



ENSTO

Low voltage solutions
for underground
cable networks

Joints and terminations up to 1kV



Better life.
With electricity.

ensto.com



Durability and easy installation
are important features in
Ensto's underground cable
accessories.

Low voltage solutions

Joints and terminations up to 1kV



The share of underground cabling in electricity distribution networks have increased. Under the ground, the cables are protected against the demanding climate which makes the cable network very durable. Ensto's accessories for low voltage underground distribution networks comprise high quality product packages tested according to international standards.



Terminations

- › Packages include all components required for terminating a cable.
- › Available both with and without shear-head bolt cable lugs.



Cable joints

- › Packages include all components required for jointing cables.
- › For plastic and paper insulated cables including transition joints.
- › Available both with and without shear-head bolt cable connectors.



Heat shrink tubes

- › Heat shrink tube manufacturing takes place in our own production facilities in Porvoo, Finland.
- › Ensto's own compound recipe is carefully developed and fine-tuned for the highest quality possible.



Low voltage cable accessories

Heat shrink cable joints

SJK heat shrink joint kits

Heat shrink joint for 1 kV cables with Al/Cu conductors, polymeric insulation and polymeric outer sheath. Mechanical connectors are included in the kit. The joint kit include heat shrinkable tubes and all the additional components needed for assembly. The kits are also available without connectors.



Product code	GTIN	Conductor size (mm ²) 4 to 4 cores	Conductor size (mm ²) 4 to 3+1 cores	Conductor size (mm ²) 5 to 5 cores
With connectors				
SJK0C	6438100300944	6-35	6-35	
SJK1C	6418677459740	16-50	16-50	
SJK1.1C	6438100306687	16-50	16-50	
SJK2C	6418677459757	50-95	50-95	
SJK2.1C	6438100306694	50-95	50-95	
SJK25C	6438389019650	70-150	70-150	
SJK25.1C	6438100391515	95-150	95-150	
SJK3C	6418677459764	95-240	95-240	
SJK4C	6418677459771	150-300	150-300	
SJK4X35C	6438100366490	6-35		
SJK4X50C	6438100366506	16-50		
SJK4X95C	6438100366513	35-95		
SJK4X185C	6438100366476	95-185		
SJK4X240C	6438100354404	95-240		
SJK5X35C	6438100366452			6-35
SJK5X50C	6438100366445			6-50
Without connectors				
SJK4X4	6438389019919	1.5-4		
SJK4X10	6438100381813	4-10		
SJK4X16	6438389019926	6-16		
SJK4X25	6438100381820	16-25		
SJK4X50	6438100381837	16-50		
SJK4X150	6438389019933	50-150		
SJK4X240	6438100381851	95-240		
SJK5X35	6438100373559			6-35

SJKV heat shrink joint kits

Heat shrink joint for 1 kV cables with Al/Cu conductors, polymeric insulation, Cu-wire screen and polymeric outer sheath. Mechanical connectors are included in the kit. The joint kit include heat shrinkable tubes and all the additional components needed for assembly. The kits are also available without connectors.



Product code	GTIN	Conductor size (mm ²) 3+1 to 3+1 cores	Conductor size (mm ²) 4+1 to 4+1 cores
With connectors			
SJKV0C	6438100301033	10-35	6-35
SJKV1C	6438100301040	25-50	16-50
SJKV2C	6438100301057	70-95	50-95
SJKV3C	6438100301064	120-240	95-240
SJKV4C	6438100301071	185-300	150-300
SJKV4X95C	6438100366414		35-95
SJKV4X240C	6438100366421		95-240
Without connectors			
SJKV3X2	6438100403157	1,5-2,5	
SJK3X4	6438389019858	1,5-4	
SJKV3X10	6438100403164	4-10	
SJKV3X16	6438389019865	6-16	
SJKV3X25	6438100403133	16-25	
SJKV3X50	6438100403126	16-50	
SJKV3X95	6438100403119	25-95	
SJKV3X150	6438389019872	50-150	
SJKV3X240	6438100403140	150-240	

Low voltage cable accessories

Heat shrink cable joints



SJKA heat shrink joint kits

Heat shrink joint for 1 kV AXAMK cables with Al/Cu conductors, polymeric insulation, Al/Cu-wire screen and polymeric outer sheath. Mechanical connectors are included in the kit. The joint kit include heat shrinkable tubes and all the additional components needed for assembly.

