MV Cable Accessories Product

BAHRA ELECTRIC

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ELECTRIC

Saudi Innovator & Specialist in Electrical

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Bahra Electric

Bahra Cables Company was established in 2008 to serve Saudi & GCC Markets. It is based in Bahra industrial city located 35km from Jeddah. Bahra Cables Factory occupies over: 700,000 square meters of prime manufacturing space together with associated design offices, laboratories and storage area. It specializes in Manufacturing and Distributing Electric Cables Bahra Cables Company is committed to the production of the best product quality. and service, utilizing cutting edge European Technology in manufacturing. The core technologies in production processes, material applications and logistic procedures were provided by German experts and the key functions are being managed by German engineers.
The organization has a lean vertical management structure which is designed to integrate with a highly developed IT-based structure. This partnership allows the rapid flow of information through the management chain and facilities timely response in the best traditions of 'hands on' management. Bahra Electric Company has the flexibility to provide a versatile product range of Cable accessories to serve the construction, electric utilities, distribution, industrial, oil & gas and petrochemical sectors. The product produced comply with international standards such as IEC 60502-4, IEEE 404, and HD 629-1.

AREA

Bahra Cables Company has a total land area of about 700,000 sqm at disposal.
The built-up area, including offices, plants and testing facilities is more than 129,000 sqm.
Total available warehouses and open storage area is about 211,500 sqm.



Manufacturing

PRODUCT SCOPE:

BAHRA Proud to have the Design and Manufacturing of All main components regarding to the Cable Accessories up to 36kv done in house by BAHRA engineers and Workers BAHRA Electric COMPANY is committed to deliver the highest standard MV cable Accessories to the Local market, GCC and for export.
To do so, Bahra Cables Company produces a versatile product range cover most of our customer Needs: according to IEC 60502-4, HD629-1-S3, IEEE404 and latest SEC standard up to 18/30 (36) kV which is Covered in the catalogue.
- Our products are meticulously designed and manufactured to adhere to both international standards and the rigorous requirements set forth by the Saudi Electricity Company (SEC). We utilize premium materials, such as Silicon LSR, renowned for its exceptional electrical and mechanical properties, ensuring unparalleled performance and reliability. Moreover, we leverage cutting-edge simulation software, notably COMSOL Multi-physics, to meticulously analyze and optimize our product designs. This advanced simulation capability enables us to accurately calculate and mitigate electrical and mechanical stresses experienced by our components under varying operating conditions. As a result, we can confidently minimize the size of our products while maximizing efficiency and user-friendliness during installation within any panel or switchgear system.
Furthermore, our commitment to excellence extends to our manufacturing processes. We maintain a pristine production environment and utilize state-of-the-art injection molding technology sourced from leading European manufacturers. This investment ensures zero production defects and high-efficiency production, guaranteeing the utmost quality in our Product.

FACTORY MACHINERY

All production machines are top of the line of the Cable accessories machinery suppliers. From start up with injection and molding the pre-molded parts to the Grinding ,cleaning and painting process reaching to assembly machines up to the laboratories and the final test fields, all technical equipment is provided with the highest international standards control equipment and measuring devices which ensures that the requirements of different quality standards are met.
- All machines/production lines are prepared for data communication and data exchange between each other in order to guarantee the best qualified and automated process

Technology and Machinery:

- With our customer-oriented understanding of technologies and the Distinctive culture of innovation, we have committed ourselves to concentrate, not only on the demands of our customers for technically innovative and thoroughly tested products, but also to ensure the safe and reliable functioning of our system solutions.

LOGISTICS

All material flow in BCC from incoming raw material up to outgoing cables will be planned and controlled by a complete software system. Herein a classical ERP system will be enhanced and completed by the most modern MES (Manufacturing Executive System) which has a unique focus on the specific problematic issues of cables manufacturing with longitudinal products being winded up and winded off.

PLANNING

The planning system is active on several levels. For the proper function, all master data (material properties, dimensions, etc.) are saved and permanently maintained in the central database Based on
- Product design
- Planning of Sales Orders
- Planning of Production Order

DATA COMMUNICATION

The exchange of data is important in several areas.
- Incoming inspection
- Raw Materials - Status quo of production orders
- Finished goods
- Shipping status


DESMA

Quality control

QUALITY IS OUR MAIN TARGET

Bahra Cables accessories Company is born to be one of the leading Cable accessories Manufacturers in Saudi Arabia and the GCC area. We are working in different axes to completely fulfill customers Satisfaction which is the milestone of our business, such axes are:

1. Product quality complying with the local and international standards
2. Product Reliability is starting from the time of product design to fit for the intended application And environmental conditions, to the selection of the raw material from only the highest class Suppliers with internationally trusted reputation. Our state of art testing equipment and the Strict quality procedures ensure the product quality and integrity so we can guarantee that our cables accessories are defect free and suitable for the intended application through the cables accessories service Lifetime.
3. High Performance of the product and service through cooperation between experienced Staff from Germany and local experts who are aware of the local market requirements and The highest international standards of cable accessories manufacturing. Such cooperation in knowhow is Invested to provide our customer with the best service and support.
4. Bahra Cables accessories Company's Quality Management System conforms to the ISO 9001: International Management Quality System Standard with scope of Design and Manufacturing of Electrical Power Cables and Wires. BCC is certified by American Systems Registrar (ASR), ANAB Accredited.
5. Bahra Cables accessories Company is frequently testing its products at internationally reputable labs, Diversity of products have been tested and confirmed at approved international labs as per the international standard like: IEC,IEEE and Cenelic.



Material

Why BAHRA selected LSR silicon Material:

Bahra Cables accessories selected Liquid Silicon Rubber technology for all active molded parts of joints, indoor and outdoor termination and Elbow terminations.
Due to the excellent thermal stability, flexibility, and resistance to chemicals, making it suitable for Cables accessories of all rates MV, HV and EHV cables.
LSR has many advantages over other technology as EPDM. High flexibility over a broad temperature range. Even From -50°C to 70 C silicone elastomers are still flexible and show rubbery-elastic properties.
Also the lifetime under Electrical and Mechanical stresses is expected to be larger than 40 years.


WAGNER
REINHARDT-TECHNIK
LSR eTwin Connect

Technical Training and support



At BAHRA Electric, we understand that cable jointing is a highly specialized field that requires technical knowledge, precision, and expertise. As voltage levels increase, the need for in-depth experience and familiarity with different products becomes even more critical. Proper installation is essential to guarantee safety, reliability, and long-term performance, as any mistakes can lead to serious failures.

We strongly believe that every cable accessory must be installed with utmost precision to ensure it reaches its intended lifespan. Cable jointing is not just a task—it is a skilled profession that demands accuracy, craftsmanship, and meticulous attention to detail during both cable preparation and installation.

To meet our customers' diverse needs, we offer a full range of installation services for cable accessories, ensuring they are fitted correctly and efficiently for maximum durability and performance.



Straight & Transition Element

Straight Joint (JS) up to 17.5kv

Transition Joint (JT) up to 17.5kv

Straight Joint cold shrink (JSC) up to 17.5kv

Transition Joint Cold shrink (JTC) up to 17.5kv

Straight Joint (JS) up to 36kv

Transition Joint (JT) up to 36kv

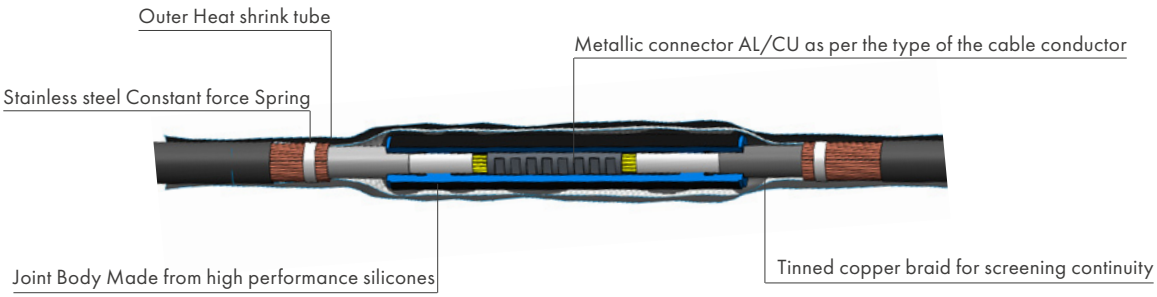
Straight Joint cold shrink (JSC) up to 36kv

Transition Joint Cold shrink (JTC) up to 36kv

Straight Joint (JS) up to 17.5kv

JS is a straight Joint Kit with Pre-molded slip on body made of silicon rubber for XLPE insulated cable up to 17.5kv

Main Components



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Joint Size	Workable Range
6/10(12)kv	95	11,55	18,35	JS 17.5-Size No 1	18,0 – 24,5 mm
	120	12,95	19,75		
	150	14,3	21,1		
	185	15,9	22,7		
	240	18,4	25,2	JS 17.5-Size No 3	24,0 – 32,0 mm
	300	20,5	27,3		
	400	24	30,8		
8.7/15(17.5)kv	50	8	17	JS 17.5-Size No1	18,0 – 24,5 mm
	70	9,7	18,7		
	95	11,55	20,55		
	120	12,95	21,95		
	150	14,3	23,3		
	185	15,9	24,9	JS 17.5-Size No3	24,0 – 32,0 mm
	240	18,4	27,4		
	300	20,5	29,5		
	400	24	33	JS 17.5- size No 5	31,5 – 42,0 mm
	500	27	36	JS 17.5KV-size No 6	34.8-41 mm

Characteristics

Wide cross-section range from cable 50 mm^2 to cable 800 mm^2

Quick, safe and easy assembly

Slip on Joint Body with Geometrical stress control system

Ready for immediate operation

No special tool

Application/ Suitability

Indoor

Outdoor

Underground

Water

Installation ducts

Ductwork

Storage conditions/Shelf life

Long time shelf life in Extreme temperature conditions

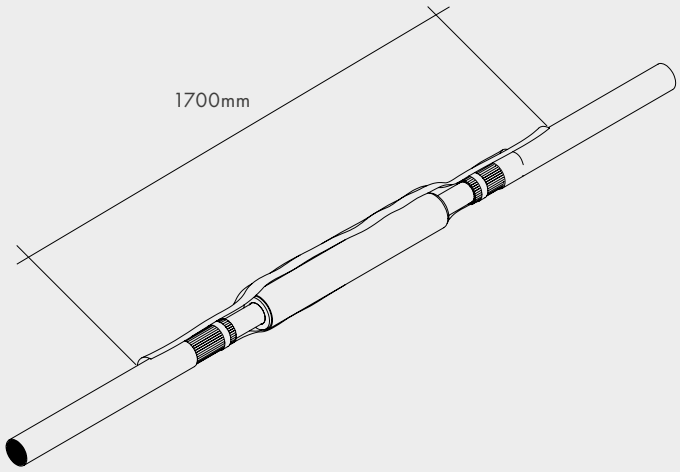
Voltage level

U_0/U (U_m) 6/10 (12) kV - 8.7/15 (17.5) kV

Scope of Delivery

Conductor connector / Metallic shielded kit / Constant force spring / Armour connection kit / Installation instructions / Sealing kit / Accessories.

