

Medium voltage solutions

Joints and terminations for up to 42kV



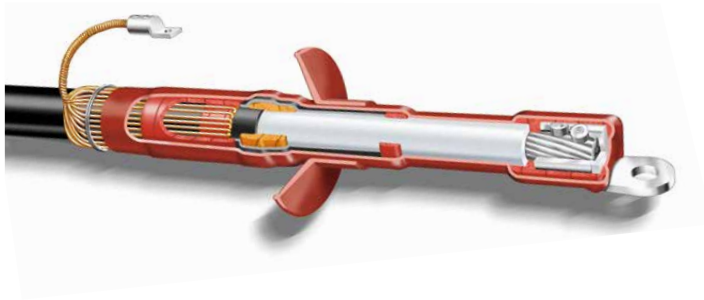
An underground cable network is relatively maintenance free and has a long service life. Ensto's solutions for underground distribution networks offer functional and reliable medium voltage accessories with both heat and cold shrink technologies. Moreover, our hybrid joints and terminations are an effective 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.

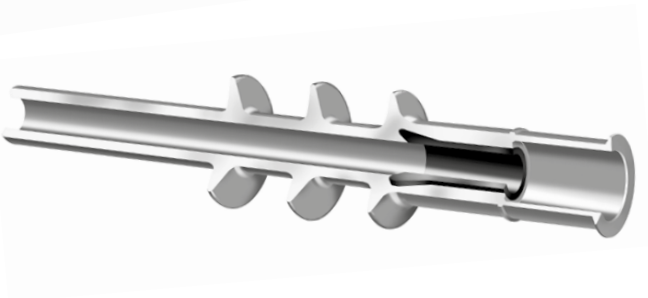
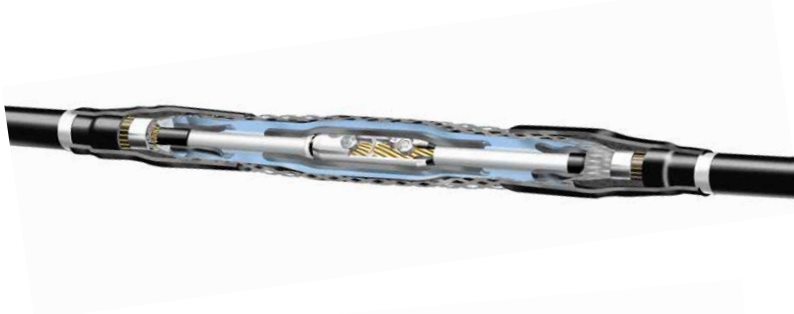


Cold shrink and hybrid accessories

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 »



Medium voltage cable accessories

Heat shrink cable joints

Heat shrink joints

HJW11 joint kits AHXAMK-W

The joint kit is used for jointing of max. 24 kV cables with XLPE insulation and aluminium tape shield. The kit is suitable for AHXAMK-W cables, containing the components for three cores.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV
24 kV without connectors			
HJW11.2402	6418677446993	Al/Cu 50-120	Al/Cu 25-95
HJW11.2403	6418677447006	Al/Cu 120-240	Al/Cu 95-240
HJW11.2404	6418677447013	Al/Cu 240-300	Al/Cu 150-300
24 kV with connectors			
HJW11.2402C	6418677447051	Al/Cu 50-95	Al/Cu 25-95
HJW11.2403C	6418677447068	Al/Cu 120-240	Al/Cu 70-240
HJW11.2404C	6418677447075	Al/Cu 240-300	Al/Cu 150-300



HJ11 joint kits 1 core XLPE

The joint kit is used for jointing of medium voltage cables with XLPE insulation and copper wire shield. The kit is suitable for single core cables and it contains the components for one core.

