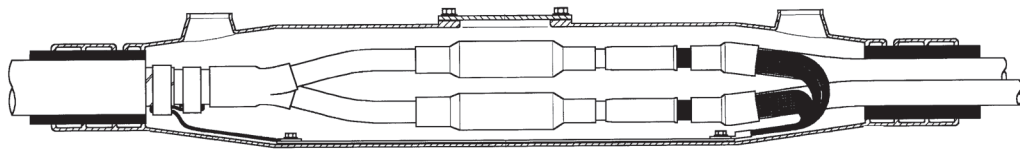


10 kV Transition Joint vmÜ



for paper cables
to 3 single-core polymeric cables



Cable Type	Cross Section (mm ²)	Joint Box Type	Cast Iron Joint Box	Cast Resin PU 910
N(A)KBA, N(A)HBKA to N(A)YSEY, NA2XY, N(A)2XSY, N2XSEY, NA2XS2Y, N(A)2XS(F)2Y,	3 x 16 - 25	VMÜ 10/1	VS 10/64	1 x 10 kg
	3 x 35 - 70	VMÜ 10/2	VS 10/75	2 x 8 = 16 kg
	3 x 95 - 240	VMÜ 10/3	VS 10/87	3 x 8 = 24 kg
	3 x 95 - 300	VMÜ 10/4	VS 10/95-105	3 x 8 = 24 kg

HÖHNE-10-kV-Sets are a combination of heat shrink technique with polyurethane cast resin and cast-iron joint boxes, combining the mechanical and electrical advantages of all three systems. Within a short assembly time a maximum of safety and extreme long time stability is guaranteed.

Insulating Set

The insulating set is specially adapted to the existing cable types and contains system seals, spreader caps, fill- and smoothing bands, stress-control elements, shrink tubes, earthing bridges and roll-springs with flexible earthing braids.

Screw or compression connectors are not included.

Joint Box

The joint box is made of cast iron with special ventilation tubes, earthing points, cover and mandrel in the nominal sizes corresponding to the cable diameters. They are impact resistant and allow immediate operation of the cable after sealing – a high degree of mechanical safety.

Cast Resin

(according VDE 0291/Part 2)

Polyurethane cast resin type PU 910 is an unfilled, low viscous, elastic hardening two-component system.

For technical data on cast resins please refer to the cast resin section of the catalogue.

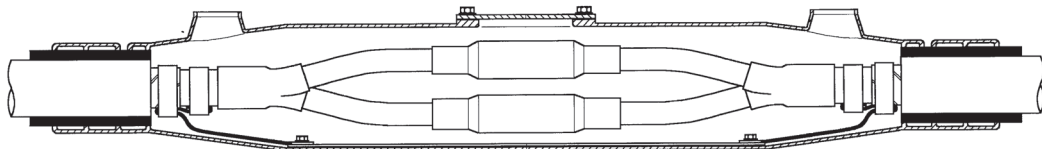
Specification

- Insulating set for the cable types, complete with system accessories, without compression or screw connectors
- cast iron joint box
- cast resin in buckets / tins

10 kV Straight Joint VMP



for paper cables



Cable Type	Cross Section (mm ²)	Joint Box Type	Cast Iron Joint Box	Cast Resin PU 910
N(A)KBA N(A)HKBA	3 x 16 - 25	VMP 10/1	VS 10/64	1 x 10 kg
	3 x 35 - 70	VMP 10/2	VS 10/64	1 x 10 kg
	3 x 95 - 185	VMP 10/3	VS 10/75	2 x 8 = 16 kg
	3 x 240 - 300	VMP 10/4	VS 10/87	3 x 8 = 24 kg

HÖHNE-10-kV-Sets are a combination of heat shrink technique with polyurethane cast resin and cast-iron joint boxes, combining the mechanical and electrical advantages of all three systems. Within a short assembly time a maximum of safety and extreme long time stability is guaranteed.

Insulating Set

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Screw or compression connectors are not included.

