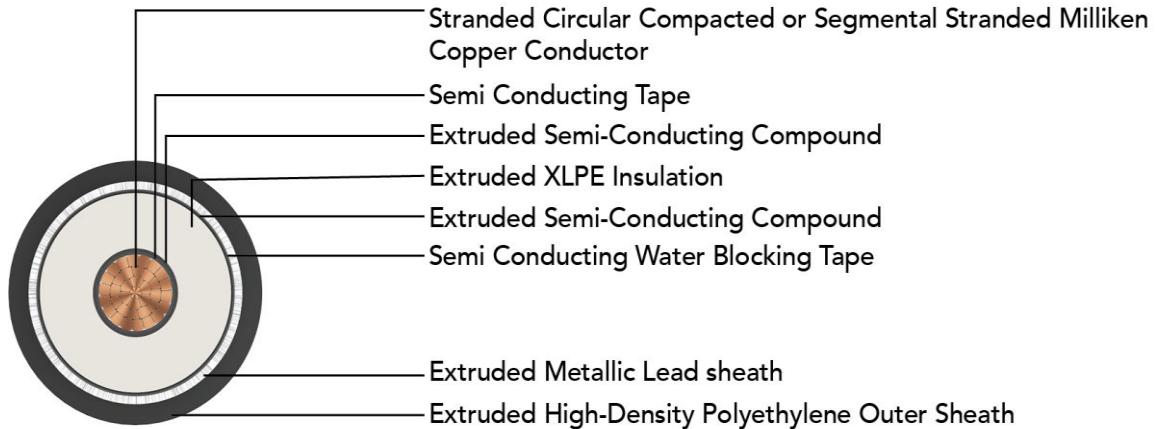


POLYCAT HV PB IEC 62067 127/220 kV (245 kV)

HV Cable with Copper Conductor, Lead Sheath



Outstanding Features

- High life
- UV resistance
- Longitudinal water resistant
- Radial water resistant

Application

POLYCAT HV 127/220 KV (245 KV) XLPE insulated cable with copper conductor is suitable to use in high voltage transmission for external and direct burial applications in power network system.

Voltage Rating

Nominal Voltage: 127/220 KV (245 KV)

Bending Radius: 20D

: D is overall diameter of cable

Operation Temperature

Max. operating temperature: +90°C

Max. Short Circuit Temperature: 250°C

Standard and References:

IEC 60228

IEC 62067

IS 7098-3

ICEA S-108-720

Construction

- Conductor: Circular Compacted or segmental stranded Milliken Copper conductor as per IEC 60228, class 2
- Separator: Semi Conducting Tape
- Conductor Screen: Extruded Semi-conductive compound
- Insulation: Crosslinked polyethylene
- Non-Metallic Insulation Screen: Extruded Semi-conductive compound
- Separator: Semi Conducting Water Blocking Tape
- Inner Sheath: Extruded Metallic Lead
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), Colour: Black
- Optional Semi-conductive layer

Impulse Test Voltage

1050kV

Compliance

- Conductor resistance IEC 60228



OUR ACCREDITATION



POLYCAP HV PB IEC 62067 127/220 kV (245 kV)

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DIMENSIONS AND WEIGHT:

Product Code	No. of Cores No.	Core Cross sectional Area mm ²	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
							Kg/Km
EHIS27CXUAPH001C400SAXXXX	1	400	Compact	27	4	96.0	17600
EHIS27CXUAPH001C500SAXXXX	1	500	Compact	27	4	100.0	19300
EHIS27CXUAPH001C630SAXXXX	1	630	Compact	27	4	103.0	21100
EHIS27CXUAPH001C800SAXXXX	1	800	Compact	27	4	107.0	23700
EHIS27CXUAPH001C01KSAXXXX	1	1000	Compact	27	4	113.0	28000
EHIS27CXUAPH001C1K2SAXXXX	1	1200	Milliken	27	4	120.0	31600
EHIS27CXUAPH001C1K4SAXXXX	1	1400	Milliken	27	4	124.0	34800
EHIS27CXUAPH001C1K6SAXXXX	1	1600	Milliken	27	4	127.0	37300
EHIS27CXUAPH001C1K8SAXXXX	1	1800	Milliken	27	4	131.0	40300
EHIS27CXUAPH001C02KSAXXXX	1	2000	Milliken	27	4	133.0	42700
EHIS27CXUAPH001C2K5SAXXXX	1	2500	Milliken	27	4	139.0	48700

ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm ²	Max. DC Resistance at 20°C Ω/km	Max. AC Resistance at 90°C Ω/km	Approx. Star Reactance Ω/km	Approx. Star Impedance Ω/km	Approx. Capacitance μF/km	Surge Impedance Ω	Cable Zero sequence Resistance Ω/km	Cable Zero sequence Reactance Ω/km	Cable Zero sequence Impedance Ω/km
400	0.0470	0.0615	0.154	0.166	0.12	64	0.130	0.102	0.165
500	0.0366	0.0488	0.148	0.156	0.13	60	0.122	0.0959	0.155
630	0.0283	0.0388	0.142	0.147	0.14	57	0.115	0.0902	0.146
800	0.0221	0.0316	0.136	0.140	0.15	54	0.111	0.0852	0.140
1000	0.0176	0.0266	0.131	0.134	0.17	50	0.109	0.0804	0.135
1200	0.0151	0.0203	0.126	0.128	0.18	47	0.107	0.0760	0.131
1400	0.0129	0.0177	0.123	0.124	0.19	45	0.106	0.0731	0.129
1600	0.0113	0.0158	0.121	0.122	0.20	44	0.108	0.0707	0.129
1800	0.0101	0.0145	0.119	0.120	0.21	42	0.108	0.0691	0.128
2000	0.0090	0.0132	0.117	0.118	0.21	42	0.111	0.0672	0.130
2500	0.0072	0.0113	0.113	0.114	0.23	40	0.115	0.0635	0.131

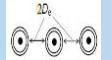
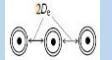
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POLYCAP HV PB IEC 62067 127/220 kV (245 kV)

HV Cable with Copper Conductor, Lead Sheath

CURRENT RATING:

Core Cross sectional Area	Continuous current ratings for 3 single core cables, single ended bonded				Short Circuit Rating for 1 Sec.	
	In ground		In air			
	Trefoil	Flat	Trefoil	Flat		
						
mm ²	Amps				KAmps	
400	539	578	772	851	57.2	
500	608	657	889	986	71.5	
630	682	743	1018	1139	90.1	
800	755	831	1151	1299	114.4	
1000	823	917	1282	1463	143.0	
1200	934	1045	1493	1705	171.6	
1400	995	1122	1618	1863	200.2	
1600	1049	1193	1729	2006	228.8	
1800	1093	1253	1823	2127	257.4	
2000	1140	1315	1926	2262	286.0	
2500	1228	1437	2124	2533	357.5	

Current ratings based on IEC 60287

Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W



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