Total Length



Electrical Properties:

		6/10(12)	8,7/15(17,5)
1	Maximum Voltage system	12kV	17,5kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	27kV	39kV
4	Electrical heat cycling in air/water	15kV	22kV
5	Impulse withstand voltage	75kV	95kV

Test standards

IEC 60502-4,

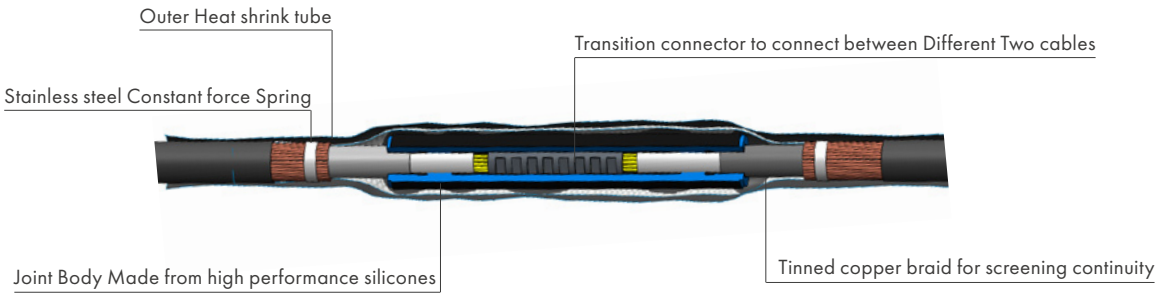
IEEE 404

CENELEC HD 629.1

Transition Joint (JT) up to 17.5kv

JT is a transition Joint with Pre-molded slip on body made of silicon rubber for XLPE for insulated cable with different cross section area and different conductor material up to 17.5kv

Main Components



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Joint Size	Workable Range
6/10(12)kv	95	11,55	18,35	JS 17.5-Size No 1	18,0 – 24,5 mm
	120	12,95	19,75		
	150	14,3	21,1		
	185	15,9	22,7		
	240	18,4	25,2	JS 17.5-Size No 3	24,0 – 32,0 mm
	300	20,5	27,3		
	400	24	30,8		
8.7/15(17.5)kv	50	8	17	JS 17.5-Size No1	18,0 – 24,5 mm
	70	9,7	18,7		
	95	11,55	20,55		
	120	12,95	21,95		
	150	14,3	23,3		
	185	15,9	24,9	JS 17.5-Size No3	24,0 – 32,0 mm
	240	18,4	27,4		
	300	20,5	29,5		
	400	24	33	JS 17.5- size No 5	31,5 – 42,0 mm
	500	27	36	JS 17.5KV-size No 6	34.8-41 mm

Characteristics

Wide cross-section range from cable 50 mm^2 to cable 800 mm^2

Quick, safe and easy assembly

Slip on Joint Body with Geometrical stress control system

Ready for immediate operation

No special tool

Applicable for different TO CONNECT BETWEEN Different C.S.A

Application/ Suitability

Indoor

Outdoor

Underground

Water

Installation ducts

Ductwork

Storage conditions/Shelf life

Long time shelf life in Extreme temperature conditions

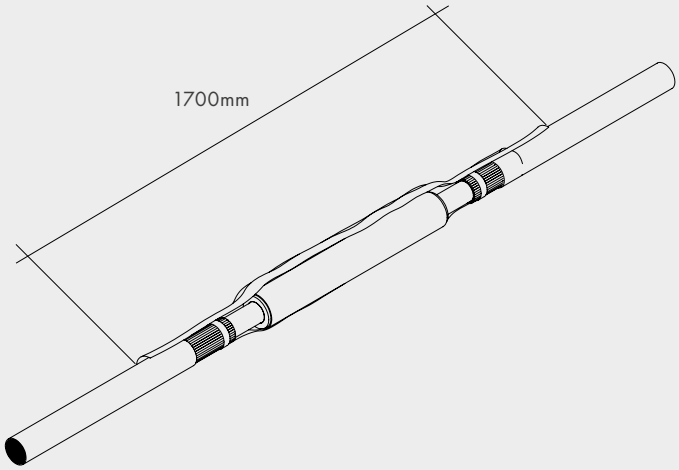
Voltage level

U_0/U (U_m) 6/10 (12) kV - 8.7/15 (17.5) kV

Scope of Delivery

Conductor connector / Metallic shielded kit / Constant force spring / Armour connection kit / Installation instructions / Sealing kit / Accessories.

Total Length



Electrical Properties:

		6/10(12)	8,7/15(17,5)
1	Maximum Voltage system	12kV	17,5kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	27kV	39kV
4	Electrical heat cycling in air/water	15kV	22kV
5	Impulse withstand voltage	75kV	95kV

Test standards

IEC 60502-4,

IEEE 404

CENELEC HD 629.1

Straight Joint cold shrink (JSC) up to 17.5kv

(JSC) Is a straight Joint with pre-molded cold shrink body made from high performances silicon rubber for XLPE insulated cable up to 17.5kv



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Joint Size	Workable Range
6/10(12)kv	95	11,55	18,35	JS 17.5-Size No 1	18,0 – 24,5 mm
	120	12,95	19,75		
	150	14,3	21,1		
	185	15,9	22,7		
	240	18,4	25,2	JS 17.5-Size No 3	24,0 – 32,0 mm
	300	20,5	27,3		
	400	24	30,8		
8.7/15(17.5)kv	50	8	17	JS 17.5-Size No1	18,0 – 24,5 mm
	70	9,7	18,7		
	95	11,55	20,55		
	120	12,95	21,95		
	150	14,3	23,3		
	185	15,9	24,9	JS 17.5-Size No3	24,0 – 32,0 mm
	240	18,4	27,4		
	300	20,5	29,5		
	400	24	33	JS 17.5- size No 5	31,5 – 42,0 mm
	500	27	36	JS 17.5KV-size No 6	34.8-41 mm

Characteristics

Wide cross-section range from cable 50 mm^2 to cable 800 mm^2

Quick, easy assembly using the cold shrink technology

Slip on Joint Body with Geometrical stress control system

Ready for immediate operation

No special tool

Available to work with the Mechanical Connector

Application/ Suitability

Indoor

Outdoor

Underground

Water

Installation ducts

Ductwork

Storage conditions/Shelf life

Long time shelf life in Extreme temperature conditions

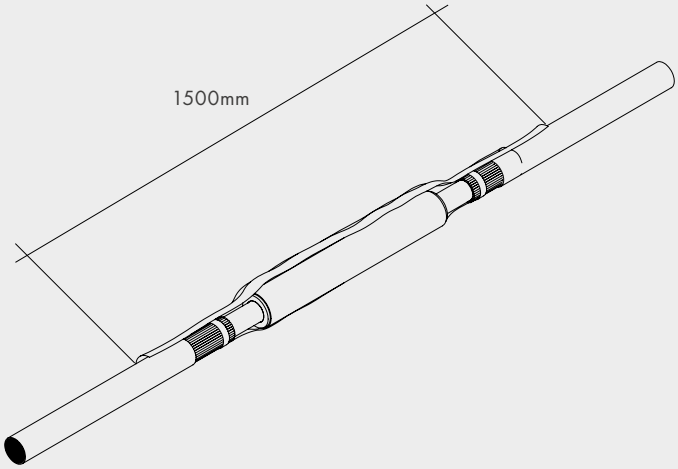
Voltage level

U_0/U (U_m) 6/10 (12) kV - 8.7/15 (17.5) kV

Scope of Delivery

Conductor connector / Metallic shielded kit / Constant force spring / Armour connection kit / Installation instructions / Sealing kit / Accessories.

Total Length



Electrical Properties:

		6/10(12)	8,7/15(17,5)
1	Maximum Voltage system	12kV	17,5kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	27kV	39kV
4	Electrical heat cycling in air/water	15kV	22kV
5	Impulse withstand voltage	75kV	95kV

Test standards

IEC 60502-4,

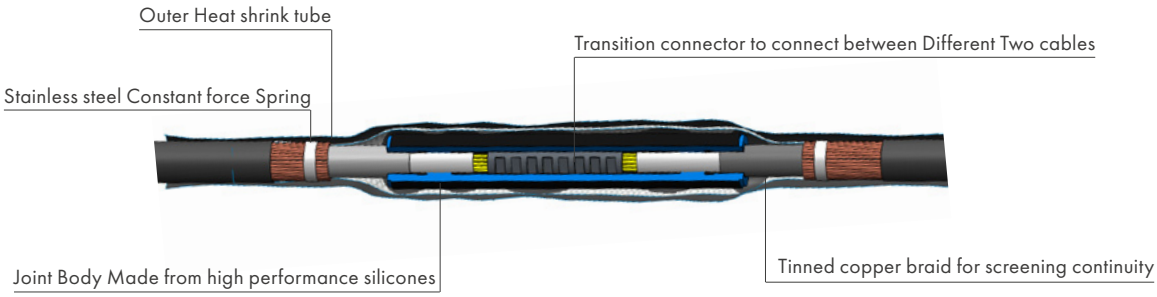
IEEE 404

CENELEC HD 629.1

Transition Joint Cold shrink (JTC) up to 17.5kv

JTC is a transition Joint with Cold shrink slip on body made of silicon rubber for XLPE for insulated cable with different cross section area and different conductor material up to 17.5kv

