

Medium voltage solutions

Joints and terminations for up to 42kV



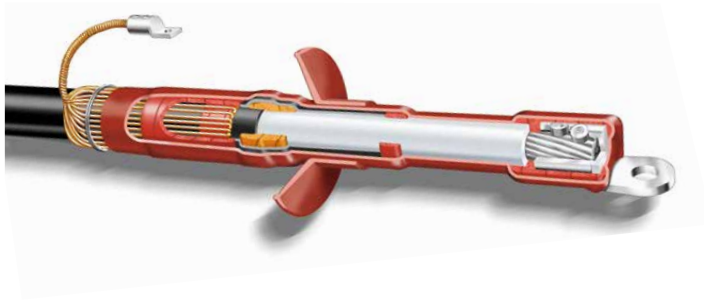
An underground cable network is relatively maintenance free and has a long service life. Ensto's solutions for underground distribution networks offer functional and reliable medium voltage accessories with both heat and cold shrink technologies. Moreover, our hybrid joints and terminations are an effective and durable combination of both technologies. The products have been tested according to international standards. Clear installation instructions help in achieving a uniform and reliable end result.

Heat shrink accessories

Ensto heat shrink products cover 12-36kV indoor and outdoor terminations and joints. The selection includes separate accessories for both plastic and pa-

per insulated cables and for transition joints. The packages contain all components required in a cable termination or joint. The stress control tube and the insulating sleeve are combined in the

joints. This reduces the number of components and makes installation work quicker.

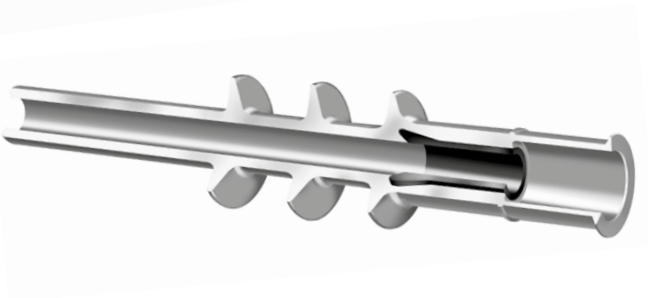
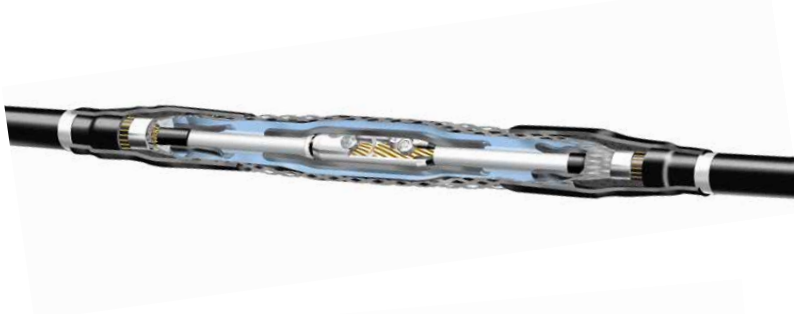


Cold shrink and hybrid accessories

Cold shrink accessories enable working in places where hot work permits are difficult to obtain or where hot work is otherwise not possible. E.g. oil refineries, many chemical plants and other industrial facilities tend to favour work methods that do not require hot work.

The hybrid joints, on the other hand, are a carefully selected combination of cold and heat shrink components that together ensure a durable joint. Ensto's hybrid joints, cold shrink terminations and separable connectors have multiple uses and a wide range of applications can be covered fully with only

a small number of products. The installation work is fast because there are only a few work steps. The packages contain all components required in terminating or jointing cables.



Cable joints

- › Dual layer stress control technology in 24kV solutions.
- › Packages available both with and without connectors.

Terminations

- › Easily shrinkable stress control tube.
- › Reliable, conventional structure.
- › Stress control using a separate tube for good and uniform shrinkage – especially in tight spaces.

Cable joints

- › Spiral technology: quick and easy to install.
- › Cold shrink and hybrid joints.
- › All-in-one joints.

Cable terminations

- › One termination tube combining stress control, rainsheds and antitracking tube.
- › Spiral technology.
- › Ready for use right after the installation.
- › Indoor and outdoor terminations.

Screened Separable Connectors

- › For installing plastic cables (12 and 24kV) for transformers, motors, and especially SF6 switchgears both indoors and outdoors.
- › Installation is quick and easy.

