

Indoor terminations for screened, 1-core polymeric insulated cables 10 kV, 20 kV and 35 kV



Cable

The indoor termination is designed for 10 kV, 20 kV and 35 kV screened single core polymeric insulated cables. For example: АПВБ, ПБП, УНАКС, ХУНАКС, УНКС, АХЕКВЦУ, АХЕКВЦЕУ, СХЕКВЦЕУ, N(A)2XSУ, SZAQkrKM, SZAXRkKM, XHE 49, XHP 48, EHP 48, N(A)2XS(F)2У, АХХАМК-У, NF C 33-223.

Design of termination

The screen wires or the earth lead are embedded in sealing mastic. Yellow stress grading mastic is laid around the end of the screen cut. A non-tracking, insulating tubing coated with stress control and sealing mastic insulates and seals between the end of the oversheath and the cable lug. Solderless earth connections can be ordered separately. Kits with the modification code -13 include mechanical lugs with a busbar connection hole for M12 connection bolts, with code -17 for M16 bolts.

Nominal voltage U_0/U (kV)	Terminations with mechanical lugs		Terminations without lugs		L (mm)
	Cross section (mm ²)	Ordering description	Cross section (mm ²)	Ordering description	
6/10	25– 95	POLT-12C/1XI-ML-1-13	25– 95	POLT-12C/1XI	250*
	70– 150	POLT-12D/1XI-ML-2-13			300
	95– 240	POLT-12D/1XI-ML-4-13	95– 240	POLT-12D/1XI	250*
	185– 300	POLT-12E/1XI-ML-5-13			300
	240– 400	POLT-12E/1XI-ML-6-13***	240– 500	POLT-12E/1XI	300
	500– 630	POLT-12F/1XI-ML-7-17***	500– 800	POLT-12F/1XI	340*
			1000– 1200	POLT-12G/1XI	340
12/20	25– 70	POLT-24C/1XI-ML-1-13	25– 70	POLT-24C/1XI	340
	70– 150	POLT-24D/1XI-ML-2-13	70– 240	POLT-24D/1XI	340
	95– 240	POLT-24D/1XI-ML-4-13			340
	185– 300	POLT-24E/1XI-ML-5-13	185– 400	POLT-24E/1XI	340
	240– 400	POLT-24E/1XI-ML-6-13***			340
	500– 630	POLT-24F/1XI-ML-7-17***	400– 800	POLT-24F/1XI	440**
20/35	35	POLT-42C/1XI-ML-1-13	35	POLT-42C/1XI	500
	50– 120	POLT-42D/1XI-ML-2-13	50– 120	POLT-42D/1XI	500
	150– 300	POLT-42E/1XI-ML-5-13	150– 300	POLT-42E/1XI	500
	240– 400	POLT-42F/1XI-ML-6-13***	400– 500	POLT-42F/1XI	500
	500– 630	POLT-42G/1XI-ML-7-17***	500– 800	POLT-42G/1XI	560

* Dimension L of termination with mechanical lugs is 300 mm.

** Dimension L of termination with mechanical lugs is 340 mm.

*** The termination is also available with mechanical lugs for busbar connection by M20 bolts (modification code -21). The kit is not suitable for RICS adapters. For RICS application please see the chapter "Connection Systems".

Note: One termination kit includes material for 3 phases.

For terminations with mechanical lugs for M16 bolts use modification code -17.

Solderless earth connections for cables with tape shield have to be ordered separately.

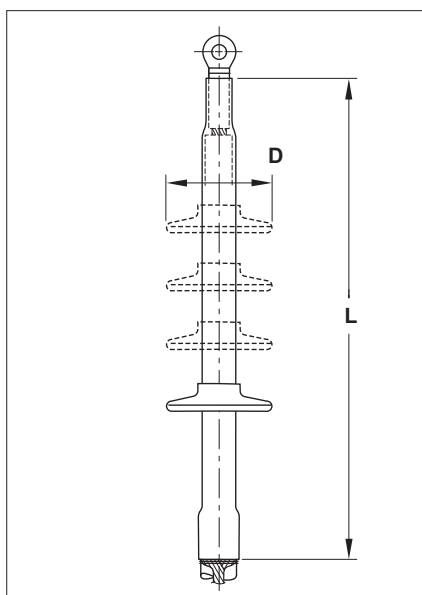
Solderless earth connection for cables with tape shield