Main Components



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Joint Size	Workable Range
6/10(12)kv	95	11,55	18,35	JS 17.5-Size No 1	18,0 – 24,5 mm
	120	12,95	19,75		
	150	14,3	21,1		
	185	15,9	22,7		
	240	18,4	25,2	JS 17.5-Size No 3	24,0 – 32,0 mm
	300	20,5	27,3		
	400	24	30,8		
8.7/15(17.5)kv	50	8	17	JS 17.5-Size No1	18,0 – 24,5 mm
	70	9,7	18,7		
	95	11,55	20,55		
	120	12,95	21,95		
	150	14,3	23,3		
	185	15,9	24,9	JS 17.5-Size No3	24,0 – 32,0 mm
	240	18,4	27,4		
	300	20,5	29,5		
	400	24	33	JS 17.5- size No 5	31,5 – 42,0 mm
	500	27	36	JS 17.5KV-size No 6	34.8-41 mm

Characteristics

Wide cross-section range from cable 50 mm^2 to cable 800 mm^2

Quick, easy assembly using the cold shrink technology

Slip on Joint Body with Geometrical stress control system

Ready for immediate operation

No special tool

Applicable for different TO CONNECT BETWEEN Different C.S.A

Application/ Suitability

Indoor

Outdoor

Underground

Water

Installation ducts

Ductwork

Storage conditions/Shelf life

Long time shelf life in Extreme temperature conditions

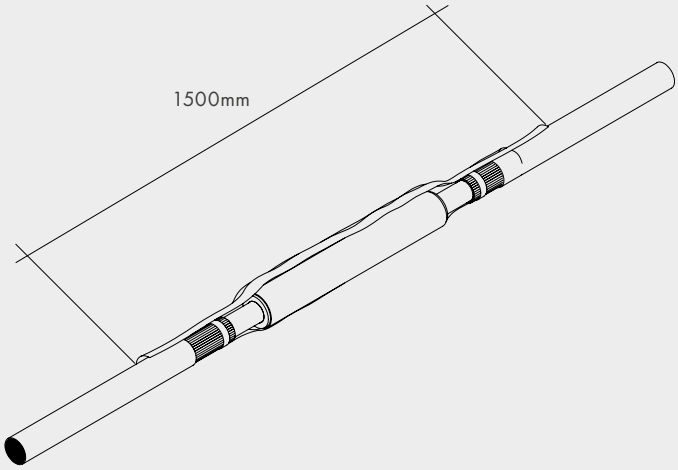
Voltage level

U_0/U (U_m) 6/10 (12) kV - 8.7/15 (17.5) kV

Scope of Delivery

Conductor connector / Metallic shielded kit / Constant force spring / Armour connection kit / Installation instructions / Sealing kit / Accessories.

Total Length



Electrical Properties:

		6/10(12)	8,7/15(17,5)
1	Maximum Voltage system	12kV	17,5kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	27kV	39kV
4	Electrical heat cycling in air/water	15kV	22kV
5	Impulse withstand voltage	75kV	95kV

Test standards

IEC 60502-4,

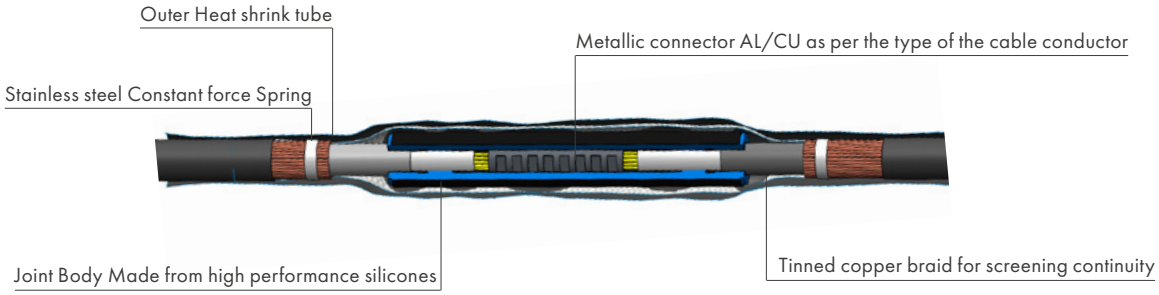
IEEE 404

CENELEC HD 629.1

Straight Joint (JS) up to 36kv

JS is a straight Joint Kit with Pre-molded slip on body made of silicon rubber for XLPE insulated cable up to 36kv

Main Components



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Joint Size	Workable Range
12/20(24)kv	50	8,12	19,12	JS 36-Size No 1	18.0-22.0 mm
	70	9,7	20,7		
	95	11,55	22,5		
	120	12,95	24	JS 36-Size No3	18,0 – 24,5 mm
	150	14,3	25,3		
	185	15,9	26,9		
	240	18,4	29,4		
	300	20,5	31,5		
	400	24	35	Js36-Size No 5	31.5-41.5 mm
18/30(36)kv	50	8	26,12	JS 36-Size No3	18,0 – 24,5 mm
	70	9,7	27,7		
	95	11,55	29,55		
	120	12,95	30,95		
	150	14,3	32,3		
	185	15,9	33,9	Js36-Size No 5	31.5-41.5 mm
	240	18,4	36,4		
	300	20,5	38,5		
	400	24	42	Js36-Size No 7	41.5 – 51.5 mm
	500	27	45		

Characteristics

Wide cross-section range from cable 50 mm^2 to cable 800 mm^2

Quick, easy assembly using the cold shrink technology

Slip on Joint Body with Geometrical stress control system

Ready for immediate operation

No special tool

Application/ Suitability

Indoor

Outdoor

Underground

Water

Installation ducts

Ductwork

Storage conditions/Shelf life

Long time shelf life in Extreme temperature conditions

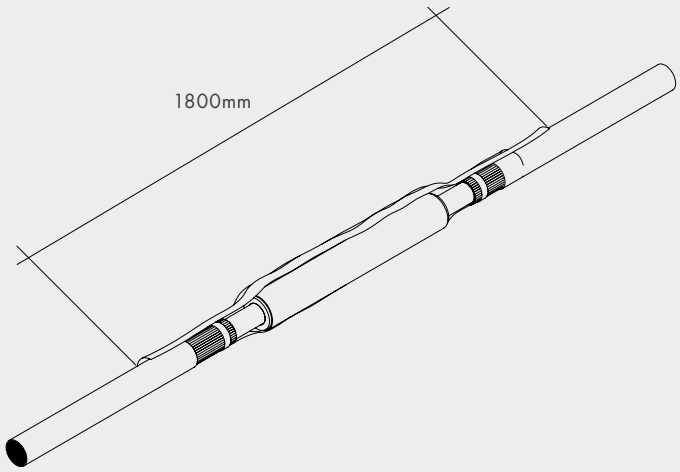
Voltage level

U_0/U (U_m) 12/20(24) kV - 18/30(36) kV

Scope of Delivery

Conductor connector / Metallic shielded kit / Constant force spring / Armour connection kit / Installation instructions / Sealing kit / Accessories.

Total Length



Electrical Properties:

		12/20(24)	18/30(36)
1	Maximum Voltage system	24kV	36kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	54kV	81kV
4	Electrical heat cycling in air/water	30kV	45kV
5	Impulse withstand voltage	125kV	170kV

Test standards

IEC 60502-4,

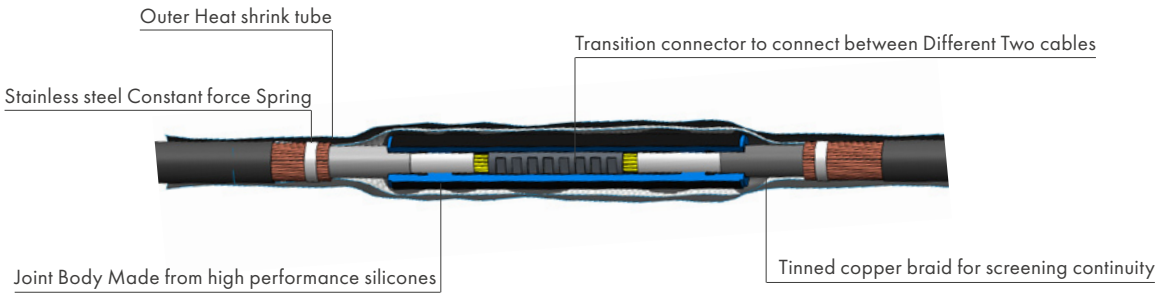
IEEE 404

CENELEC HD 629.1

Transition Joint (JT) up to 36kv

JT is a transition Joint with Pre-molded slip on body made of silicon rubber for XLPE for insulated cable with different cross section area and different conductor material up to 36kv

Main Components



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Joint Size	Workable Range
12/20(24)kv	50	8,12	19,12	JS 36-Size No 1	18.0-22.0 mm
	70	9,7	20,7		
	95	11,55	22,5		
	120	12,95	24	JS 36-Size No3	18,0 – 24,5 mm
	150	14,3	25,3		
	185	15,9	26,9		
	240	18,4	29,4		
	300	20,5	31,5		
	400	24	35	Js36-Size No 5	31.5-41.5 mm
18/30(36)kv	50	8	26,12	JS 36-Size No3	18,0 – 24,5 mm
	70	9,7	27,7		
	95	11,55	29,55		
	120	12,95	30,95		
	150	14,3	32,3		
	185	15,9	33,9	Js36-Size No 5	31.5-41.5 mm
	240	18,4	36,4		
	300	20,5	38,5		
	400	24	42	Js36-Size No 7	41.5 – 51.5 mm
	500	27	45		

Characteristics

Wide cross-section range from cable 50 mm^2 to cable 800 mm^2

Quick, safe and easy assembly

Slip on Joint Body with Geometrical stress control system

Ready for immediate operation

No special tool

Applicable for different TO CONNECT BETWEEN Different C.S.A

Application/ Suitability

Indoor

Outdoor

Underground

Water

Installation ducts

Ductwork

Storage conditions/Shelf life

Long time shelf life in Extreme temperature conditions

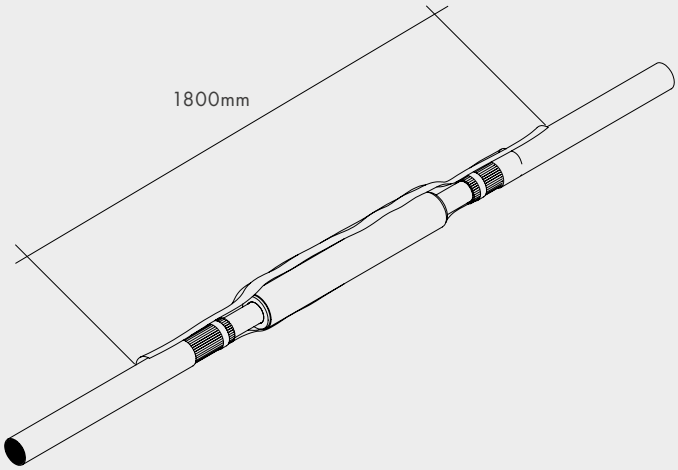
Voltage level

U_0/U (U_m) 12/20(24) kV - 18/30(36) kV

Scope of Delivery

Conductor connector / Metallic shielded kit / Constant force spring / Armour connection kit / Installation instructions / Sealing kit / Accessories.