Product code	GTIN	Conductor size (mm ²)
SJKA1C	6438389101089	25-50
SJKA2C	6438100402174	50-95
SJKA25C	6438389101096	95-150



SJPK heat shrink transition joint kits

Heat shrink joint for 1 kV belted paper insulated, lead sheathed, armoured, 4 core cable to a polymeric insulated 4 or 3+1 core cable. Mechanical connectors are included in the kit. The joint kit include heat shrinkable tubes and all the additional components needed for assembly.

Product code	GTIN	Conductor size (mm ²) 4 paper to 4 polymeric cores	Conductor size (mm ²) 4 paper to 3+1 polymeric cores
SJPK1C	6438100318437	6-50	6-50
SJPK2C	6438100318475	50-95	50-95
SJPK3C	6438100318499	95-240	95-240



SJA heat shrink additional kits

Heat shrink additional kit used together with a 1 kV joint kit SJK for jointing of belted paper insulated, lead sheathed, armoured, 3 core cables to a polymeric insulated 4 cables. The additional kit include heat shrinkable tubes and all the additional components needed for assembly.

Product code	GTIN	Conductor size (mm ²)	Basic kit
SJA1	6418677445675	16-50	SJK1C
SJA2	6418677445682	50-95	SJK2C
SJA3	6418677445699	95-240	SJK3C



SJAP heat shrink additional kits

Heat shrink additional kit used together with the 1 kV joint kit SJK for jointing of belted paper insulated, aluminium sheathed, 3 core cables (e.g. APAKM). The additional kit include heat shrinkable tubes and all the additional components needed for assembly.

Product code	GTIN	Conductor size (mm ²)	Basic kit
SJAP1	6418677452567	35-50	SJK1C
SJAP2	6418677452574	50-95	SJK2C
SJAP3	6418677452581	95-240	SJK3C



Low voltage cable accessories

Heat shrink cable joints

SJPP heat shrink additional kits

Heat shrink additional kit used together with the 1 kV joint kit SJK for jointing of belted paper insulated, lead sheathed, armoured 4 core cables. The additional kit include heat shrinkable tubes and all the additional components needed for assembly.

Product code	GTIN	Conductor size (mm ²)	Basic kit
SJPP50	6418677452598	16-50	SJK1C
SJPP120	6418677452604	50-95	SJK2C
SJPP240	6418677452611	95-240	SJK3C



SJP heat shrink additional kits

Heat shrink additional kit used together with the 1 kV joint kit SJK for jointing of belted paper insulated, lead sheathed, armoured, 4 core cables to a polymeric insulated 4 or 3+1 core cables. The additional kit include heat shrinkable tubes and all the additional components needed for assembly.

Product code	GTIN	Conductor size (mm ²)	Basic kit
SJP50	6418677403323	16-50	SJK1C
SJP120	6418677403309	50-95	SJK2C
SJP240	6418677403316	95-240	SJK3C



SJL heat shrink additional kits

Heat shrink additional kit used together with the 1 kV joint kit SJK for jointing the concentric conductors. The kit provides a shield over the joint. The additional kit include heat shrinkable tubes and all the additional components needed for assembly.

Product code	GTIN	Conductor size (mm ²) 3+1 to 3+1 cores	Conductor size (mm ²) 4+1 to 4+1 cores	Basic kit
SJL50	6418677403293	16-50	16-50	SJK1C, SJK1.1C
SJL185	6418677403279	70-185	70-185	SJK2C, SJK2.1C, SJK3C
SJL300	6418677403286	150-300	150-300	SJK4C



Low voltage cable accessories

Heat shrink cable terminations



STKO heat shrink outdoor termination kits

Heat shrink outdoor termination for 1 kV with Al/Cu conductors, polymeric insulation and polymeric outer sheath. Mechanical lugs are included in the kit. The termination kit include heat shrinkable tubes and all the additional components needed for assembly. The kits are also available without lugs.



L_t = Termination length

Product code	GTIN	Conductor size (mm ²) 4 cores	Conductor size (mm ²) 3+1 cores	Termination length L (mm)
With cable lugs				
STKO4X95L	6438389017335	50-95		1100
STKO4X185L	6438389017342	95-185		1100
STKO4X300L	6438389017359	185-300		1100
Without cable lugs				
STKO4X70	6438389017298	25-70	25-70	1100
STKO4X185	6438389017281	50-185	50-185	1100
STKO4X300	6438389017274	185-300	185-300	1100

STKA heat shrink outdoor termination kits

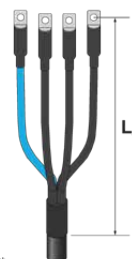
Heat shrink termination for 1 kV AXAMK cables with Al/Cu conductors, polymeric insulation, Al/Cu-wire screen and polymeric outer sheath. The joint kit include heat shrinkable breakout, heat shrinkable tubes for screen wires and mechanical lug for screen wires.