Product code	GTIN	Conductor size mm ²
12 kV without connectors		
HJ11.1201	6418677444715	Al/Cu 10-95
HJ11.1202	6418677444739	Al/Cu 35-95
HJ11.1203	6418677444753	Al/Cu 95-240
HJ11.1204	6418677444777	Al/Cu 150-300
HJ11.1205	6418677444791	Al/Cu 400-630
HJ11.1206	6418677444814	Al/Cu 800-1000
12 kV with connectors		
HJ11.1201C	6418677444722	Al/Cu 10-95
HJ11.1202C	6418677444746	Al/Cu 35-95
HJ11.1203C	6418677444760	Al/Cu 95-240
HJ11.1204C	6418677444784	Al/Cu 150-300
HJ11.1205C	6418677444807	Al/Cu 400-630
HJ11.1206C	6418677444821	Al/Cu 800-1000
24 kV without connectors		
HJ11.2402	6418677444852	Al/Cu 25-95
HJ11.2403	6418677444876	Al/Cu 95-240
HJ11.2404	6418677444890	Al/Cu 150-300
HJ11.2405	6418677444913	Al/Cu 400-630
HJ11.2406	6418677448492	Al/Cu 800-1000
24 kV with connectors		
HJ11.2402C	6418677444869	Al/Cu 25-95
HJ11.2403C	6418677444883	Al/Cu 95-240
HJ11.2404C	6418677444906	Al/Cu 150-300
HJ11.2405C	6418677444920	Al/Cu 400-630
HJ11.2406C	6418677448508	Al/Cu 800-1000
36 kV without connectors		
HJ11.3601	6418677444937	Al/Cu 25-95
HJ11.3602	6418677444951	Al/Cu 95-150
HJ11.3603	6418677444975	Al/Cu 150-300
HJ11.3604	6418677444999	Al/Cu 400-630
HJ11.3605	6418677453458	Al/Cu 800-1000
36 kV with connectors		
HJ11.3601C	6418677444944	Al/Cu 25-95
HJ11.3602C	6418677444968	Al/Cu 95-150
HJ11.3603C	6418677444982	Al/Cu 150-300
HJ11.3604C	6418677445002	Al/Cu 400-630
HJ11.3605C	6438100309855	Al/Cu 800-1000



Heat shrink cable joints



HJ33 joint kits 3 core XLPE

The joint kit is used for jointing of medium voltage cables with XLPE insulation and copper wire shield. The kit is suitable for three core cables.

Product code	GTIN	Conductor size mm ²
12 kV without connectors		
HJ33.1201	6418677445019	Al/Cu 10-95
HJ33.1202	6418677445033	Al/Cu 35-95
HJ33.1203	6418677445057	Al/Cu 95-240
HJ33.1204	6418677445071	Al/Cu 150-300
12 kV with connectors		
HJ33.1201C	6418677445026	Al/Cu 10-95
HJ33.1202C	6418677445040	Al/Cu 35-95
HJ33.1203C	6418677445064	Al/Cu 95-240
HJ33.1204C	6418677445088	Al/Cu 150-300
24 kV without connectors		
HJ33.2402	6418677445156	Al/Cu 10-95
HJ33.2403	6418677445170	Al/Cu 95-240
HJ33.2404	6418677445194	Al/Cu 150-300
24 kV with connectors		
HJ33.2402C	6418677445163	Al/Cu 10-95
HJ33.2403C	6418677445187	Al/Cu 95-240
HJ33.2404C	6418677445200	Al/Cu 150-300
HJ33.2405C	6418677445224	Al/Cu 185-400
36 kV without connectors		
HJ33.3601	6418677445231	Al/Cu 25-95
HJ33.3602	6418677445255	Al/Cu 95-150
HJ33.3603	6418677445279	Al/Cu 120-300
HJ33.3604	6418677445293	Al/Cu 185-400
36 kV with connectors		
HJ33.3601C	6418677445248	Al/Cu 25-95
HJ33.3602C	6418677445262	Al/Cu 95-150
HJ33.3603C	6418677445286	Al/Cu 120-300
HJ33.3604C	6418677445309	Al/Cu 185-400



HJP11 joint kits 3 core paper

The joint kit is used for jointing of medium voltage cables with paper insulation and individual lead or aluminium sheaths. The kit is suitable for three core cables, both armoured and non-armoured.

Product code	GTIN	Conductor size mm ²
24 kV without connectors		
HJP11.2402	6418677449321	Al/Cu 35-95
HJP11.2403	6418677449222	Al/Cu 95-240
24 kV with connectors		
HJP11.2402C	6418677449338	Al/Cu 35-95
HJP11.2403C	6418677449239	Al/Cu 95-240



HJHP33 joint kits 3 core H-paper

The joint kit is used for jointing of max. 24 kV three core cables with screened paper insulation, lead sheath and armour.

Product code	GTIN	Conductor size mm ²
24 kV without connectors		
HJHP33.2402	6418677455322	Al/Cu 35-95
HJHP33.2403	6418677455346	Al/Cu 95-240
24 kV with connectors		
HJHP33.2402C	6418677455315	Al/Cu 35-95
HJHP33.2403C	6418677455339	Al/Cu 95-240



Medium voltage cable accessories

Heat shrink cable joints

HJP33 joint kits 3 core belted paper

The joint kit is used for jointing of medium voltage cables with belted paper insulation and lead or aluminium sheath. The kit is suitable for three core cables, both armoured and non-armoured.