Total Length



Electrical Properties:

		12/20(24)	18/30(36)
1	Maximum Voltage system	24kV	36kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	54kV	81kV
4	Electrical heat cycling in air/water	30kV	45kV
5	Impulse withstand voltage	125kV	170kV

Test standards

IEC 60502-4,

IEEE 404

CENELEC HD 629.1

Straight Joint cold shrink (JSC) up to 36kv

(JSC) Is a straight Joint with pre-molded cold shrink body made from high performances silicon rubber for XLPE insulated cable up to 36kv



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Joint Size	Workable Range
12/20(24)kv	50	8,12	19,12	JS 36-Size No 1	18.0-22.0 mm
	70	9,7	20,7		
	95	11,55	22,5		
	120	12,95	24	JS 36-Size No3	18,0 – 24,5 mm
	150	14,3	25,3		
	185	15,9	26,9		
	240	18,4	29,4		
	300	20,5	31,5		
	400	24	35	Js36-Size No 5	31.5-41.5 mm
18/30(36)kv	50	8	26,12	JS 36-Size No3	18,0 – 24,5 mm
	70	9,7	27,7		
	95	11,55	29,55		
	120	12,95	30,95		
	150	14,3	32,3		
	185	15,9	33,9	Js36-Size No 5	31.5-41.5 mm
	240	18,4	36,4		
	300	20,5	38,5		
	400	24	42	Js36-Size No 7	41.5 – 51.5 mm
	500	27	45		

Characteristics

Wide cross-section range from cable 50 mm^2 to cable 800 mm^2

Quick, easy assembly using the cold shrink technology

Slip on Joint Body with Geometrical stress control system

Ready for immediate operation

No special tool

Available to work with the Mechanical Connector

Application/ Suitability

Indoor

Outdoor

Underground

Water

Installation ducts

Ductwork

Storage conditions/Shelf life

Long time shelf life in Extreme temperature conditions

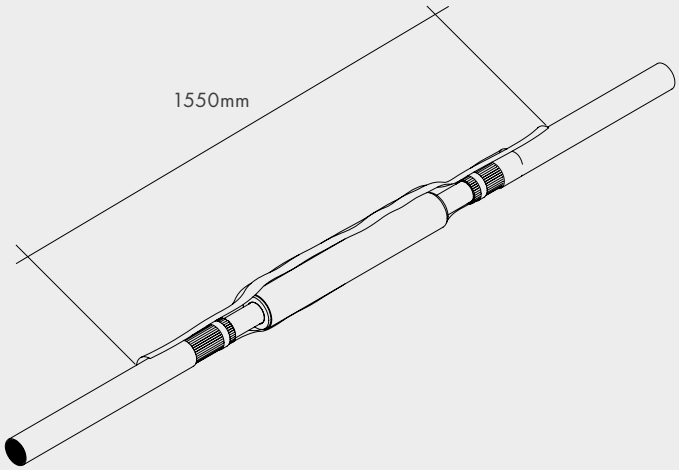
Voltage level

U_0/U (U_m) 12/20(24) kV - 18/30(36) kV

Scope of Delivery

Conductor connector / Metallic shielded kit / Constant force spring / Armour connection kit / Installation instructions / Sealing kit / Accessories.

Total Length



Electrical Properties:

		12/20(24)	18/30(36)
1	Maximum Voltage system	24kV	36kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	54kV	81kV
4	Electrical heat cycling in air/water	30kV	45kV
5	Impulse withstand voltage	125kV	170kV

Test standards

IEC 60502-4,

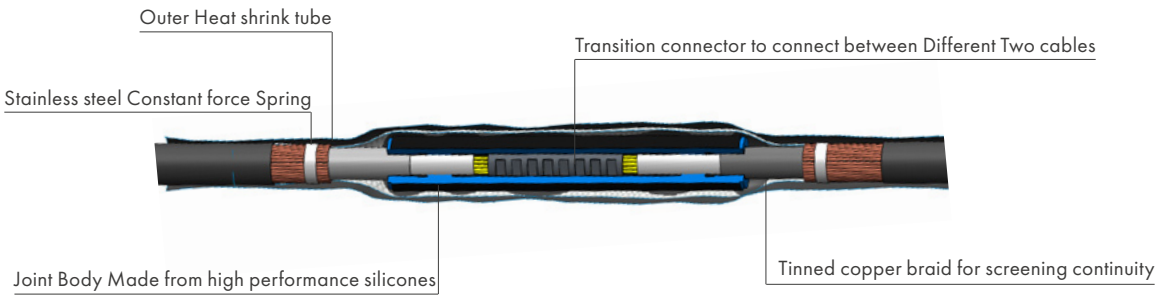
IEEE 404

CENELEC HD 629.1

Transition Joint cold shrink (JTC) up to 36kv

JTC is a transition Joint with Cold shrink slip on body made of silicon rubber for XLPE for insulated cable with different cross section area and different conductor material up to 36kv

Main Components



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Joint Size	Workable Range
12/20(24)kv	50	8,12	19,12	JS 36-Size No 1	18.0-22.0 mm
	70	9,7	20,7		
	95	11,55	22,5		
	120	12,95	24	JS 36-Size No3	18,0 – 24,5 mm
	150	14,3	25,3		
	185	15,9	26,9		
	240	18,4	29,4		
	300	20,5	31,5		
	400	24	35	Js36-Size No 5	31.5-41.5 mm
18/30(36)kv	50	8	26,12	JS 36-Size No3	18,0 – 24,5 mm
	70	9,7	27,7		
	95	11,55	29,55		
	120	12,95	30,95		
	150	14,3	32,3		
	185	15,9	33,9	Js36-Size No 5	31.5-41.5 mm
	240	18,4	36,4		
	300	20,5	38,5		
	400	24	42	Js36-Size No 7	41.5 – 51.5 mm
	500	27	45		

Characteristics

Wide cross-section range from cable 50 mm^2 to cable 800 mm^2

Quick, easy assembly using the cold shrink technology

Slip on Joint Body with Geometrical stress control system

Ready for immediate operation

No special tool

Applicable for different TO CONNECT BETWEEN Different C.S.A

Application/ Suitability

Indoor

Outdoor

Underground

Water

Installation ducts

Ductwork

Storage conditions/Shelf life

Long time shelf life in Extreme temperature conditions

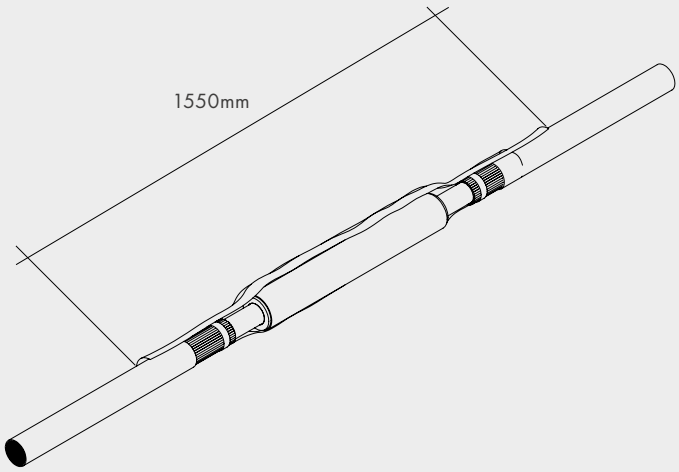
Voltage level

U_0/U (U_m) 12/20 (24) kV - 18/30 (36) kV

Scope of Delivery

Conductor connector / Metallic shielded kit / Constant force spring / Armour connection kit / Installation instructions / Sealing kit / Accessories.

Total Length



Electrical Properties:

		12/20(24)	18/30(36)
1	Maximum Voltage system	24kV	36kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	54kV	81kV
4	Electrical heat cycling in air/water	30kV	45kV
5	Impulse withstand voltage	125kV	170kV

Test standards

IEC 60502-4,

IEEE 404

CENELEC HD 629.1

BAHRA ELECTRIC

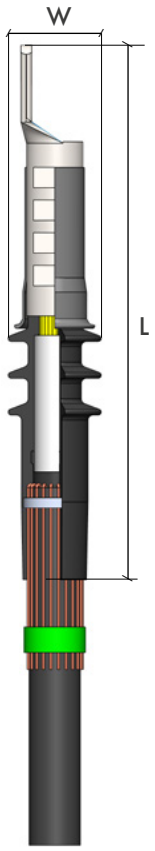
Indoor Termination Element

Indoor Termination (TI) up to 17.5kv

Indoor Termination (TI) up to 36kv

Indoor Termination (TI) up to 17.5 kV

TI is an indoor termination with slip-on body made of high performance silicon rubber applicable for connection between XLPE insulated Cable to air insulated switchgear or transformers up to 17.5kv. Applicable to work using Compression or Mechanical Connector