Cross section (mm²) for cables with nominal voltage U_0/U

6/10 kV	12/20 kV	22/35 kV	Ordering description
Cables with bonded aluminium tape shield without armour			
25– 120	25– 120		SMOE-62609
95– 400	50– 240		SMOE-62589
Cables with copper tape shield without armour			
25– 70			EAKT-1655
35– 120	25– 70		EAKT-1656
95– 240	50– 150	25– 70	EAKT-1657
240– 500	120– 400	35– 300	EAKT-1658
630– 800	500– 800	240– 800	EAKT-1659
Cables with copper tape shield and with aluminium wire armour			
70– 240	70– 150		SMOE-62822

Note: The solderless earth connection kit must be ordered separately. The SMOE kits include 3 roll springs, 3 earth leads and copper mesh. The EAKT kits for copper tape include 3 roll springs and 3 earth leads. The SMOE-62822 kit for cables with wire armour includes roll springs, earth lead and sealing tubing.

Outdoor terminations for screened, 1-core polymeric insulated cables 10 kV, 20 kV and 35 kV



Design of termination

The design and installation is the same as for indoor terminations. In addition skirts are installed onto the tubing (see table). Solderless earth connections can be ordered separately. Kits with the modification code -13 include mechanical lugs with a busbar connection hole for M12 connection bolts, with code -17 for M16 bolts.

Dimensions L, D see table

Nominal voltage U_0/U (kV)	Terminations with mechanical lugs		Terminations without lugs		Dimensions (mm)		No. of skirts
	Cross section (mm ²)	Ordering description	Cross section (mm ²)	Ordering description	L	D	
6/10	25– 95	POLT-12C/1XO-ML-1-13	25– 95	POLT-12C/1XO	250*	85	3 x 1
	70–150	POLT-12D/1XO-ML-2-13			300	95	3 x 1
	95–240	POLT-12D/1XO-ML-4-13	95– 240	POLT-12D/1XO	250*	95	3 x 1
	240–400	POLT-12E/1XO-ML-6-13***	240– 500	POLT-12E/1XO	300	115	3 x 1
	500–630	POLT-12F/1XO-ML-7-17***	500– 800	POLT-12F/1XO	340*	135	3 x 1
			1000–1200	POLT-12G/1XO	340	135	3 x 1
12/20	25– 70	POLT-24C/1XO-ML-1-13	25– 70	POLT-24C/1XO	440	85	3 x 3
	70–150	POLT-24D/1XO-ML-2-13	70– 240	POLT-24D/1XO	440	95	3 x 3
	95–240	POLT-24D/1XO-ML-4-13			440	95	3 x 3
	185–400	POLT-24E/1XO-ML-6-13***	185– 400	POLT-24E/1XO	440	115	3 x 3
	500–630	POLT-24F/1XO-ML-7-17***	400– 800	POLT-24F/1XO	500**	135	3 x 3
20/35	35	POLT-42C/1XO-ML-1-13	35	POLT-42C/1XO	560	85	3 x 4
	50–120	POLT-42D/1XO-ML-2-13	50– 120	POLT-42D/1XO	560	95	3 x 4
	150–300	POLT-42E/1XO-ML-5-13	150– 300	POLT-42E/1XO	560	115	3 x 4
	240–400	POLT-42F/1XO-ML-6-13***	400– 500	POLT-42F/1XO	560	135	3 x 4
	500–630	POLT-42G/1XO-ML-7-17***	500– 800	POLT-42G/1XO	560	135	3 x 4

* Dimension L of termination with mechanical lugs is 300 mm.

** Dimension L of termination with mechanical lugs is 440 mm.

*** The termination is also available with mechanical lugs for busbar connection by M20 bolts (modification code -21).

Note: One termination kit includes material for 3 phases.

For terminations with mechanical lugs for M16 bolts use modification code -17.

Solderless earth connections for cables with tape shield have to be ordered separately.

Solderless earth connection for cables with tape shield

Cross section (mm²) for cables with nominal voltage U_0/U

6/10 kV	12/20 kV	22/35 kV	Ordering description
Cables with bonded aluminium tape shield without armour			
25–120	25–120		SMOE-62609
95–400	50–240		SMOE-62589
Cables with copper tape shield without armour			
25– 70			EAKT-1655
35–120	25– 70		EAKT-1656
95–240	50–150	25– 70	EAKT-1657
240–500	120–400	35–300	EAKT-1658
630–800	500–800	240–800	EAKT-1659
Cables with copper tape shield and with aluminium wire armour			
70–240	70–150		SMOE-62822

Note: The solderless earth connection kit must be ordered separately.

The SMOE kits include 3 roll springs and 3 earth leads and copper mesh.

The EAKT kits for copper tape include 3 roll springs and 3 earth leads. The SMOE-62822 kit for cables with wire armour includes roll springs, earth lead and sealing tubing.