

Single-core high-voltage oil-filled cable

Construction

- Hollow conductor of round copper wires, stranded, segmented above 1000 m²
- Semi-conducting paper screen
- Conductor insulation of oil cable paper
- Höchstaedter and semiconductor paper tape
- Cotton tape with copper thread
- Corrugated copper sheath, radially watertight
- Corrugation filling, halogen-free
- HDPE outer sheath, halogen-free, black with two red stripes

Applications

In distribution networks and power stations.

Laying in underground tubes, indoors, in cable ducts, or buried.

A comprehensive range of sealing ends, joints and fixing elements is available from Brugg Cable.

Special features

Admissible impulse voltage 750 kV.

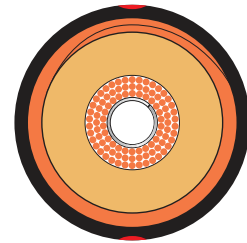
The HPDE outer sheath guarantees excellent insulation. High wear-resistance gives favorable laying conditions.

The cable is free of PCB.

Standards

SEV 3320.1977 + A1.1990 + A2.1990
IEC 141-1.1993

POCUW-T 150/87 kV



Technical data














Cross-section	Dia-meter	Weight	Oil content	Capacitance	AC resistance at 60°C and 50 Hz	Reactance at 50 Hz s = 25 cm	Impedance at 60°C and 50 Hz	Laying data	
								min. bending radius ¹⁾	max. pulling force
mm ²	mm	kg/100m	l/100m	μF/km	Ω/km	Ω/km	Ω/km	mm	kN
150	65	550	116	0.239	0.144	0.229	0.270	1300	9.0
200	68	620	125	0.256	0.107	0.222	0.247	1400	12.0
240	70	690	138	0.276	0.087	0.216	0.233	1400	14.0
300	69	745	138	0.283	0.070	0.214	0.225	1400	18.0
400	74	870	154	0.305	0.055	0.207	0.214	1500	24.0
500	78	1010	166	0.327	0.043	0.201	0.206	1600	30.0
630	81	1175	177	0.352	0.034	0.195	0.198	1650	37.5
800	84	1360	190	0.374	0.027	0.190	0.192	1700	48.0
1000	88	1640	217	0.401	0.021	0.184	0.186	1800	60.0
1200	92	1850	232	0.430	0.018	0.179	0.180	1850	72.0
1600	100	2300	266	0.481	0.014	0.170	0.171	2000	96.0
2000	105	2735	272	0.511	0.012	0.166	0.166	2100	120.0












Notice:

¹⁾ Min. installation radius = 0.8 x min. traction radius

– For further information on transport, laying, installation and test standards, see chapter "Technical Information"

Load currents
POCUW-T 150/87 kV

Laying	in tube elements, buried				open air					
	 s = 25 cm				 s = 2 · d			 touching		
Mode	Regular service		Emerg. service ³⁾	Regular or industrial service		Emerg. service ³⁾	Regular or industrial service		Emerg. service ³⁾	
Conductor temperature 60 °C	≤ 80 °C ¹⁾	80 °C ²⁾	95 °C	60 °C	80 °C	95 °C	60 °C	80 °C	95 °C	
Earthing										
Cross-section	mm ²									
	A	A	A	A	A	A	A	A	A	A
150	320	388	388	465	363	470	532	317	417	474
200	374	454	454	546	429	556	629	374	492	560
240	419	509	509	615	488	633	717	424	558	635
300	473	575	575	696	555	721	816	477	630	718
400	537	653	653	793	637	828	938	547	722	824
500	617	750	752	918	735	956	1084	625	828	946
630	702	845	858	1053	849	1108	1257	714	949	1086
800	785	938	963	1187	961	1257	1430	798	1065	1221
1000	891	1050	1094	1353	1109	1452	1651	915	1222	1403
1200	957	1115	1178	1465	1213	1591	1811	988	1324	1523
1600	1100	1264	1360	1713	1419	1869	2133	1125	1518	1753
2000	1191	1358	1479	1874	1563	2066	2362	1218	1650	1910

Laying	buried									
	 touching									
Mode	Regular service		industrial service			Emerg. service ³⁾	Regular service		Emerg. service ³⁾	
Conductor temperature 60 °C	≤ 80 °C ¹⁾	80 °C ²⁾	60 °C	80 °C ²⁾	95 °C	60 °C	≤ 80 °C ¹⁾	80 °C ²⁾	95 °C	
Earthing										
Cross-section	mm ²									
	A	A	A	A	A	A	A	A	A	A
150	314	332	379	353	424	466	307	322	371	458
200	366	384	442	414	497	546	355	369	430	534
240	409	426	495	465	559	615	394	405	478	597
300	459	471	555	522	629	692	435	441	529	664
400	518	532	628	593	715	787	483	487	590	745
500	585	595	711	673	813	896	533 ¹⁾	533	656	836
630	658	663	803	761	922	1018	579 ¹⁾	579	726	933
800	725	725	889	844	1024	1135	618 ¹⁾	618	787	1021
1000	803 ¹⁾	803	1000	955	1163	1287	612 ¹⁾	612	806	1062
1200	845 ¹⁾	845	1065	1020	1246	1382	628 ¹⁾	628	838	1114
1600	919 ¹⁾	919	1186	1141	1403	1561	652 ¹⁾	652	890	1200
2000	973 ¹⁾	973	1270	1224	1510	1685	668 ¹⁾	668	920	1253

¹⁾ Conductor temperature limited by transfer temperature to earth of 50°C

²⁾ Transfer temperature to earth exceeding 50°C

³⁾ Emergency service for max. 8h/day and 100h/year (transfer temperature to earth exceeding 50°C)

Notice:

– For calculation conditions, short-time loading and permissible short-circuit currents, see chapter "Technical Information"