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Termination Size	Workable Range	Total Length (L)	Termination Width (W)
6/10(12)kv	95	11,55	18,35	TI 17.5-Size No 1	18.0-21.0 mm	359 mm	73.3 mm
	120	12,95	19,75			364 mm	73.3 mm
	150	14,3	21,1	TI 17.5-Size No 2	20.5-24 mm	374 mm	73.3 mm
	185	15,9	22,7			375 mm	73.3 mm
	240	18,4	25,2	TI 17.5-Size No 3	24.0-28.0 mm	375 mm	79.2 mm
	300	20,5	27,3			387 mm	79.2 mm
	400	24	30,8	TI 17.5-Size No 4	27.5-32.0 mm	400 mm	79.2 mm
8.7/15(17.5)kv	50	8	17	TI 17.5-Size No 1	18.0-21.0 mm	346 mm	73.3 mm
	70	9,7	18,7			346 mm	73.3 mm
	95	11,55	20,55	TI 17.5-Size No 2	20.5-24 mm	359 mm	73.3 mm
	120	12,95	21,95			364 mm	73.3 mm
	150	14,3	23,3	TI 17.5-Size No 3	24.0-28.0 mm	374 mm	79.2 mm
	185	15,9	24,9			375 mm	79.2 mm
	240	18,4	27,4	TI 17.5-Size No 4	27.5-32.0 mm	375 mm	79.2 mm
	300	20,5	29,5			387 mm	79.2 mm
	400	24	33	TI 17.5-Size No 5	31.5-36.5 mm	400 mm	86.4 mm
	500	27	36	TI 17.5-Size No 6	36-41.5 mm	406 mm	86.4 mm
	630	31	40	TI 17.5-Size No 7	39-46 mm	410 mm	146.6 mm

Characteristics

Wide cross-section range: suitable for cables from 50 mm² to 800 mm²

Silicone slip-on components for quick, safe, and easy assembly

One-piece design with integrated geometric stress control system

Ready for immediate operation

Long creepage distance thanks to optimized shed arrangement

Application/ Suitability

Indoor panels

Air insulated switch gear or transformer

Storage conditions/Shelf life

Long Life time in Extreme temperature conditions

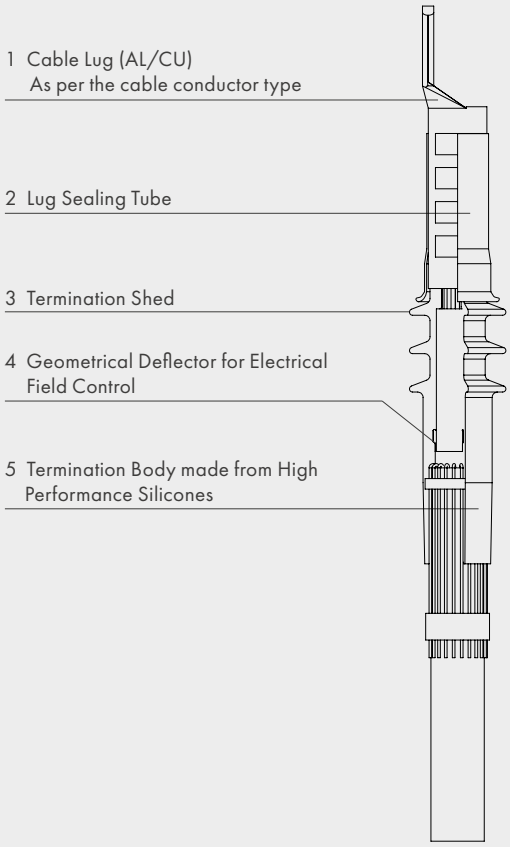
Voltage level

U0 /U (U_m) 6/10 (12) kV - 8,7/15 (17,5) kV

Scope of Delivery

One-piece slip-on silicone cable terminations with geometry stress control element, sealing tape, assembly instructions, compression or mechanical cable lugs, earthing kit, anti-tracking tube, trifurcating boot, traceability ID marker, silicone grease, and straight boot

Main Components



Electrical Properties:

		6/10(12)	8.7/15(17.5)
1	Maximum Voltage system	12kV	17.5kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	27kV	39kV
4	Electrical heat cycling in air/water	15kV	22kV
5	Impulse withstand voltage	75kV	95kV
6	Humidity Test at 300 h	7.5kV	11kV

Test standards

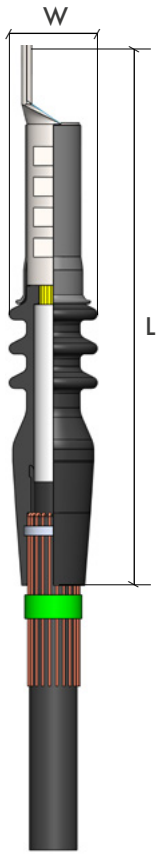
IEC 60502-4,

IEEE 404

CENELEC HD 629.1

Indoor Termination (TI) up to 36 kV

TI is an indoor termination with slip-on body made of high performance silicon rubber applicable for connection between XLPE insulated Cable to air insulated switchgear or transformers up to 36 kV. Applicable to work using Compression or Mechanical Connector



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Termination Size	Workable Range	Total Length (L)	Termination Width (W)
12/20(24)kv	120	12,95	24	TI 36-Size No 3	24.0-28.0 mm	420 mm	76.8 mm
	150	14,3	25,3			430 mm	76.8 mm
	185	15,9	26,9	TI 36-Size No 4	27.5-32.0mm	431 mm	76.8 mm
	240	18,4	29,4			431 mm	76.8 mm
	300	20,5	31,5	TI 36-Size No 5	31.5-36.0 mm	443 mm	76.8 mm
	400	24	35			456 mm	84 mm
18/30(36)kv	50	8,12	26,12	TI 36-Size No 3	24.0-28.0 mm	402 mm	76.8 mm
	70	9,7	27,7			402 mm	76.8 mm
	95	11,55	29,55	TI 36-Size No 4	27.5-32.0mm	415 mm	76.8 mm
	120	12,95	30,95			420 mm	76.8 mm
	150	14,3	32,3	TI 36-Size No 5	31.5-36.0 mm	430 mm	84 mm
	185	15,9	33,9			431 mm	84 mm
	240	18,4	36,4	TI 36-Size No 6	36.0-41.5 mm	431 mm	84 mm
	300	20,5	38,5			443 mm	84 mm
	400	24	42	TI 36-Size No 7	41.0-47.0 mm	456 mm	92.6 mm
	500	27	45	TI 36-Size No 7	41.0-47.0 mm	462 mm	92.6 mm
	630	31	49	TI 36-Size No 8	46.5-54 mm	470 mm	92.6 mm

Characteristics

Wide cross-section range: suitable for cables from 50 mm^2 to 800 mm^2

Silicone slip-on components for quick, safe, and easy assembly

One-piece design with integrated geometric stress control system

Ready for immediate operation

Long creepage distance thanks to optimized shed arrangement

Compatible with various types of cable lugs

Application/ Suitability

Indoor panels

Air insulated switch gear or transformer

Storage conditions/Shelf life

Long Life time in Extreme temperature conditions

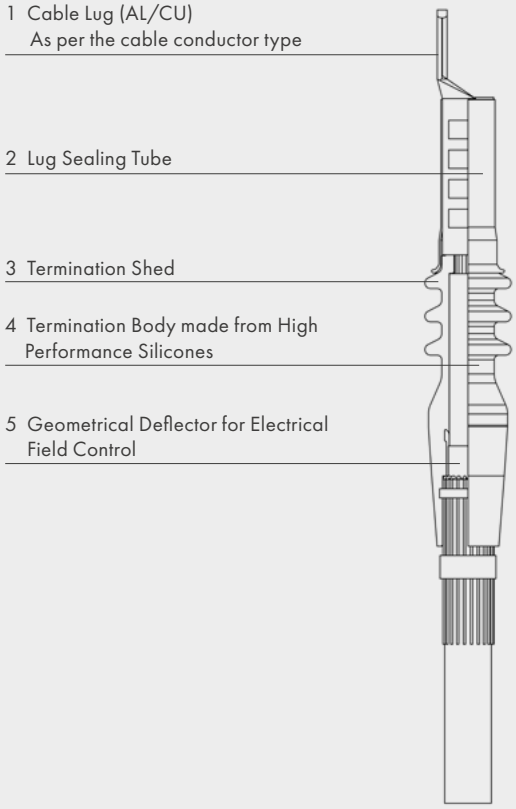
Voltage level

U0 /U (U_m) 12/20 (24) kV - 18/30 (36) kV

Scope of Delivery

One-piece slip-on silicone cable terminations with geometry stress control element, sealing tape, assembly instructions, compression or mechanical cable lugs, earthing kit, anti-tracking tube, trifurcating boot, traceability ID marker, silicone grease, and straight boot

Main Components



Electrical Properties:

		12/20(24)	18/30(36)
1	Maximum Voltage system	24kV	36kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	54kV	81kV
4	Electrical heat cycling in air/water	30kV	45kV
5	Impulse withstand voltage	125kV	170kV
6	Humidity Test at 300 h	15kV	22.5kV

Test standards

IEC 60502-4,

IEEE 404

CENELEC HD 629.1

BAHRA ELECTRIC

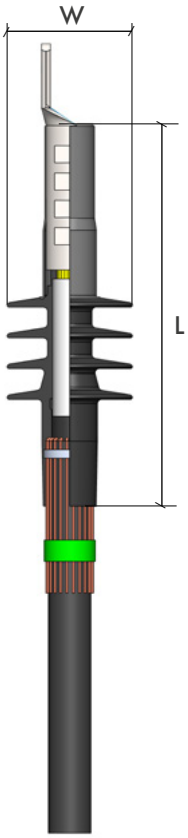
Outdoor Termination Element

Outdoor termination (TO) up to 17.5kv

Outdoor termination (TO) up to 36kv

Outdoor Termination (TO) up to 17.5kv

TO is an Outdoor termination with slip-on body made of high performance silicon rubber applicable for connection between XLPE insulated Cable to overhead link and other outdoor application up to 17.5kv. Applicable to work using Compression or Mechanical Connector



