

Cable termination, indoor and outdoor, premolded SOT 12-36 kV

Use

Premolded termination for XLPE-insulated cables 1- or 3-core with Al or Cu conductors for 12-36 kV. The indoor termination can also be installed in a humid indoor environment.

Standard

Meets the requirements of:

- CENELEC, HD 629.1 S1
- IEEE 48 1996*

Design

Premolded cable termination made of silicone rubber with integrated field control and top sealing. The outdoor variant has permanent sheds which give a prolonged creepage distance.

The terminations are supplied in kits for 1- or 3-phase cables.

Kits with outdoor terminations for 3-core cables include branch seal and protective heat shrink hoses.



SOT 1- and 3-core indoor.

SOT 1- and 3-core outdoor.

Conductor cross section			XLPE-Ø	Designation	Weight	Designation	Weight
12 kV	24 kV	36 kV					
mm ²			mm				
Indoor terminations incl. branch seal for 3-core							
10-35	10	-	11-15	SOT 241A-3C	0.9	-	-
50-95	25-50	-	15-28	SOT 241-3C	0.9	-	-
120-185	70-120	-	15-28	SOT 241-3D	1.3	-	-
240-400	150-400	-	24-39	SOT 242-3D	1.4	-	-
				Indoor termination 3-core / 3 x 1-core		Indoor termination 1-phase kit	
10-35	10	-	11-15	SOT 241 A-3	0.60	SOT 241 A	0.20
50-185	25-120	-	15-28	SOT 241-3	0.60	SOT 241	0.19
240-500	150-400	-	24-39	SOT 242-3	0.70	SOT 242	0.23
630**	500-630**	-	38-54	SOT 242 B-3	0.90	SOT 242 B	0.30
				Outdoor termination incl. crutch seal for 3-core		Outdoor termination 1-phase kit	
10-35	10	-	11-15	SOT 243 A-3	1.90	SOT 243 A	0.31
50-120	25-70	-	15-24	SOT 243-3	1.80	-	-
150-300	95-240	-	22-33	SOT 244-3	2.00	-	-
400-500	300-400	-	31-40	SOT 245-3	2.50	-	-
				Outdoor termination 3 x 1-core		Outdoor termination 1-phase kit	
50-120	25-70	-	15-24	SOT 243-31	0.80	SOT 243	0.27
150-300	95-240	-	22-33	SOT 244-31	0.90	SOT 244	0.30
400-500	300-400	-	31-40	SOT 245-31	1.11	SOT 245	0.38
500-630**	500-630**	-	38-54	SOT 246-31	1.50	SOT 246	0.51
				Indoor/outdoor termination 3 x 1-core		Indoor/outdoor termination 1-phase kit	
-	-	95-300	26-39	SOT 361-31	1.40	SOT 361	0.42
-	-	400-630**	38-54	SOT 362-31	1.60	SOT 362	0.52

* The standard is valid for outdoor terminations (SOT 243 A-SOT 246).

**Can be mounted on cables with 800 and 1000 mm², by using silicone rubber tape IA 2342 as top seal, see tapes. For seccing accessories see the following pages.

Kits complete with bolt cable lug

SOT 12-36 kV

Cable termination including a bi-metallic bolt cable lug SKSB for Al and Cu conductors. The cable lug is equipped with shear-off bolts.