Joint Box

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Cast Resin

(according VDE 0291/Part 2)

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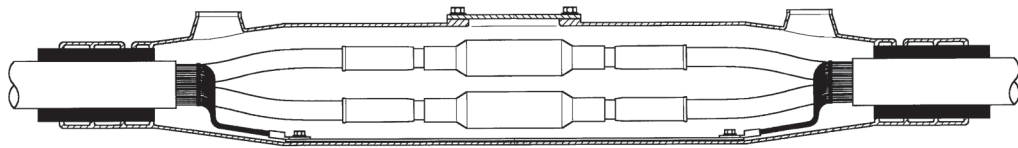
Specification

- Insulating set for the cable types, complete with system accessories, without compression or screw connectors
- cast iron joint box
- cast resin in buckets / tins

10 kV Straight Joint VMK



for polymeric cables
3-core to 3-core
3-core to 3 single-core



Cable Type	Cross Section (mm ²)	Joint Box Type	Cast Iron Joint Box	Cast Resin PU 910
N(A)YSEY, NA2XY, N(A)2XSY, N2XSEY, NA2XS2Y, N(A)2XS(F)2Y	3 x 16 - 25	VMK 10/1	VS 10/64	1 x 10 kg
	3 x 35 - 70	VMK 10/2	VS 10/75	2 x 8 = 16 kg
	3 x 95 - 240	VMK 10/3	VS 10/87	3 x 8 = 24 kg

HÖHNE-10-kV-Sets are a combination of heat shrink technique with polyurethane cast resin and cast-iron joint boxes, combining the mechanical and electrical advantages of all three systems. Within a short assembly time a maximum of safety and extreme long time stability is guaranteed.

Insulating Set

The insulating set is specially adapted to the existing cable types and contains system seals, fill- and smoothing bands, stress-controll elements, shrink tubes.

Screw or compression connectors are not included.

Joint Box

The joint box is made of cast iron with special ventilation tubes, earthing points, cover and mandrel in the nominal sizes corresponding to the cable diameters. They are impact resistant and allow immediate operation of the cable after sealing – a high degree of mechanical safety.

Cast Resin

(according VDE 0291/Part 2)

Polyurethane cast resin type PU 910 is an unfilled, low viscous, elastic hardening two-component system.

For technical data on cast resins please refer to the cast resin section of the catalogue.

Specification

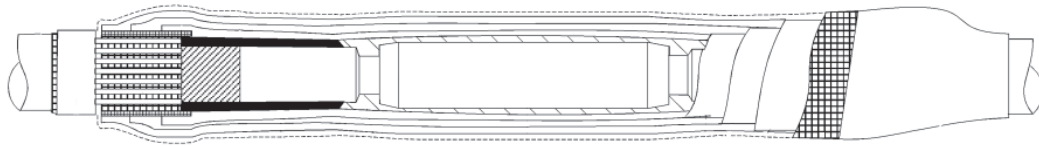
- Insulating set for the cable types, complete with system accessories, without compression or screw connectors
- cast iron joint box
- cast resin in buckets / tins

10 / 30 kV Straight Joints CHM



heat shrink technique

for single-core polymeric cable



10 (12) kV-Joints				
Joint Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Ø max. over Connector (mm)	max. Connector-lengths (mm)
CHM 12 kV 35-95	35 – 95	12,6	25	135
CHM 12 kV 95-240	95 – 240	17,3	33	145
CHM 12 kV 150-300	150 – 300	19,9	40	220

20 (24) kV- Joints				
Joint Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Ø max. over Connector (mm)	max. Connector-lengths (mm)
CHM 24 kV 10-35	10 – 35	12,6	20	100
CHM 24 kV 50-150	50 – 150	17,3	25	125
CHM 24 kV 70-240	70 – 240	19,9	33	145
CHM 24 kV 150-300	150 – 300	23,1	40	220

30 (36) kV- Joints				
Joint Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Ø max. over Connector (mm)	max. Connector-lengths (mm)
CHM 36 kV 35-70	35 – 70	19,9	20	100
CHM 36 kV 70-150	70 – 150	23,1	25	135
CHM 36 kV 150-300	150 – 300	27,3	35	220

Application

The heat shrink joint type CHM is suitable for single-core polymeric cables up to 30 kV.

It allows connections between different cross-sections and different cable-designs.

Construction

The joint consists of silicone stress-control elements, filling tape, insulating tubes, tubes with conductive outer layer, screen of copper mesh and outer protection tube. The installation is easy and time-saving.

Tests

The joint is tested according to CENELEC HD 629.2 and meets the requirements of all essential international regulations.