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Termination Size	Workable Range	Total Length (L)	Termination Width (W)
6/10(12)kv	95	11,55	18,35	TO 17.5-Size No 1	18.0-21.0 mm	359 mm	129.3 mm
	120	12,95	19,75			364 mm	129.3 mm
	150	14,3	21,1	TO 17.5-Size No2	20.5-24 mm	374 mm	129.3mm
	185	15,9	22,7			375 mm	129.3 mm
	240	18,4	25,2	TO 17.5-Size No3	24.0-28.0 mm	375 mm	135.2 mm
	300	20,5	27,3			387 mm	135.2 mm
	400	24	30,8	TO 17.5-Size No4	27.5-32.0 mm	400 mm	135.2 mm
8.7/15(17.5)kv	50	8	17	TO 17.5-Size No 1	18.0-21.0 mm	346 mm	129.3mm
	70	9,7	18,7			346 mm	129.3 mm
	95	11,55	20,55	TO 17.5-Size No 2	20.5-24 mm	359 mm	129.3mm
	120	12,95	21,95			364 mm	129.3 mm
	150	14,3	23,3	TO 17.5-Size No 3	24.0-28.0 mm	374 mm	135.2 mm
	185	15,9	24,9			375 mm	135.2 mm
	240	18,4	27,4	TO 17.5-Size No 4	27.5-32.0 mm	375 mm	135.2mm
	300	20,5	29,5			387 mm	135.2 mm
	400	24	33	TO 17.5-Size No 5	31.5-36.5 mm	400 mm	142.4 mm
	500	27	36	TO 17.5-Size No 6	36-41.5 mm	406 mm	142.4mm
	630	31	40	TO 17.5-Size No 7	39-46 mm	410 mm	146.6 mm

Characteristics

Wide cross-section range: suitable for cables from 50 mm² to 800 mm²

Silicone slip-on components for quick, safe, and easy assembly

One-piece design with integrated geometric stress control system

Ready for immediate operation

Short body long creepage distance by optimized shed arrangement

Use of various cable lug types

Application/ Suitability

Outdoor application

Air insulated switch gear or transformer

Storage conditions/Shelf life

Long Life time in Extreme temperature conditions

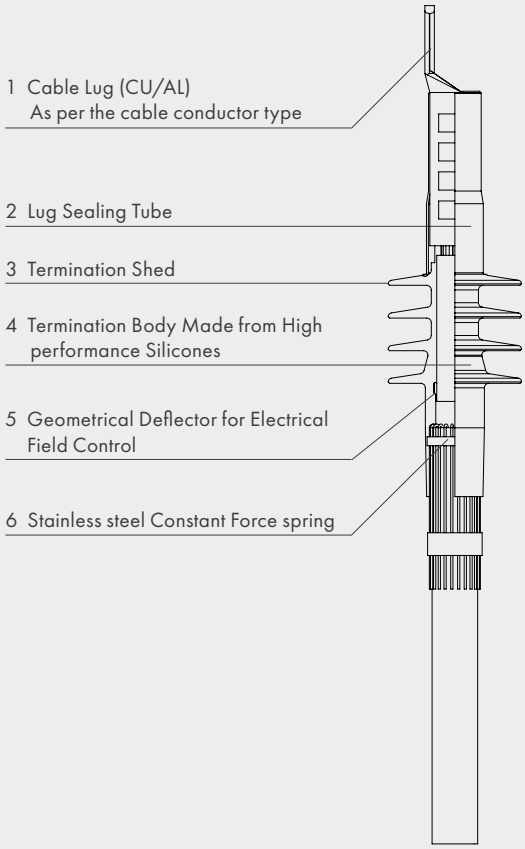
Voltage level

U0 /U (U_m) 6/10 (12) kV - 8.7/15 (17.5) kV

Scope of Delivery

One-piece slip-on silicone cable terminations with geometry stress control element, sealing tape, assembly instructions, compression or mechanical cable lugs, earthing kit, anti-tracking tube, trifurcating boot, traceability ID marker, silicone grease.

Main Components



Electrical Properties:

		6/10(12)	8.7/15(17.5)
1	Maximum Voltage system	12kV	17.5kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	27kV	39kV
4	Electrical heat cycling in air/water	15kV	27kV
5	Impulse withstand voltage	75kV	95kV
6	Salt Fog Test at 1000h	7.5kV	11kV

Test standards

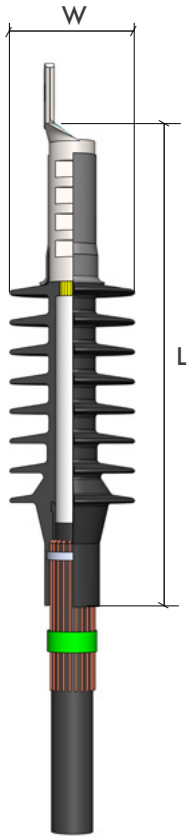
IEC 60502-4,

IEEE 404

CENELEC HD 629.1

Outdoor Termination (TO) up to 36kv

TO is an Outdoor termination with slip-on body made of high performance silicon rubber applicable for connection between XLPE insulated Cable to overhead link and other outdoor application up to 36kv. Applicable to work using Compression or Mechanical Connector



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Termination Size	Workable Range	Total Length (L)	Termination Width (W)
12/20(24)kv	120	12,95	24	TO36-Size No 3	24.0-28.0 mm	500 mm	135.2 mm
	150	14,3	25,3			510 mm	135.2 mm
	185	15,9	26,9	TO 36-Size No 4	27.5-32.0mm	511 mm	135.2 mm
	240	18,4	29,4			511 mm	135.2 mm
	300	20,5	31,5	TO 36-Size No 5	31.5-36.0 mm	523 mm	135.2 mm
	400	24	35			536 mm	142.4 mm
18/30(36)kv	50	8,12	26,12	TO 36-Size No 3	24.0-28.0 mm	482 mm	135.2mm
	70	9,7	27,7			482 mm	135.2 mm
	95	11,55	29,55	TO 36-Size No 4	27.5-32.0mm	495 mm	135.2mm
	120	12,95	30,95			500 mm	135.2mm
	150	14,3	32,3	TO 36-Size No 5	31.5-36.0 mm	510 mm	142.4 mm
	185	15,9	33,9			511 mm	142.4 mm
	240	18,4	36,4	TO 36-Size No 6	36.0-41.5 mm	511 mm	142.4 mm
	300	20,5	38,5			523 mm	142.4 mm
	400	24	42	TO 36-Size No 7	41.0-47.0 mm	536 mm	151 mm
	500	27	45	TO 36-Size No 7	41.0-47.0 mm	542 mm	151 mm
	630	31	49	TO 36-Size No 8	46.5-54 mm	552 mm	151 mm

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Characteristics

Wide cross-section range: suitable for cables from 50 mm^2 to 800 mm^2

Silicone slip-on components for quick, safe, and easy assembly

One-piece design with integrated geometric stress control system

Ready for immediate operation

Short body long creepage distance by optimized shed arrangement

Use of various cable lug types

Application/ Suitability

Outdoor application

Air insulated switch gear or transformer

Storage conditions/Shelf life

Long Life time in Extreme temperature conditions

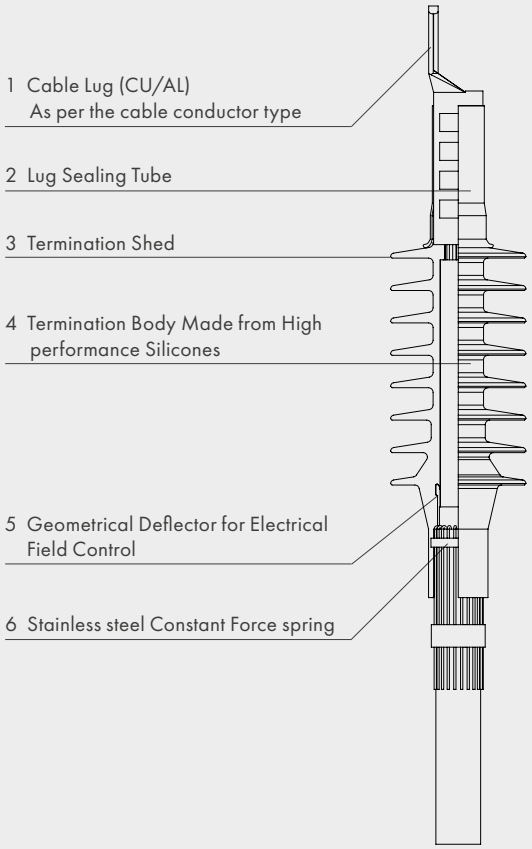
Voltage level

U0 /U (U_m) 12/20 (24) kV - 18/30 (36) kV

Scope of Delivery

One-piece slip-on silicone cable terminations with geometry stress control element, sealing tape, assembly material, assembly instructions, compression or mechanical cable lugs, earthing kit, anti-tracking tube, trifurcating boot, traceability ID marker, silicone grease.

Main Components



Electrical Properties:

		12/20(24)	18/30(36)
1	Maximum Voltage system	24kV	36kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	54kV	81kV
4	Electrical heat cycling in air/water	30kV	45kV
5	Impulse withstand voltage	125kV	170kV
6	Salt Fog Test at 1000h	15kV	22.5kV

Test standards

IEC 60502-4,

IEEE 404

CENELEC HD 629.1

BAHRA ELECTRIC

MV separable Elbow Element

Elbow Connector (T-Body) (ETS) up to 17.5kv 630-A

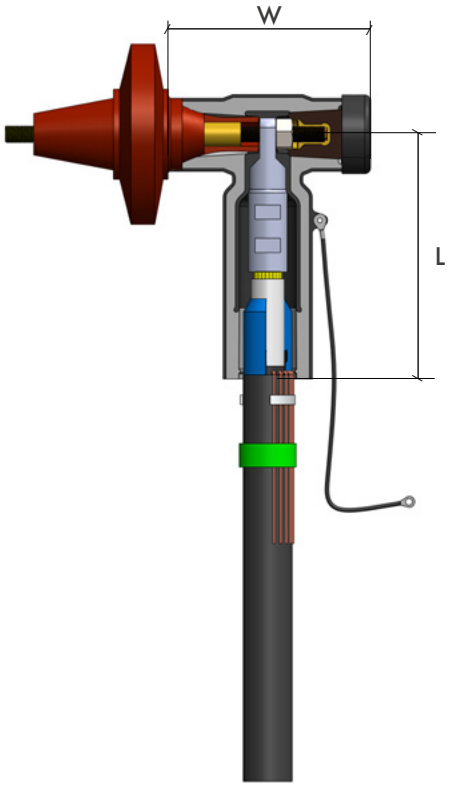
Elbow Connector (T-Body) (ETS) up to 17.5kv 1250-A