Cable cross section			Designation	Weight	Designation	Weight
12 KV	24 KV	36 KV				
mm ²						
			1-core indoor		3 -core / 3 x 1-core indoor	
16-35	16	-	SOT 241A S1	0.35	SOT 241A-3 S1	1.05
50-70	25-70	-	SOT 241 S1	0.34	SOT 241-3 S1	1.02
95-150	95-120	-	SOT 241 S2	0.44	SOT 241-3 S2	1.32
185	-	-	SOT 241 S3	0.59	SOT 241-3 S3	1.50
-	150	-	SOT 242 S2	0.48	SOT 242-3 S2	1.44
240	185-240	-	SOT 242 S3	0.63	SOT 242-3 S3	1.89
300-400	300-400	-	SOT 242 S4	0.98	SOT 242-3 S4	2.94
500-630	500-630	-	SOT 242B S5	0.78	SOT 242B-3 S5	5.25
			1-core outdoor		3-core outdoor	
16-35	16	-	SOT 243A S1	0.46	SOT 243A-3 S1	1.56
50-70	25 - 70	-	SOT 243 S1	0.42	SOT 243-3 S1	1.42
95-120	-	-	SOT 243 S2	0.52	SOT 243-3 S2	1.52
150	95 - 150	-	SOT 244 S2	0.55	SOT 244-3 S2	1.65
185-240	185 - 240	-	SOT 244 S3	0.70	SOT 244-3 S3	1.80
300	-	-	SOT 244 S4	1.05	SOT 244-3 S4	2.15
400	300 - 400	-	SOT 245 S4	1.13	SOT 245-3 S4	2.51
500	-	-	SOT 245 S5	1.83	SOT 245-3 S5	3.15
630	500 - 630	-	SOT 246 S5	1.96	-	-
			3 x 1-core outdoor			
16-35	16	-	SOT 243 A-31 S1	1.38	-	-
50-70	25-70	-	SOT 243-31 S1	1.26	-	-
95-120	-	-	SOT 243-31 S2	1.56	-	-
150	95 - 150	-	SOT 244-31 S2	1.65	-	-
185-240	185 - 240	-	SOT 244-31 S3	2.10	-	-
300	-	-	SOT 244-31 S4	3.15	-	-
400	300 - 400	-	SOT 245-31 S4	3.40	-	-
500	-	-	SOT 245-31 S5	5.50	-	-
630	500 - 630	-	SOT 246-31 S5	5.90	-	-
			1-core indoor/outdoor			
-	-	95-150	SOT 361 S2	0.67	-	-
-	-	185-240	SOT 361 S3	0.82	-	-
-	-	300	SOT 361 S4	1.17	-	-
-	-	400	SOT 362 S4	1.27	-	-
-	-	500 - 630	SOT 362 S5	1.97	-	-
			3 x 1-core indoor/outdoor			
-	-	95-150	SOT 361-31 S2	2.10	-	-
-	-	185-240	SOT 361-31 S3	2.46	-	-
-	-	300	SOT 361-31 S4	3.50	-	-
-	-	400	SOT 362-31 S4	3.80	-	-
-	-	500 - 630	SOT 362-31 S5	5.95	-	-

Premolded cable terminations for 1-core cables with Cu-tape screen SOT 12-36 kV

Use

Premolded cable termination for XLPE-and EPR-insulated cables with Al or Cu conductors and Cu-tape screen for 12-36 kV.

Standard

Meets the requirements of:

- CENELEC HD 629.1 S1
- IEEE 48 1996

Design

Premolded cable termination made of silicone rubber with integrated field control and top sealing.

The outdoor variant has permanent sheds which give a prolonged creepage distance.

The indoor termination can also be installed in a humid indoor environment.

The kits includes copper braids and constant force springs for connection of the copper tape screen to earth.

One kit includes material for three single core ends.



Note:

- Cable lugs have to be ordered separately.

Conductor cross section					Diameter over insulation Ø	Designation	Size of copper braid mm ²
7.5 kV	12 kV	17.5 kV	24 kV	36 kV			
mm ²					mm		
Indoor terminations for three 1-core cables with Cu-tape screen							
16-50	-	-	-	-	10.5-15	SOT 101-3 R	10
70-185	-	-	-	-	12.9-25.8	SOT 102-3 R	10
240-400	-	-	-	-	21.5-34.9	SOT 103-3 S	22
-	16-35	-	-	-	11-15	SOT 241A-3 R	10
-	50-120	25-95	-	-	15-28	SOT 241-3 R	10
-	150-185	120-185	35-120	-	15-28	SOT 241-3 S	22
500-630	240	-	-	-	24-39	SOT 242-3 S	22
-	300-630	240-500	150-400	-	24-39	SOT 242-3 T	22
-	-	-	-	70-185	26-39	SOT 361-3 T	22
-	-	-	-	240-300	26-39	SOT 361-3 U	35
Outdoor terminations for three 1-core cables with Cu-tape screen							
25-50	16-35	-	-	-	11-15	SOT 243A-3 R	10
70-185	50-150	25-120	-	-	15-24	SOT 243-3 R	10
-	-	-	35-70	-	15-24	SOT 243-3 S	22
240-400	185-240	150-185	95-120	-	22-33	SOT 244-3 S	22
-	300-400	240-300	150-240	-	22-33	SOT 244-3 T	22
500-630	500-630	400-500	300-400	-	31-40	SOT 245-3 T	22
-	-	-	-	70-185	26-39	SOT 361-3 T	22
-	-	-	-	240-300	26-39	SOT 361-3 U	35