Product code	GTIN	Conductor size (mm ²)	Termination length L (mm)
STKA3X50	6438389101065	25-50	750
STKA3X95	6438389019070	50-95	750
STKA3X150	6438389101072	95-150	750

STA heat shrink termination kits

Heat shrink termination used for indoor and outdoor terminating of 1 kV belted paper insulated, aluminium sheathed, 3 core cables (e.g. APAKM). Mechanical lugs are included in the kit. The termination kit include heat shrinkable tubes and all the additional components needed for assembly. The kits are also available without lugs.



L_t = Termination length

Product code	GTIN	Conductor size (mm ²)	Termination length L (mm)
With cable lugs			
STA3	6418677445729	95-150	500
STA4	6418677445736	185-240	500
Without cable lugs			
STA1.0	6418677456251	35-50	500
STA2.0	6418677456268	70-95	500
STA3.0	6418677456279	95-150	500
STA4.0	6418677456282	185-240	500

STE heat shrink additional kits

Heat shrink additional kit used together with the 1 kV termination kit STKO termination for indoor or outdoor terminating of belted paper insulated, lead sheathed, armoured, 4 core cables. The additional kit include heat shrinkable tubes and all the additional components needed for assembly.



Product code	GTIN	Conductor size (mm ²)	Basic kit
STE0	6418677452628	25-70	STKO4X70
STE1	6418677452635	50-185	STKO4X95L, STKO4X185, STKO4X185L
STE2	6418677452642	185-300	STKO4X300, STKO4X300L



Low voltage cable accessories

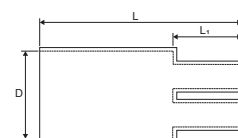
Cable breakouts and end caps

SBO heat shrink cable breakouts

Heat shrink cable breakouts are used to protect the terminated cable ends against moisture and dirt. The breakouts are suitable for both polymeric and belted paper insulated 1 kV cables. They are UV resistant and with adhesive. The colour is black.



Product code	GTIN	No of cores	D expanded / recovered (mm)	D1 expanded / recovered (mm)	L (mm)	L1 (mm)	Final wall thickness (mm)	Conductor size (mm ²)
SBO2.1	6418677442865	2	33/10	14/3	90	20	2.0	2x6-35
SBO2.2	6418677442872	2	60/22	24/7	120	35	3.0	2x50-95
SBO3.1	6418677442889	3	38/14	15/4	110	20	1.5	3x6-50
SBO3.3	6418677442896	3	60/22	26/8	185	45	3.0	3x50-120
SBO3.4	6418677442902	3	80/33	36/16	210	50	3.0	3x150-240
SBO3.5	6418677442919	3	110/47	48/20	225	75	3.0	3x240-300
SBO3.6	6418677442926	3	140/54	62/27	240	65	3.0	
SBO3.7	6438100404734	3	170/77	75/28	270	68	3.0	
SBO4.1	6418677442933	4	50/14	15/4	105	25	1.5	4x6-70
SBO4.2	6418677442940	4	55/25	20/6	180	45	3.0	4x50-120
SBO4.3	6418677442957	4	72/22	25/9	190	45	3.0	4x70-240
SBO4.4	6418677442964	4	100/33	35/14	215	50	3.0	4x120-300
SBO5.1	6438100306618	5	50/15	15/4	105	30	2.0	5x6-70
SBO5.3	6438100306632	5	80/33	27/9	215	50	3.0	5x70-240
SBO5.4	6438100306649	5	100/42	34/10	195	55	3.0	5x120-300

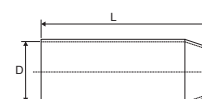


SEC heat shrink cable end caps

Heat shrink cable end caps are used to protect the cable ends against moisture and dirt. The end caps are useful especially when cables are stored outdoors. The caps are suitable for both polymeric and belted paper insulated 1 kV cables as well as for telecommunication cables. They are UV resistant and with adhesive. The colour is black.