Elbow Connector (T-Body) (ETS) up to 36kv 630-A

Elbow Connector (T-Body) (ETS) up to 36kv 1250-A

MV separable Elbow –Type Connector (T-Body) (ETS) up to 17.5kv 630-A

MV Elbow Separable Connector made of silicon Rubber with T-shaped construction to terminate medium-voltage power cables on the primary side of the pad-mounted transformers including unit substation and RMUs with Type C bushing conforming to EN50180and EN50181



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Elbow Housing Size	Adaptor Size	Workable Range	Total Length (W)
6/10(12)kv	95	11,55	18,35	ETS 17.5kv-Type A	Size No 1	18.0-21.0 mm	226 mm
	120	12,95	19,75				
	150	14,3	21,1		Size No 2	20.5-24.0 mm	
	185	15,9	22,7				
	240	18,4	25,2		Size No 3	24.0-28.0 mm	
	300	20,5	27,3				
	400	24	30,8	ETS 17.5kv-Type B	Size No 4	27.5-32.0 M	262 mm
8.7/15(17.5)kv	70	9,7	18,7	ETS 17.5kv-Type A	Size No 1	18.0-21.0 mm	226 mm
	95	11,55	20,55				
	120	12,95	21,95		Size No 2	20.5-24.0 mm	
	150	14,3	23,3				
	185	15,9	24,9		Size No 3	24.0-28.0 mm	
	240	18,4	27,4				
	300	20,5	29,5	ETS 17.5kv-Type B	Size No 4	27.5-32.0 M	262 mm
	400	24	33		Size No 5	31.5-36.5 mm	
	500	27	37,5		Size No 6	36.0-41.5mm	
	630	31	42	ETS 17.5kv-Type C	Size No 7	41.0-47.0 mm	257 mm

Characteristics

With fully shielded outer layer

Require No special tools for installation

Premolded with outer shielded thickness 3 mm

Applicable for Aluminum and copper conductor

Elbow connector with bolt that meet all the requirements of IEEE386

Tested individually

With Compression OR Mechanical connector as per customer request

Application/ Suitability

Outdoor application

Air insulated switch gear or transformer

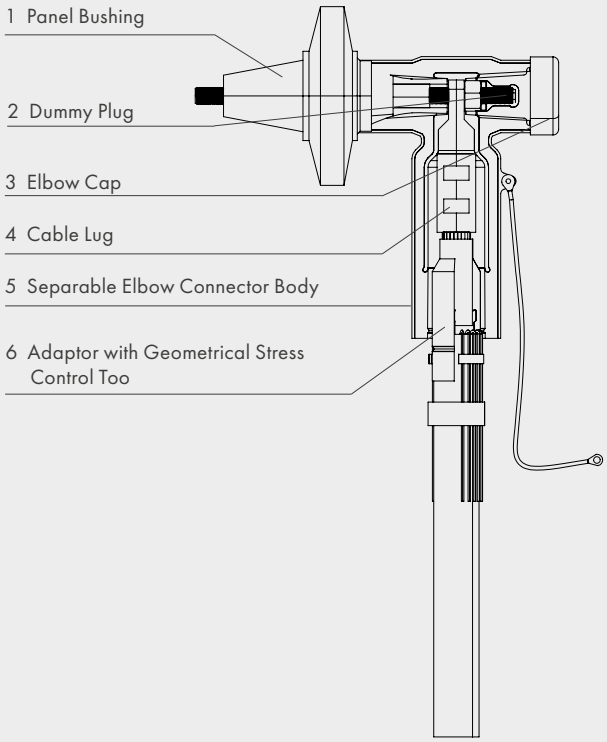
Storage conditions/Shelf life

Long Life time in Extreme temperature conditions

Voltage level

U0 /U (U_m) 6/10 (12) kV - 8.7/15 (17.5) kv

Main Components



Electrical Properties:

		6/10(12)	8.7/15(17.5)
1	Maximum Voltage system	12kV	17.5kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	27kV	39kV
4	Electrical heat cycling in air/water	15kV	22kV
5	Impulse withstand voltage	75kV	95kV

Test standards

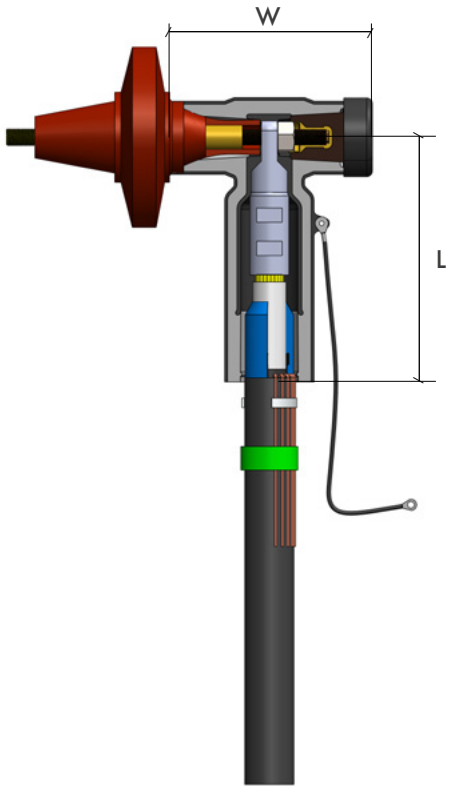
IEC 60502-4,

IEEE 404

CENELEC HD 629.1

MV separable Elbow –Type Connector (T-Body) (ETS) up to 17.5kv 1250-A

MV Elbow Separable Connector made of silicon Rubber with T-shaped construction to terminate medium-voltage power cables on the primary side of the pad-mounted transformers including unit substation and RMUs with Type C bushing conforming to EN50180and EN50181



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Elbow Housing Size	Adaptor Size	Workable Range	Total Length (W)
6/10(12)kv	95	11,55	18,35	ETS 17.5kv-Type A	Size No 1	18.0-21.0 mm	226 mm
	120	12,95	19,75				
	150	14,3	21,1		Size No 2	20.5-24.0 mm	
	185	15,9	22,7				
	240	18,4	25,2		Size No 3	24.0-28.0 mm	
	300	20,5	27,3				
	400	24	30,8	ETS 17.5kv-Type B	Size No 4	27.5-32.0 M	262 mm
8.7/15(17.5)kv	70	9,7	18,7	ETS 17.5kv-Type A	Size No 1	18.0-21.0 mm	226 mm
	95	11,55	20,55				
	120	12,95	21,95		Size No 2	20.5-24.0 mm	
	150	14,3	23,3				
	185	15,9	24,9		Size No 3	24.0-28.0 mm	
	240	18,4	27,4				
	300	20,5	29,5	ETS 17.5kv-Type B	Size No 4	27.5-32.0 M	262 mm
	400	24	33		Size No 5	31.5-36.5 mm	
	500	27	37,5		Size No 6	36.0-41.5mm	
	630	31	42	ETS 17.5kv-Type C	Size No 7	41.0-47.0 mm	257 mm

Characteristics

With fully shielded outer layer

Require No special tools for installation

Premolded with outer shielded thickness 3 mm

Applicable for Aluminum and copper conductor

Elbow connector with bolt that meet all the requirements of IEEE386

Tested individually

With Compression OR Mechanical connector as per customer request

Application/ Suitability

Outdoor application

Air insulated switch gear or transformer

Storage conditions/Shelf life

Long Life time in Extreme temperature conditions

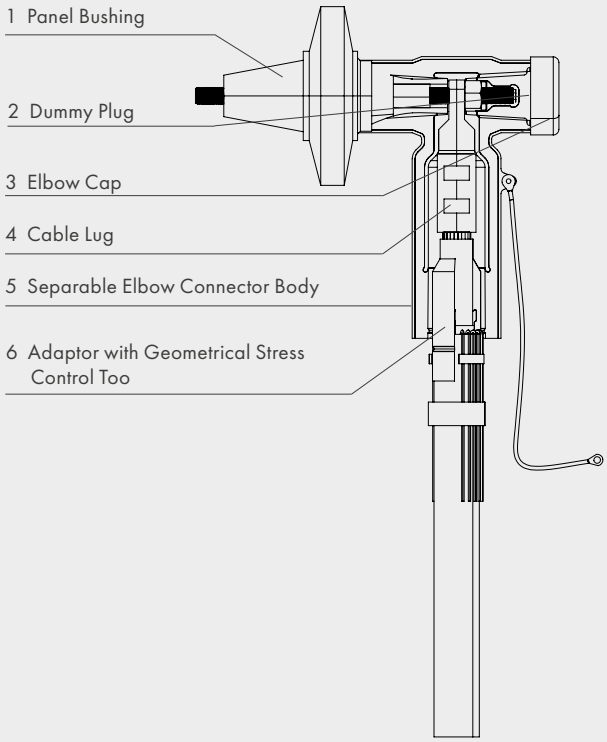
Voltage level

U0 /U (U_m) 6/10 (12) kV - 8,7/15 (17,5) kV

Scope of Delivery

Full shielded connectors made from silicon material , earthing set, screw stud, Cap, Epoxy plug cable lug for main conductor, accessories material ,assembly instructions

Main Components



Electrical Properties:

		6/10(12)	8.7/15(17.5)
1	Maximum Voltage system	12kV	17.5kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	27kV	39kV
4	Electrical heat cycling in air/water	15kV	22kV
5	Impulse withstand voltage	75kV	95kV