Indoor Terminations CHE-I



heat shrink technique

for single-core polymeric cable
10-30 kV

10 (12) kV Indoor Termination				
Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Lenght (mm)	Screens
CHE-I 12kV 25-95	25 – 95	12,6	220	-
CHE-I 12kV 95-240	95 – 240	17,3	220	-
CHE-I 12kV 150-400	150 – 400	19,9	220	-

20 (24) kV Indoor Termination				
Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Lenght (mm)	Screens
CHE-I 24kV 10-35	10 – 35	12,6	220	1
CHE-I 24kV 25-150	25 – 150	17,3	220	1
CHE-I 24kV 70-240	70 – 240	19,9	220	1
CHE-I 24kV 120-300	120 – 300	23,1	220	1

30 (36) kV Indoor Termination				
Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Lenght (mm)	Screens
CHE-I 36kV 35-70	35 – 70	19,9	400	2
CHE-I 36kV 50-150	50 – 150	23,1	400	2
CHE-I 36kV 150-400	150 – 400	27,3	400	2



Construction

The termination consists of silicone stress-control elements, filling tape, insulating tube and silicone screens.

Application

Heat shrink terminations are suitable for medium voltage single-core polymeric cables with different cable-designs.

By combining the techniques slip-on and heat shrink the mounting is simple and fast.

Tests

The terminations are tested according to CENELEC HD 629.2 and meet the requirements of all essential international regulations.

Outdoor Terminations CHE-F



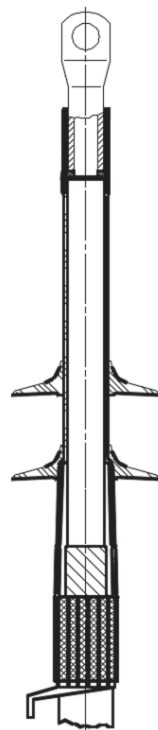
heat shrink technique

for single-core polymeric cable
10-30 kV

10 (12) kV Outdoor Termination				
Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Lenght (mm)	Screens
CHE-F 12kV 25-95	25 – 95	12,6	220	1
CHE-F 12kV 95-240	95 – 240	17,3	220	1
CHE-F 12kV 150-400	150 – 400	19,9	220	1

20 (24) kV Outdoor Termination				
Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Lenght (mm)	Screens
CHE-F 24kV 10-35	10 – 35	12,6	400	3
CHE-F 24kV 25-150	25 – 150	17,3	400	3
CHE-F 24kV 70-240	70 – 240	19,9	400	3
CHE-F 24kV 120-300	120 – 300	23,1	400	3

30 (36) kV Outdoor Termination				
Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Lenght (mm)	Screens
CHE-F 36kV 35-70	35 – 70	19,9	600	4
CHE-F 36kV 50-150	50 – 150	23,1	600	4
CHE-F 36kV 150-400	150 – 400	27,3	600	4



Construction

The termination consists of silicone stress-control elements, filling tape, insulating tube and silicone screens.

Application

Heat shrink terminations are suitable for medium voltage single-core polymeric cables with different cable-designs.

By combining the techniques slip-on and heat shrink the mounting is simple and fast.

Tests

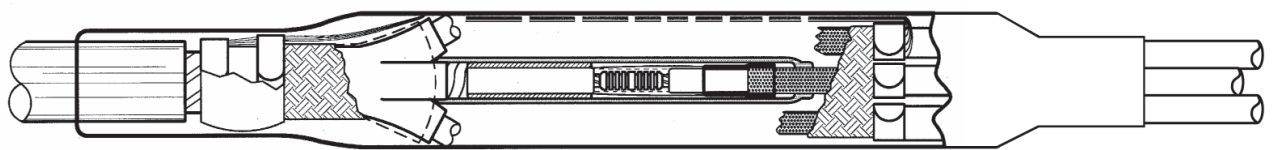
The terminations are tested according to CENELEC HD 629.2 and meet the requirements of all essential international regulations.

10 / 15 kV Transition Joints CHMPR 3-1



heat shrink technique

for belted cable
to 3 single-core polymeric cable



Cable Type	Type	Cross Section for 17 kV (mm ²)	Cross Section for 12 kV (mm ²)	Ø min. over Insulation (mm)	Ø max. over Connector (mm)	max. Connector-length (mm)
N(A)KBA, N(A)HKBA to N(A)2XS(F)2Y	CHMPR 3-1 17 kV 35-50	35 – 50	35 – 50	12,6	20	130
	CHMPR 3-1 17 kV 70-240	70 – 240	95 – 240	17,3	33	150
	CHMPR 3-1 17 kV 240-400	240 – 400	300 – 400	23,1	42	170

Characteristics

The stress-control is made by silicone slip-on elements.
The insulation is made by heat shrink tubes.