Product code	GTIN	Conductor size mm ²
12 kV without connectors		
HJP33.1202	6418677447365	Al/Cu 50-95
HJP33.1203	6418677447389	Al/Cu 95-240
HJP33.1204	6438100306441	Al/Cu 150-300
12 kV with connectors		
HJP33.1202C	6418677447372	Al/Cu 50-70
HJP33.1203C	6418677447396	Al/Cu 95-185
HJP33.1204C	6438100306458	Al/Cu 150-240



HJTW11 transition joint kits 3 core paper to AHAXMK-W

The joint kit is used for jointing of paper insulated max. 24 kV cables with individual metal sheaths to AHXAMK-W cables. The kit suits for unarmoured paper insulated cables as it is. For armoured paper insulated cables an additional kit SJEW20 is needed.

Product code	GTIN	Conductor size mm ²
24 kV without connectors		
HJTW11.2402	6418677449192	Al/Cu 50-95
HJTW11.2403	6418677449178	Al/Cu 95-240
HJTW11.2404	6418677450679	Al/Cu 185-300
24 kV with connectors		
HJTW11.2402C	6418677449208	Al/Cu 50-95
HJTW11.2403C	6418677449185	Al/Cu 95-240
HJTW11.2404C	6418677450686	Al/Cu 185-300
Additional earthing kit for armoured paper insulated cable		
SJEW20	6418677449161	Al/Cu 35-300



HJT11 transition joint kits 3 core paper to 1 core XLPE

The joint kit is used for jointing of max. 24 kV three core cables with paper insulation and individual lead or aluminium sheaths, armoured or non armoured, to single core cables with XLPE insulation and copper wire shield.

Product code	GTIN	Conductor size mm ²
24 kV without connectors		
HJT11.2402	6438100300258	Al/Cu 50-95
HJT11.2403	6438100300272	Al/Cu 95-240
HJT11.2404	6438100300296	Al/Cu 185-300
24 kV with connectors		
HJT11.2402C	6438100300265	Al/Cu 50-95
HJT11.2403C	6438100300289	Al/Cu 95-240
HJT11.2404C	6438100300302	Al/Cu 185-300



HJT13 transition joint kits 3 core paper to 3 core XLPE

The joint kit is used for jointing of max. 24 kV three core cables with paper insulation and individual lead or aluminium sheaths, armoured or non armoured, to three core cables with XLPE insulation and copper wire shield.

Product code	GTIN	Conductor size mm ²
24 kV without connectors		
HJT13.2402	6438100304027	Al/Cu 50-95
HJT13.2403	6438100304041	Al/Cu 95-240
HJT13.2404	6438100304065	Al/Cu 185-300
24 kV with connectors		
HJT13.2402C	6438100304034	Al/Cu 50-95
HJT13.2403C	6438100304058	Al/Cu 95-240
HJT13.2404C	6438100304072	Al/Cu 185-300





HJHT31 transition joint kits 3 core H-paper to 1 core XLPE

The joint kit is used for jointing of max. 24 kV three core cables with screened paper insulation, lead sheath and armour to single core cables with XLPE insulation and copper wire shield.

Product code	GTIN	Conductor size mm ²
24 kV without connectors		
HJHT31.2402	6418677455209	Al/Cu 25-95
HJHT31.2403	6418677455223	Al/Cu 95-240
24 kV with connectors		
HJHT31.2402C	6418677455193	Al/Cu 35-95
HJHT31.2403C	6418677455216	Al/Cu 95-240



HJHT33 transition joint kits 3 core H-paper to 3 core XLPE

The joint kit is used for jointing of max. 24 kV three core cables with screened paper insulation, lead sheath and armour to three core cables with XLPE insulation and copper wire shield.

Product code	GTIN	Conductor size mm ²
24 kV without connectors		
HJHT33.2402	6418677455247	Al/Cu 35-95
HJHT33.2403	6418677455261	Al/Cu 95-240
24 kV with connectors		
HJHT33.2402C	6418677455230	Al/Cu 35-95
HJHT33.2403C	6418677455254	Al/Cu 95-240



HJT31 transition joint kits 3 core belted paper to 1 core XLPE

The joint kit is used for jointing of medium voltage three core cables with belted paper insulation and lead or aluminium sheath, either armoured or non-armoured, to single core cables with XLPE insulation and copper wire or tape shield. When jointing to an AHXAMK-W cable an additional earthing kit SJEW10 is required.