Test standards

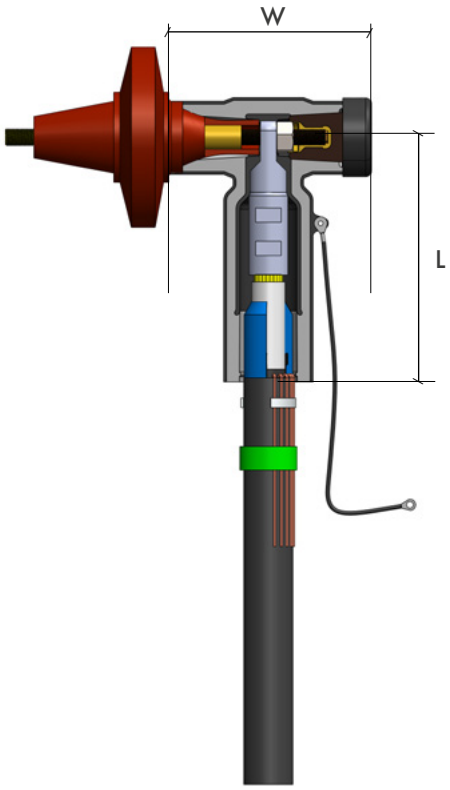
IEC 60502-4,

IEEE 404

CENELEC HD 629.1

MV separable Elbow –Type Connector (T-Body) (ETS) up to 36kv 630-A

MV Elbow Separable Connector made of silicon Rubber with T-shaped construction to terminate medium-voltage power cables on the primary side of the pad-mounted transformers including unit substation and RMUs with Type C bushing conforming to EN50180and EN50181



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Elbow Housing Size	Adaptor Size	Workable Range	Total Length (W)
12/20(24)kv	120	12,95	24	ETS 36kv Type A	Adaptor Size No 3	24.0-28.0 mm	220 mm
	150	14,3	25,3				
	185	15,9	26,9				
	240	18,4	29,4	ETS 36kv Type B	Adaptor Size No 4	27.5-32.0 mm	272 mm
	300	20,5	31,5				
	400	24	35		Adaptor Size No 5	31.5-36.5 mm	
18/30(36)kv	50	8,12	26,12	ETS 36kv Type A	Adaptor Size No 3	24.0-28.0 mm	220 mm
	70	9,7	27,7				
	95	11,55	29,55	ETS 36kv Type B	Adaptor Size No 4	27.5-32.0 mm	272 mm
	120	12,95	30,95				
	150	14,3	32,3		Adaptor Size No 5	31.5-36.5 mm	
	185	15,9	33,9				
	240	18,4	37		Adaptor Size No 6	36.0-41.5 mm	
	300	20,5	38,5				
	400	24	42	ETS 36kv Type C	Adaptor Size No 7	41.0-47.0 mm	277 mm
	500	27	45				
	630	31	49		Adaptor Size No 8	46.5-54.0 mm	

Characteristics

With fully shielded outer layer

Require No special tools for installation

Premolded with outer shielded thickness 3 mm

Applicable for Aluminum and copper conductor

Elbow connector with bolt that meet all the requirements of IEEE386

Tested individually

With Compression OR Mechanical connector as per customer request

Application/ Suitability

Outdoor application

Air insulated switch gear or transformer

Storage conditions/Shelf life

Long Life time in Extreme temperature conditions

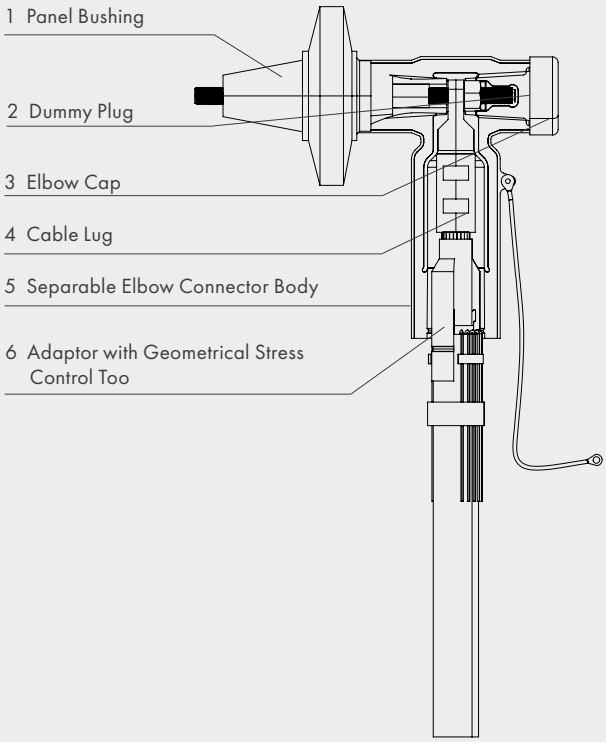
Voltage level

U0 /U (U_m) 6/10 (12) kV - 18/30 (36) kV

Scope of Delivery

Full shielded connectors made from silicon material, earthing set, screw stud, Cap, Epoxy, plug cable lug for main conductor, accessories material ,assembly instructions

Main Components



Electrical Properties:

		12/20(24)	18/30(36)
1	Maximum Voltage system	24kV	36kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	54kV	81kV
4	Electrical heat cycling in air/water	30kV	45kV
5	Impulse withstand voltage	125kV	170kV

Test standards

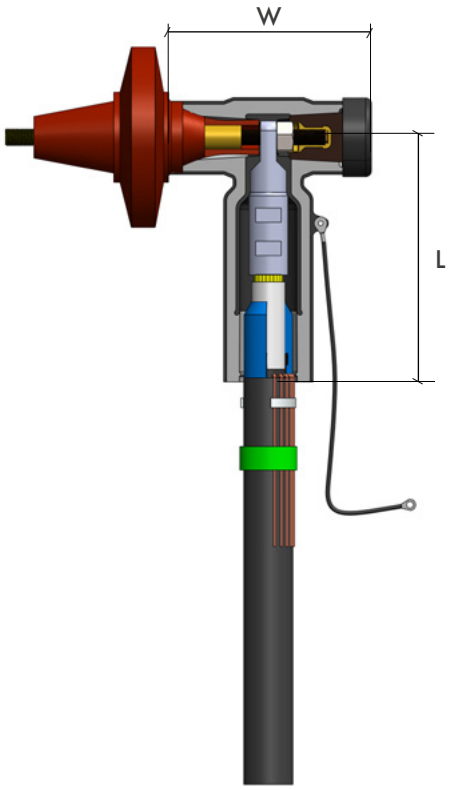
IEC 60502-4,

IEEE 404

CENELEC HD 629.1

MV separable Elbow –Type Connector (T-Body) (ETS) up to 36kv 1250-A

MV Elbow Separable Connector made of silicon Rubber with T-shaped construction to terminate medium-voltage power cables on the primary side of the pad-mounted transformers including unit substation and RMUs with Type C bushing conforming to EN50180and EN50181



Voltage Class (Uo/U)-(Um)	Cable C.S.A	Conductor Diameter (AL/CU)	Diameter over insulation	Elbow Housing Size	Adaptor Size	Workable Range	Total Length (W)
12/20(24)kv	120	12,95	24	ETS 36kv Type A	Adaptor Size No 3	24.0-28.0 mm	220 mm
	150	14,3	25,3				
	185	15,9	26,9				
	240	18,4	29,4	ETS 36kv Type B	Adaptor Size No 4	27.5-32.0 mm	272 mm
	300	20,5	31,5				
	400	24	35		Adaptor Size No 5	31.5-36.5 mm	
18/30(36)kv	50	8,12	26,12	ETS 36kv Type A	Adaptor Size No 3	24.0-28.0 mm	220 mm
	70	9,7	27,7				
	95	11,55	29,55	ETS 36kv Type B	Adaptor Size No 4	27.5-32.0 mm	272 mm
	120	12,95	30,95				
	150	14,3	32,3		Adaptor Size No 5	31.5-36.5 mm	
	185	15,9	33,9				
	240	18,4	37		Adaptor Size No 6	36.0-41.5 mm	
	300	20,5	38,5				
	400	24	42	ETS 36kv Type C	Adaptor Size No 7	41.0-47.0 mm	277 mm
	500	27	45				
	630	31	49		Adaptor Size No 8	46.5-54.0 mm	

Characteristics

With fully shielded outer layer

Require No special tools for installation

Premolded with outer shielded thickness 3 mm

Applicable for Aluminum and copper conductor

Connector with bolt that meet all the requirements of IEEE386

Tested individually

With Compression OR Mechanical connector as per customer request

Application/ Suitability

Outdoor application

Air insulated switch gear or transformer

Storage conditions/Shelf life

Long Life time in Extreme temperature conditions

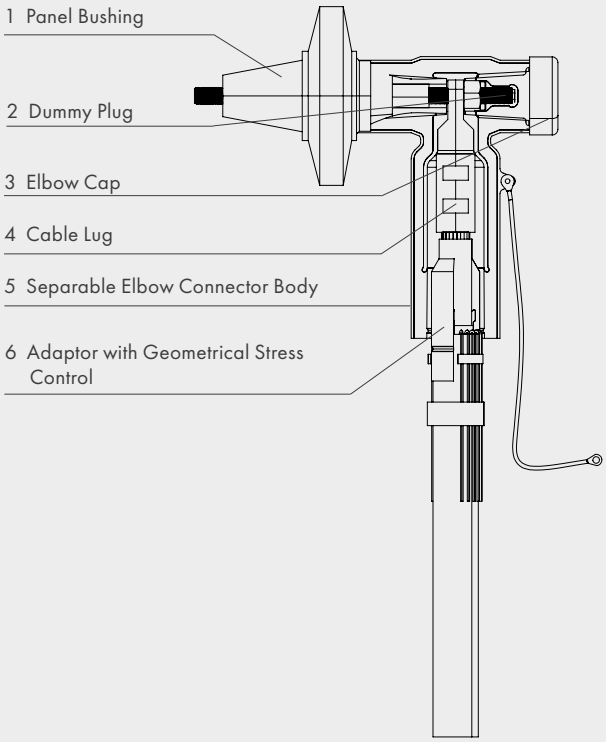
Voltage level

U0 /U (U_m) 12/20 (24) kV - 18/30 (36) kV

Scope of Delivery

Full shielded connectors made from silicon material , earthing set, screw stud, Cap, Epoxy plug cable lug for main conductor, accessories material ,assembly instructions

Main Components



Electrical Properties:

		12/20(24)	18/30(36)
1	Maximum Voltage system	24kV	36kV
2	Partial Discharge at 2Uo	< 5 pC	< 5 pC
3	Alternating withstand voltage (AC, 5 min.) at Dry condition	54kV	81kV
4	Electrical heat cycling in air/water	30kV	45kV
5	Impulse withstand voltage	125kV	170kV

Test standards

IEC 60502-4,

IEEE 404

CENELEC HD 629.1

Note

Note



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05 Pre Cast Factory for Concrete
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