Product code	GTIN	D expanded / recovered (mm)	L (mm)	Final wall thickness (mm)	Conductor size (mm ²)
SEC1.1	6418677442797	15/5	45	2.0	4x1.5-2.5
SEC1.2	6418677442803	25/9	70	3.0	4x1.5-16
SEC1.3	6418677442810	40/15	102	3.0	4x6-50
SEC1.4	6418677442827	63/24	118	4.0	4x25-150
SEC1.5	6418677442834	75/32	133	4.0	4x70-300
SEC1.6	6418677442841	106/45	164	4.0	4x185-300
SEC1.7	6418677442858	120/57	155	4.0	4x300



Low voltage cable accessories

Cable breakouts and end caps

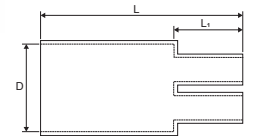


CSBO cold shrink cable breakouts

Cold shrink cable breakouts are used to protect the terminated cable ends against moisture and dirt. The breakouts are suitable for both polymeric and belted paper insulated 1 kV cables. They are UV resistant. The colour is grey.



Product code	GTIN	No of cores	D expanded / recovered (mm)	D1 expanded / recovered (mm)	L (mm)	L1 (mm)	Conductor size (mm ²)
CSBO4.1	6438100354428	4	45/26	14/10	126	35	4x50-95
CSBO4.2	6438100362645	4	63/36	17/12	137	40	4x95-185
CSBO4.3	6438100362652	4	75/51	25/14	145	40	4x185-300
CSBO4.4	6438100362669	4	92/56	40/19	160	40	4x240-300

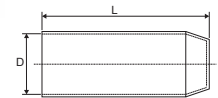


CSEC cold shrink cable end caps

Cold shrink cable end caps are used to protect the cable ends against moisture and dirt. The end caps are useful especially when cables are stored outdoors. The caps are suitable for both polymeric and belted paper insulated 1 kV cables as well as for telecommunication cables. They are UV resistant. The colour is black.



Product code	GTIN	D expanded / recovered (mm)	L (mm)	Conductor size (mm ²)
CSEC1.1	6438100360696	16/13	100	
CSEC1.2	6438100360702	24/18	100	4x16
CSEC1.3	6438100360719	48/25	100	4x25-120
CSEC1.4	6438100360726	70/48	100	4x185-300



Low voltage cable accessories

Medium and heavy wall heat shrink tubes



CPEEL medium wall heat shrink tubes with adhesive

Medium wall heat shrink tubes are used for insulation and outer protection for 1 kV cables. The tubes are UV resistant and halogen free. The colour is black.



Product code	GTIN	Length (mm)	D expanded / recovered (mm)	Final wall thickness (mm)
CPEEL12-3	6418677417122	1000	12/3	1.5
CPEEL19-6	6418677442506	1000	19/6	1.5
CPEEL30-8	6418677442513	1000	30/8	2.0
CPEEL40-12	6418677417153	1000	40/12	2.0
CPEEL50-16	6418677442520	1000	50/16	2.0
CPEEL63-19	6418677417177	1000	63/19	2.5
CPEEL75-22	6418677437991	1000	75/22	3.0
CPEEL95-30	6418677442537	1000	95/30	3.3
CPEEL115-34	6418677442544	1000	115/34	3.3

CPEEPL heavy wall heat shrink tubes with adhesive

Heavy wall heat shrink tubes are used for insulation and outer protection for 1 kV cables. The tubes are UV resistant and halogen free. The colour is black.



Product code	GTIN	Length (mm)	D expanded / recovered (mm)	Final wall thickness (mm)
CPEEPL16-4	6438389021516	1000	18/4	2.0
CPEEPL19-6	6418677442643	1000	23/6	2.0
CPEEPL33-8	6418677417337	1000	33/8	3.1
CPEEPL45-12	6418677417344	1000	45/12	4.3
CPEEPL51-16	6418677442650	1000	51/16	4.3
CPEEPL68-20	6438389101249	1000	68/19	4.3
CPEEPL85-25	6418677442674	1000	85/25	4.3
CPEEPL105-30	6438389020472	1000	105/30	4.3
CPEEPL130-36	6418677442681	1000	130/34	4.3
CPEEPL140-42	6438100314521	1000	140/42	4.3
CPEEPL165-50	6418677442698	1000	165-50	4.3
CPEEPL185-50	6438389101256	1000	185-50	4.3



ENSTO

Ensto Finland Oy
Ensio Miettisen katu 2, P.O. Box 77
FIN-06101 Porvoo, Finland
ensto@ensto.com

ensto.com