Product code	GTIN	Conductor size mm ²
12 kV without connectors		
HJT31.1202	6418677447402	Al/Cu Paper 50-95 - XLPE 35-95
HJT31.1203	6418677447426	Al/Cu Paper 95-240 - XLPE 95-240
HJT31.1204	6418677458989	Al/Cu Paper 150-300 - XLPE 150-300
12 kV with connectors		
HJT31.1202C	6418677447419	Al/Cu Paper 50-70 - XLPE 35-95
HJT31.1203C	6418677447433	Al/Cu Paper 95-185 - XLPE 95-240
HJT31.1204C	6418677458972	Al/Cu Paper 150-240 - XLPE 150-300
Additional earthing kit for AHXAMK-W		
SJEW10	6418677449154	Al/Cu 35-240



HJT33 transition joint kits 3 core belted paper to 3 core XLPE

The joint kit is used for jointing of medium voltage three core cables with belted paper insulation and lead or aluminium sheath, either armoured or non-armoured, to three core cables with XLPE insulation and copper wire shield.

Product code	GTIN	Conductor size mm ²
12 kV without connectors		
HJT33.1202	6418677453267	Al/Cu Paper 50-95 - XLPE 35-95
HJT33.1203	6418677452260	Al/Cu Paper 95-240 - XLPE 95-240
HJT33.1204	6418677459009	Al/Cu Paper 150-300 - XLPE 150-300
12 kV with connectors		
HJT33.1202C	6418677453274	Al/Cu Paper 50-70 - XLPE 35-95
HJT33.1203C	6418677452253	Al/Cu Paper 95-185 - XLPE 95-240
HJT33.1204C	6418677458996	Al/Cu Paper 150-240 - XLPE 150-300



HJU33 joint kits universal cables

The joint kit is used for jointing of max. 24 kV three core universal cables EXCEL, FX-CEL and AXCES without tensioning.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV
HJU33.2401	6418677450754	10-16	10-16
HJU33.2402	6418677450761	70-95	70-95



Medium voltage cable accessories

Heat shrink cable joints

HJ33 PVC heat shrink joint

The joint kit is used for jointing of max. 7,2 kV cables with PVC insulation and copper wire shield. The kit is suitable for three core cables.

Product code	GTIN	Conductor size mm ²
HJ33.0602C	6438100313470	Al/Cu 35-95
HJ33.0603C	6438100313487	Al/Cu 95-240



HJ11_R joint kits 3 core XLPE armoured

The joint kit is used for jointing of max. 12 kV armoured cables with XLPE insulation and copper tape shield. The kit is suitable for single core cables containing the components for one core.

Product code	GTIN	Conductor size mm ²
12 kV without connectors		
HJ11.1212R	6438100326944	Al/Cu 35-95
HJ11.1213R	6438100326968	Al/Cu 95-240
HJ11.1214R	6438100326982	Al/Cu 150-300
HJ11.1215R	6438100327002	Al/Cu 400-630
HJ11.1216R	6438100327026	Al/Cu 630-1000
12 kV with connectors		
HJ11.1212RC	6438100326951	Al/Cu 35-95
HJ11.1213RC	6438100326975	Al/Cu 95-240
HJ11.1214RC	6438100326999	Al/Cu 150-300
HJ11.1215RC	6438100327019	Al/Cu 400-630
HJ11.1216RC	6438100327033	Al/Cu 630-1000



HJ33_R joint kits 3 core XLPE armoured

The joint kit is used for jointing of armoured cables with XLPE insulation and copper tape shield on each core. The HJ33 kits for three core cables with steel tape or steel wire armour.

Product code	GTIN	Conductor size mm ²
12 kV without connectors		
HJ33.1212R	6438100315696	Al/Cu 35-95
HJ33.1213R	6438100315702	Al/Cu 95-240
HJ33.1214R	6438100315719	Al/Cu 150-300
12 kV with connectors		
HJ33.1212RC	6438100314569	Al/Cu 35-95
HJ33.1213RC	6438100314927	Al/Cu 95-240
HJ33.1214RC	6438100314934	Al/Cu 150-300



SJEW additional kits 3 core XLPE to AHXAMK-W

The additional kit is used when jointing of max. 24 kV 3 core cables with copper wire shield to AHXAMK-W cables HJW11 type basic kit is needed.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV
SJEW42	6418677449345	25-95	25-95
SJEW43	6418677449352	95-300	95-300



SJE additional kits 1 core XLPE to 3 core XLPE

The additional kit is used when jointing of max. 24 kV three core XLPE insulated cables with copper wire shield to single core XLPE insulated cables with copper wire shield. HJ11 type basic kits are needed for SJE42 and SJE43 and a HJ33 type basic kit for SJE44 and SJE45.

Product code	GTIN	Conductor size mm ² 12 kV	Conductor size mm ² 24 kV
SJE42	6418677452062	25-95	25-95
SJE43	6418677452079	95-300	95-300
SJE44	6438100300135	25-95	25-95
SJE45	6438100300142	95-300	95-300

