

TWENPOWER: SPECIALS

TRANSFORMER CONNECTION CABLE

characteristics:

- easy to install thanks to a strippable insulation screen.
- single-core flexible cable, circular stranded copper conductor, strippable insulation screen, flame-retardant PVC sheath for overhead cables (flexible PE sheath (LLDPE) for underground cables).
- the conductor screen, the insulation and the insulation screen are applied in a single three-layer extrusion process and vulcanized under nitrogen pressure at one go. The insulation provides, also due to the "dry cross-linking process", good resistance to water-treeing and retains, even after ageing, a high electrical strength.



Design:

conductor:

circular conductors made up of copper wires (compacted). 1x16 mm² and 1x25 mm²

conductor screen:

as for standard cable.

insulation:

high-quality XLPE

insulation screen:

strippable, 0.8 mm nominal thickness.

Especially for ease of installation when it comes to making short connections, such as in transformer stations involving many terminations.

earthing screen:

wire screen on top of semi-conductive binding.

Mainly used in open-air installations, so no need for longitudinally watertight construction.

sheath:

Flame-retardant PVC

options:

earthing screen made from copper strip.

sheath:

- LLDPE + longitudinally watertight construction (for underground cables).

- PUR (for abrasion-resistant applications).

nominal core c.s.a.	earthing screen c.s.a.	diameter over				weight
		conductor	insulation	earthing screen	cable	
mm ²	mm ²	mm	mm	mm	mm	kg/m
8,7/15 kV						
1 x 16 ¹⁾	2 ²⁾	5,0	15,2 ³⁾	16,6	22	0,59
1 x 16	16	5,0	16,0	18,7	24	0,77
1 x 25	16	6,0	17,4	21,4	30	1,05
12/20 kV						
1 x 25	16	6,0	19,5	22,9	29	1,07

nominal core c.s.a.	designation with sheath of		reactance (at 50 Hz)		capacitance (at 50 Hz)
			trefoil	flat	
mm ²	PVC	LLDPE	Ω/km	Ω/km	μF/km
8,7/15 kV					
1 x 16 ¹⁾	YMvK	-	n.v.t.	n.v.t.	0,15
1 x 16	YMvK	YMeK	0,158	0,257	0,14
1 x 25	YMvK	YMeK	0,161	0,250	0,15
12/20 kV					
1 x 25	YMvK	YMeK	0,160	0,250	0,13

¹⁾ especially in combination with certain switchgear.

²⁾ copper strip instead of copper wire.

³⁾ insulation thickness is not in line with NEN 3620.