Product assortment »





Cold shrink cable terminations

CIT1 indoor termination kits 1 core XLPE with Cu wire shield

The termination kit is used for indoor terminating of XLPE insulated medium voltage cables with wire shield. The kit is suitable for single core cables, containing components for three cores.



Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
24 kV with cable lugs (Al/Cu)							
CIT1.2402L	6438100301132	35-95	10-95	265	62	3	13,8
CIT1.2403L	6438100300524	70-240	70-240	270	62	3	18,4
CIT1.2404L	6438100302856	240-300	185-300	310	62	3	25,3
CIT1.24045L	6438100326067	185-400	185-400	370	62	3	31
CIT1.2405L	6438100304744	185-400	400-630	370	62	3	31
CIT1.2406L	6438100312329	630-1000	630-1000	370	62	3	36,8
Additional core sheathing kits							
STE16	6438100306588	70-240	70-240				

Product code	GTIN	Conductor size mm ² 36 kV	Conductor size mm ² 42 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
42kV with cable lugs (Al/Cu)							
CIT1.4202L	6438100304805	10-95	10-95	350	100	3	18,4
CIT1.4203L	6438100300500	70-240	70-240	390	100	3	25,3
CIT1.4204L	6438100304812	185-300	185-300	450	100	3	31
CIT1.42045L	6438100326074	185-400	185-400	150	100	3	31
CIT1.4205L	6438100304829	400-630	400-630	450	100	3	31
CIT1.4206L	6438100312381	630-1000	630-1000	450	100	3	36,8

COT1 outdoor termination kits 1 core XLPE with Cu wire shield

The termination kit is used for outdoor terminating of XLPE insulated medium voltage cables with wire shield. The kit is suitable for single core cables, containing components for three cores.



Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
24 kV with cable lugs (Al/Cu)							
COT1.2402L	6438100301118	35-95	10-95	345	100	3	13,8
COT1.2403L	6438100300463	95-240	70-240	350	100	3	18,4
COT1.2404L	6438100302917	240-300	185-300	390	100	3	25,3
COT1.24045L	6438100326081	240-400	185-400	390	100	3	25,3
COT1.2405L	6438100304751	400-630	400-630	450	100	3	31,1
COT1.2406L	6438100312336	630-1000	630-1000	520	100	3	36,8
Additional core sheathing kits							
STE16	6438100306588	70-240	70-240				

Product code	GTIN	Conductor size mm ² 36 kV	Conductor size mm ² 42 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
42 kV with cable lugs (Al/Cu)							
COT1.4202L	6438100304874	10-95	10-95	620	100	6	18,4
COT1.4203L	6438100300432	70-240	70-240	750	100	6	25,3
COT1.4204L	6438100304881	185-300	185-300	800	100	6	31
COT1.42045L	6438100326098	185-400	185-400	800	100	6	31
COT1.4205L	6438100304898	400-630	400-630	800	100	6	31
COT1.4206L	6438100312398	630-1000	630-1000	800	100	6	36,8



Medium voltage cable accessories

Cold shrink cable terminations

CIT1-ALS indoor termination kits 1 core XLPE with Al tape shield

The termination kit is used for indoor terminating of XLPE insulated medium voltage cables with aluminium tape shield shield. The kit is suitable for single core cables, containing components for three cores.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
24 kV with cable lugs (Al/Cu)							
CIT1.2402L-ALS	6438100301149	35-95	10-95	265	62	3	13,8
CIT1.2403L-ALS	6438100300517	95-240	70-240	270	62	3	18,4
CIT1.2404L-ALS	6438100302870	240-300	185-300	310	62	3	25,3



COT1-ALS outdoor termination kits 1 core XLPE with Al tape shield

The termination kit is used for outdoor terminating of XLPE insulated medium voltage cables with aluminium tape shield shield. The kit is suitable for single core cables, containing components for three cores.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
24 kV with cable lugs (Al/Cu)							
COT1.2402L-ALS	6438100301125	35-95	10-95	345	100	3	13,8
COT1.2403L-ALS	6438100300456	95-240	70-240	350	100	3	18,4
COT1.2404L-ALS	6438100302931	240-300	185-300	390	100	3	25,3



