

# Hybrid Transition Joints

## Type **CHMP(3Pb)3** and **CHMP(3Pb)3-1**

**For three-core single lead-sheathed cables up to 36 kV**

### Application

Hybrid transition joints Type **CHMP(3Pb)3** are used for connecting paper-insulated three-core single lead-sheathed cables with three-core polymeric cables.

Hybrid transition joints Type **CHMP(3Pb)3-1** are used for connecting paper-insulated three-core single lead-sheathed cables with three single-core polymeric cables.

### Design

A transition joint consists of:

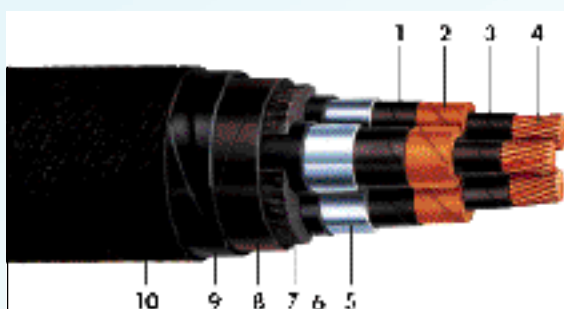
- Transparent oil barrier tubes
- Oil resistant filling tapes
- Spreader cap
- Silicone stress control tubes
- Thick-wall insulating tubes
- Copper screen transfer
- Protecting heat-shrink tube (resin outer protection on request).

### Features

- No use of cable impregnation
- Universally applicable
- Suitable for all conductor materials and connectors
- Easy and quick installation
- Wide cross section range
- Safe stress control
- Immediately operational

### Delivery

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



**Three-core single lead-sheathed cable**

- |    |                              |
|----|------------------------------|
| 1  | Carbon or metallized paper   |
| 2  | Impregnated paper insulation |
| 3  | Impregnated carbon papers    |
| 4  | Conductor                    |
| 5  | Lead alloy sheath            |
| 6  | Impregnated paper            |
| 7  | Filler                       |
| 8  | Compounded synthetic tape    |
| 9  | Steel armour                 |
| 10 | Outer sheath                 |



## Ordering Details

Type	Cross Section <sup>1)</sup> mm <sup>2</sup>	Min. Ø <sup>2)</sup> over insulation mm	Max. Ø of connector mm	Max. length of connector mm
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### CHMP3(3Pb)3 for three-core single lead-sheathed to three-core polymeric cables

#### 6/10 (12) kV – 6.35/11 (12) kV

CHMP(3Pb)3 10/1	35 – 70	13.2	20	110
CHMP(3Pb)3 10/2	95 – 150	18.2	25	140
CHMP(3Pb)3 10/3	185 – 300	20.9	35	150

#### 8.7/15 (17.5) kV

CHMP(3Pb)3 15/1	25 – 50	13.2	18	110
CHMP(3Pb)3 15/2	70 – 150	18.2	25	140
CHMP(3Pb)3 15/3	150 – 240	20.9	35	150

#### 12/20 (24) kV – 12.7/22 (24) kV

CHMP(3Pb)3 20/1	16 – 35	13.2	15	100
CHMP(3Pb)3 20/2	50 – 95	18.2	25	110
CHMP(3Pb)3 20/3	95 – 240	20.9	38	150
CHMP(3Pb)3 20/4	185 – 300	24.2	40	160

#### 18/30 (36) kV – 19/33 (36) kV

CHMP(3Pb)3 30/1	35 – 50	20.9	18	110
CHMP(3Pb)3 30/2	70 – 150	24.2	25	150
CHMP(3Pb)3 30/3	185 – 300	28.6	35	160

### CHMP3(3Pb)3-1 for three-core lead-sheathed to three single-core polymeric cables

#### 6/10 (12) kV – 6.35/11 (12) kV

CHMP(3Pb)3-1 10/1	35 – 70	13.2	20	110
CHMP(3Pb)3-1 10/2	95 – 150	18.2	25	140
CHMP(3Pb)3-1 10/3	185 – 300	20.9	35	150

#### 8.7/15 (17.5) kV

CHMP(3Pb)3-1 15/1	25 – 50	13.2	18	110
CHMP(3Pb)3-1 15/2	70 – 150	18.2	25	140
CHMP(3Pb)3-1 15/3	150 – 240	20.9	35	150

#### 12/20 (24) kV – 12.7/22 (24) kV

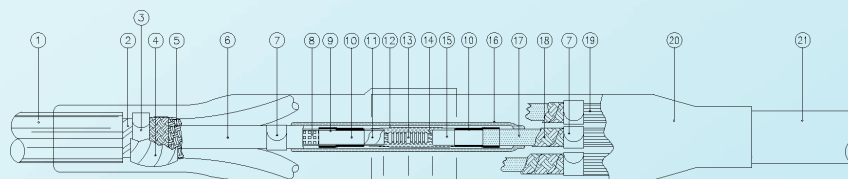
CHMP(3Pb)3-1 20/1	16 – 35	13.2	15	100
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CHMP(3Pb)3-1 20/3	95 – 240	20.9	38	150
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#### 18/30 (36) kV – 19/33 (36) kV

CHMP(3Pb)3-1 30/1	35 – 50	20.9	18	110
CHMP(3Pb)3-1 30/2	70 – 150	24.2	25	150
CHMP(3Pb)3-1 30/3	185 – 300	28.6	35	160

Other cross-section ranges on request.

- 1 Three-core single-lead sheath cable
- 2 Armouring
- 3 Pressure spring
- 4 Sealing tape Type DM2
- 5 Copper braid tape
- 6 Lead sheath
- 7 Pressure spring
- 8 Hoechstædter foil (metallized paper)
- 9 Oil-barrier tube
- 10 Field control element Type FCE
- 11 Core insulation (paper)
- 12 Internal joints Type SRMS
- 13 Connector



- |                                 |                               |
|---------------------------------|-------------------------------|
| 14 Blue filling tape            | 18 Copper mesh tape           |
| 15 Core insulation              | 19 Screen wires               |
| 16 Double wall joint Type SRMSL | 20 Outer joint                |
| 17 Outer conducting layer       | 21 Three-core polymeric cable |

All data in respect of cable allocations are approximate. Contact your CELLPACK representative for the correct choice of product.