Cable terminations, Premolded for 3-core cables with Cu-tape screen SOT 12-36 kV

Use

Premolded cable termination for XLPE-insulated cables 3-core with Al or Cu conductors and Cu-tape screen for 12-36 kV.

Standard

Meets the requirements of:

- CENELEC HD 629.1 S1
- IEEE 48 1996

Design

Premolded cable termination made of silicone rubber with integrated field control and top sealing.

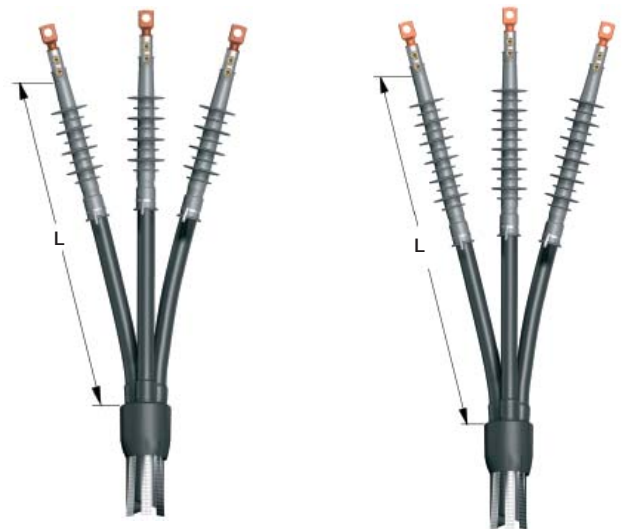
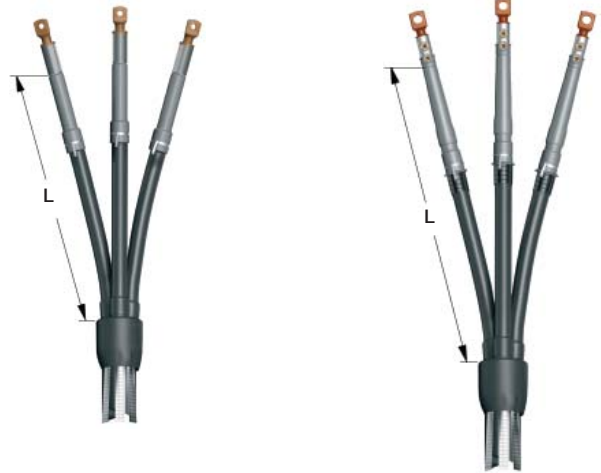
The outdoor variant has permanent sheds which give a prolonged creepage distance. The indoor termination can also be installed in a humid indoor environment.

The kits includes copper braids and constant force springs for connection of the copper tape screen to earth.

The kits also include branch seal and protective hoses of heat shrink type.

Note:

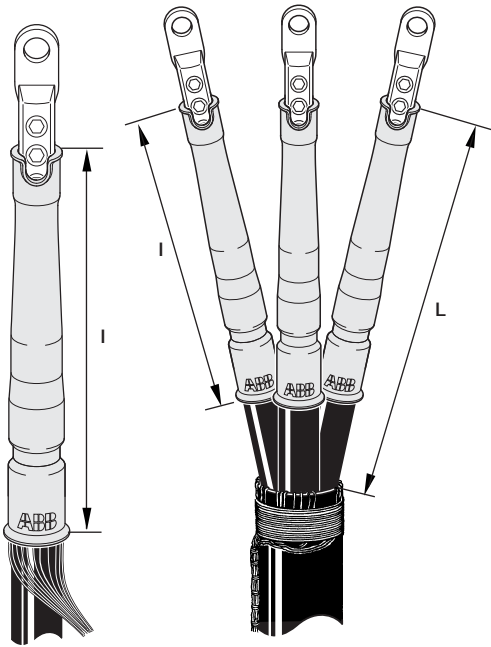
- Cable lugs have to be ordered separately.