CITW1 indoor terminations AHXAMK-W

The termination kit is used for indoor terminating of XLPE insulated medium voltage cables with aluminium tape shield (AHXAMK-W). The kit is suitable for single core cables, containing components for three cores.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
24 kV without cable lugs (Al/Cu)							
CITW1.2402L	6438100304225	35-95	10-95	265	62	3	13,8
CITW1.2403L	6438100304232	95-240	70-240	270	62	3	18,4
CITW1.2404L	6438100304249	240-300	185-300	310	62	3	25,3
CITW1.2405L	6438100322922	400-630	400-630	490	62	3	31
CITW1.2406L	6438100322960	800-1000	630-1000	410	78	3	36,8
42kV with cable lugs (Al/Cu)							
CITW1.4202L	6438100324261	70-95	25-95	330-390	62	3	18,4
CITW1.4203L	6438100324278	120-240	- 240	400-430	106	3	25,3
CITW1.4204L	6438100324285	-	- 300	490	111	3	31
CITW1.4205L	6438100322939	400-630	400-630	500-550	62	3	31
CITW1.4206L	6438100324292	800-1000	630-1000	460-490	116	3	36,8



COTW1 outdoor terminations AHXAMK-W

The termination kit is used for outdoor terminating of XLPE insulated medium voltage cables with aluminium tape shield (AHXAMK-W). The kit is suitable for single core cables, containing components for three cores.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Conductor size mm ² 36 kV	Conductor size mm ² 42 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
24 kV with cable lugs (Al/Cu)									
COTW1.2402L	6438100304324	35-95	10-95			345	100	3	13,8
COTW1.2403L	6438100304331	95-240	70-240			350	100	3	18,4
COTW1.2404L	6438100304348	240-300	185-300			390	100	3	25,3
COTW1.2405L	6438100322977	400-630	400-630			390	100	3	31
COTW1.2406L	6438100322984	800-1000	630-1000			490	116	3	36,8
42 kV with cable lugs (Al/Cu)									
COTW1.4202L	6438100324308	70-95	25-95			630	100	3	31,1
COTW1.4203L	6438100324315	- 240	120-240			650	106	3	25,3
COTW1.4204L	6438100324322	- 300		150-300		710	111	3	31
COTW1.4205L	6438100324339	400-630	400-630	400-630	400-630	710	111	3	31
COTW1.4206L	6438100324346	800-1000	630-1000	630-1000	630-1000	710	116	3	36,8



Cold shrink cable terminations



CITH3 hybrid indoor termination kits 3 core XLPE

The termination kit is used for indoor terminating of XLPE insulated medium voltage cables with wire shield. The kit is suitable for three core cables, containing components for three cores.



Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
24 kV with cable lugs (Al/Cu)							
CITH3.2402L	6438100307523	35-95	25-95	500-1100	62	3	15
CITH3.2403L	6438100307080	95-240	70-240	500-1100	62	3	20
CITH3.2404L	6438100314712	240-300	185-300	500-1100	62	3	27,5

CITH31 hybrid indoor termination kits 3 to 1 core

The termination kit is used for indoor terminating of medium voltage three core cables with XLPE insulation and copper wire shield. The kit transfers a three core cable to three single core shielded cables.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
CITH31.2402L	6438100320867	35-95	10-95	500-2000	62	3	13,8
CITH31.2403L	6438100320874	95-240	70-240	500-2000	62	3	18,4

COTH3 hybrid outdoor termination kits 3 core XLPE

The termination kit is used for outdoor terminating of XLPE insulated medium voltage cables with wire shield. The kit is suitable for three core cables, containing components for three cores.



Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
24 kV with cable lugs (Al/Cu)							
COTH3.2402L	6438100307547	35-95	25-95	500-1400	100	3	16
COTH3.2403L	6438100307103	95-240	70-240	500-1400	100	3	20
COTH3.2404L	6438100314736	240-300	185-300	500-1400	100	3	27,5

COTH31 hybrid outdoor termination kits 3 to 1 core XLPE

The termination kit is used for outdoor terminating of medium voltage three core cables with XLPE insulation and copper wire shield. The kit transfers a three core cable to three single core shielded cables.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV	Termination length mm	Shed diameter mm	No of sheds per phase	Min. diameter on the insulation mm
24 kV with cable lugs (Al/Cu)							
COTH31.2402L	6438100320881	35-95	10-95	500-2000	100	3	13,8
COTH31.2403L	6438100320898	95-240	70-240	500-2000	100	3	36

