

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
- Lead sheath, radially watertight
- Anti-corrosion protection of impregnated paper tape
- Pressure layer of non-magnetic steel tapes
- 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 650 kV.

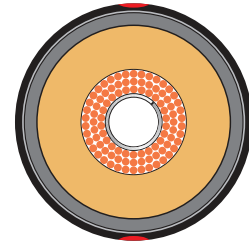
The HPDE outer sheath guarantees excellent insulation. High wear-resistance gives favorable laying conditions.

The cable is free of PCB.

Standards

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

POP-B-T 132/76 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	56	820	86	0.268	0.144	0.229	0.270	1150	9.0
200	58	905	93	0.288	0.107	0.222	0.247	1200	12.0
240	61	990	104	0.311	0.087	0.216	0.233	1250	14.0
300	62	1110	104	0.319	0.070	0.214	0.225	1250	18.0
400	66	1275	115	0.345	0.055	0.207	0.214	1350	24.0
500	69	1420	125	0.371	0.043	0.201	0.206	1400	30.0
630	72	1600	133	0.399	0.034	0.195	0.198	1450	37.5
800	76	1860	143	0.425	0.027	0.190	0.192	1550	48.0
1000	80	2150	158	0.461	0.021	0.184	0.186	1600	60.0
1200	84	2440	170	0.495	0.018	0.179	0.180	1700	72.0
1600	92	2945	194	0.555	0.014	0.170	0.171	1850	96.0
2000	97	3475	197	0.589	0.012	0.166	0.166	1950	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
POPB-T 132/76 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	330	400	400	482	387	502	569	331	435	496
240	437	527	530	644	523	680	772	443	585	668
300	491	590	597	726	592	770	874	500	661	754
400	560	673	683	833	687	893	1014	577	763	872
500	639	759	778	954	794	1034	1175	661	878	1004
630	735	863	897	1106	918	1199	1365	758	1008	1155
800	825	955	1009	1251	1045	1370	1560	851	1136	1305
1000	942	1077	1152	1433	1218	1595	1815	998	1331	1528
1200	1019	1154	1249	1561	1337	1755	2000	1081	1447	1665
1600	1179	1319	1450	1834	1572	2072	2366	1243	1673	1930
2000	1290	1430	1592	2026	1754	2317	2650	1367	1846	2134

Laying	buried									
	 touching									
Mode	Regular service		industrial service		Emerg. service ³⁾	Regular service		Emerg. service ³⁾		
Conductor temperature 60 °C ¹⁾	≤ 80 °C	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	327	330	392	369	442	485	324	326	389	482
240	424 ¹⁾	424	514	487	584	641	416 ¹⁾	416	504	633
300	474 ¹⁾	474	576	547	656	721	461 ¹⁾	461	564	708
400	536 ¹⁾	536	657	625	751	825	519 ¹⁾	519	641	808
500	601 ¹⁾	601	743	709	853	939	569 ¹⁾	569	714	907
630	673 ¹⁾	673	841	804	971	1069	629 ¹⁾	629	798	1023
800	739 ¹⁾	739	933	894	1083	1195	681 ¹⁾	681	877	1133
1000	845 ¹⁾	845	1074	1035	1254	1384	733 ¹⁾	733	964	1257
1200	892 ¹⁾	892	1148	1109	1347	1490	736 ¹⁾	736	987	1305
1600	983 ¹⁾	983	1290	1252	1529	1695	887 ¹⁾	787	1078	1444
2000	1058 ¹⁾	1058	1400	1362	1669	1855	827 ¹⁾	827	1145	1547

- ¹⁾ Conductor temperature limited by max. permissible lead sheath temperature 65° or by transfer temperature to earth of 50°C
- ²⁾ Lead sheath temperature limit of 65°C and transfer temperature to earth of 50°C usually exceeded.
- ³⁾ Emergency service for max. 8h/day and 100h/year (lead sheath temperature limit of 65°C and transfer temperature to earth of 50°C exceeded)

Notice:

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

