	20	100
	CHM3-1 20/2	50 – 95	18.2	25	110
	CHM3-1 20/3	95 – 185	20.9	30	140
	CHM3-1 20/4	185 – 300	28.6	35	150
	18/30 (36) kV	- 19/33 (36) kV			
	CHM3-1 30/1	35 – 50	20.9	18	110
	CHM3-1 30/2	<i>7</i> 0 – 150	24.2	25	140
	CHM3-1 30/3	185 – 300	28.6	35	150

- 1) Check minimum diameter over conductor insulation.
- 2) Minimum diameter after removal of the outer semi-conducting layer.

Other cross-section ranges on request.



_	
1	Three-core cable
2	Armouring
3	Copper mesh tape
3	Pressure spring or hose clip
4	Pressure spring or hose clip
5a	Wire screen
5b	Tape screen
6	Copper wire screen
7	Outer semiconducting layer
8	Stress control element
9	Conductor insulation
10	Connector
11	Screen-connector
12	Blue filling tape
13	Insulating tube SRMS
14	≥ 20 kV second insulating tube SRMS
15	Dual wall insulating tube SRMSL
16	Copper-screen transfer
1 <i>7</i>	Outer protecting tube
18	Branch-off clips
19	Single-core cable