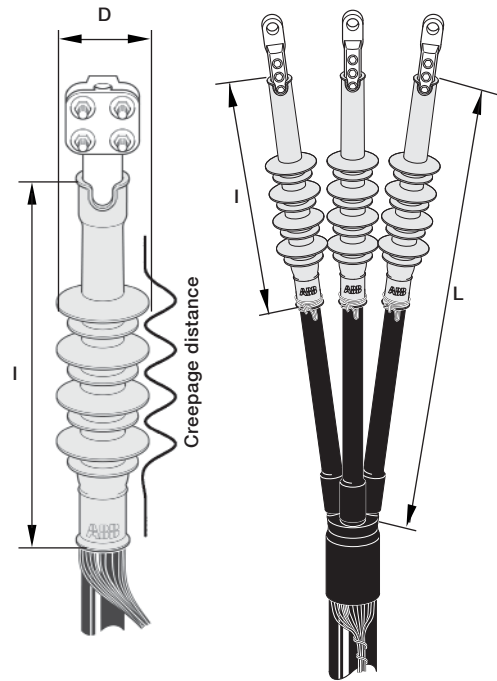
Conductor cross section					Diameter over insulation	Designation	Size of copper braid
7.5 kV	12 kV	17.5 kV	24 kV	36 kV	Ø		mm ²
					mm		
Indoor terminations for 3-core cables with Cu-tape screen							
16-50	-	-	-	-	10.5-15	SOT 101-3 RC	3 x 10
70	-	-	-	-	12.9-25.8	SOT 102-3 RC	3 x 10
95-185	-	-	-	-	12.9-25.8	SOT 102-3 RD	3 x 22
240-400	-	-	-	-	21.4-34.9	SOT 103-3 SD	3 x 22
-	16-35	-	-	-	11-15	SOT 241A-3 RC	3 x 10
-	50	25-35	-	-	15-28	SOT 241-3 RC	3 x 10
-	70-120	50-95	-	-	15-28	SOT 241-3 RD	3 x 10
-	150-185	120-150	35-120	-	15-28	SOT 241-3 SD	3 x 22
-	240	185	-	-	24-39	SOT 242-3 SD	3 x 22
-	300-400	240-400	150-400	-	24-39	SOT 242-3 TD	3 x 22
-	-	-	-	70-185	26-39	SOT 361-3 TB	3 x 22
-	-	-	-	240-300	26-39	SOT 361-3 UB	3 x 35
Outdoor terminations for 3-core cables with Cu-tape screen							
25-50	16-35	-	-	-	11-15	SOT 243A-3 RA	3 x 10
70	50	25-35	-	-	15-24	SOT 243-3 RA	3 x 10
95-185	70-150	50-120	-	-	15-24	SOT 243-3 RB	3 x 10
-	-	-	35-70	-	15-24	SOT 243-3 SB	3 x 22
240-400	185-240	150-185	95-120	-	22-33	SOT 244-3 SB	3 x 22
-	300-400	240-400	150-400	-	25-33	SOT 244-3 TB	3 x 22
-	-	-	300-400	-	31-40	SOT 245-3 TB	3 x 22
-	-	-	-	70-185	26-39	SOT 361-3 TB	3 x 22
-	-	-	-	240-300	26-39	SOT 361-3 UB	3 x 35

Dimensional drawings and accessories

SOT 12-36 kV



SOT, indoor



SOT, outdoor

Designation	I	L	D	Creepage distance
	mm			
SOT 241/242/242 B	235	min 300	–	–
SOT 243/244/245	330	min 430	70/75/80	min 520
SOT 246/361/362	390	min 500	80/85	min 725

To be ordered separately

Designation	Description	See page
SKSA, SKSB, SCL-B	Cable lug	70
UKR	Universal clamp for fastening cable to a pole, etc.	120
JSA, JXT	Earthing kits when the cable does not have a Cu wire screen	66
FK	Overhead line clamp	69
PSSK	Screen separation kit (indoor)	64