The joint combines save installation with slip-on elements and the flexibility and efficiency of heat shrink technique.
The joint allows connections between different cross-sections and different cable designs.

Construction

The joint consists of silicone stress-control elements, filling tape, oil-resisting heat shrink tubes, conductive heat shrink tubes and spreader cap, insulating tubes, tubes with conductive outer layer, screen of copper mesh and outer protection tube.

Screw or compression connectors are not included.

Tests

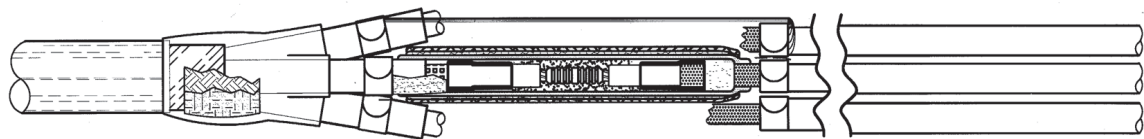
The termination is tested according to CENELEC HD 629.2 and meets the requirements of all essential international regulations.

20 kV Transition Joints CHMP (3Pb) 1-3



heat shrink technique

for 3 core single-lead sheath
to 3 single-core polymeric cable



Cable Type	Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Ø max. over Connector (mm)	max. Connector-length (mm)
N(A)EKEBA up N(A)2XS(F)2Y	CHMP(3Pb) 3-1 24 kV 16-25	16 – 25	12,6	20	100
	CHMP(3Pb) 3-1 24 kV 35-95	35 – 95	17,3	25	140
	CHMP(3Pb) 3-1 24 kV 95-240	95 – 240	19,9	33	150
	CHMP(3Pb) 3-1 24 kV 185-300	185 – 300	23,1	40	160

Characteristics

The stress-control is made by silicone slip-on elements.
The insulation is made by heat shrink tubes.

The joint combines save installation with slip-on elements and the flexibility and efficiency of heat shrink technique.
The joint allows connections between different cross-sections and different cable designs.

Construction

The joint consists of silicone stress-control elements, filling tape, oil-resisting heat shrink tubes, conductive heat shrink tubes and spreader cap, insulating tubes, tubes with conductive outer layer, screen of copper mesh and outer protection tube.

Screw or compression connectors are not included.

Tests

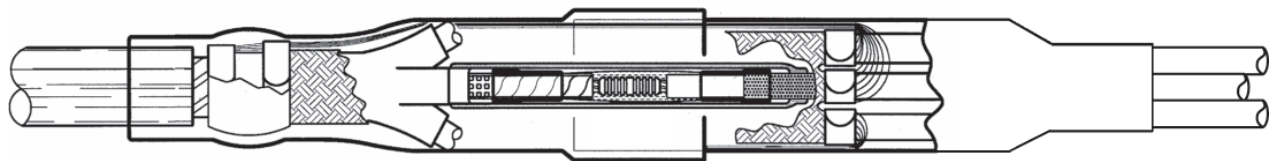
The termination is tested according to CENELEC HD 629.2 and meets the requirements of all essential international regulations.

20 kV Transition Joints CHMP (H) 1-3



heat shrink technique

for metallized paaper screened cable
to 3 single-core polymeric cable



Cable Type	Type	Cross Section (mm ²)	Ø min. over Insulation (mm)	Ø max. over Connector (mm)	max. Connector-length (mm)
N(A)HKBA up N(A)2XS(F)2Y	CHMP(H) 3-1 24 kV 16-35	16 – 35	12,6	15	100
	CHMP(H) 3-1 24 kV 35-70	35 – 70	17,3	25	110
	CHMP(H) 3-1 24 kV 95-240	95 – 240	19,9	33	150
	CHMP(H) 3-1 24 kV 185-300	185 – 300	23,1	40	160

Characteristics

The stress-control is made by silicone slip-on elements.
The insulation is made by heat shrink tubes.

The joint combines save installation with slip-on elements and the flexibility and efficiency of heat shrink technique.
The joint allows connections between different cross-sections and different cabledesigns.

Construction

The joint consists of silicone stress-control elements, filling tape, oil-resisting heat shrink tubes, conductive heat shrink tubes and spreader cap, insulating tubes, tubes with conductive outer layer, screen of copper mesh and outer protection tube.

Screw or compression connectors are not included.

Tests

The termination is tested according to GENELEC HD 629.2 and meets the requirements of all essential international regulations.