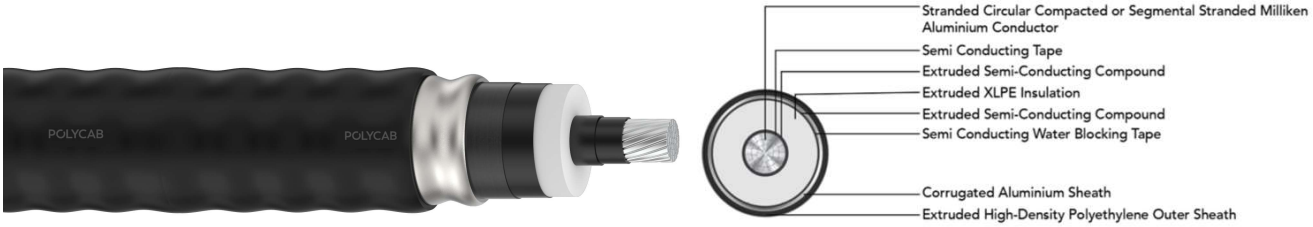
POLYCAB HV. AL.COR IEC 62067 127/220 KV (245 KV)
HV Cable with AL Conductor, AL Corrugated Sheath



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB HV 127/220 KV (145 kV) XLPE insulated cable with Aluminium conductor is suitable to use in high voltage transmission for external and direct burial applications in power network system.

CHARACTERISTICS

Voltage Rating
Nominal Voltage: 127/220 kV (145 kV)

Operation Temperature
Max. operating temperature: +90°C
Max. Short Circuit Temperature: 250°C

Bending Radius: 20D
: D is overall diameter of cable

Impulse Test Voltage
1050kV

CONSTRUCTION

- Conductor: Circular Compacted or segmental stranded Milliken Aluminium 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
- Shield: Aluminium Corrugated Sheath
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, also available per request), Colour: Black
- Optional Semi-conductive layer

OUTSTANDING FEATURES

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

STANDARD FOLLOWS

IEC 60228
IEC 62067
IS 7098-3
ICEA S-108-720

COMPLIANCE

• Conductor resistance IEC 60228

OUR ACCREDITATIONS

NABL

APPROVAL

CPRI APPROVED FQC

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POLYCAB
IDEAS. CONNECTED.

DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area	Conductor type	Insulation thickness (Approx.)	Sheath thickness (Approx.)	Diameter Overall (Nominal)	Weight (Approx.)
	No.	mm^2		mm	mm	mm	Kg/Km
EHIS27AXATPH001C400SAXXXX	1	400	Compact	27	4	100.0	10000
EHIS27AXATPH001C500SAXXXX	1	500	Compact	27	4	104.0	10800
EHIS27AXATPH001C630SAXXXX	1	630	Compact	27	4	107.0	11600
EHIS27AXATPH001C800SAXXXX	1	800	Compact	27	4	111.0	11900
EHIS27AXATPH001C01KSAXXXX	1	1000	Compact	27	4	116.0	13100
EHIS27AXATPH001C1K2SAXXXX	1	1200	Milliken	27	4	123.0	14700
EHIS27AXATPH001C1K4SAXXXX	1	1400	Milliken	27	4	127.0	15700
EHIS27AXATPH001C1K6SAXXXX	1	1600	Milliken	27	4	130.0	16700
EHIS27AXATPH001C1K8SAXXXX	1	1800	Milliken	27	4	133.0	17600
EHIS27AXATPH001C02KSAXXXX	1	2000	Milliken	27	4	136.0	18400
EHIS27AXATPH001C2K5SAXXXX	1	2500	Milliken	27	4	142.0	20500

ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area	Max. DC Resistance at 20°C	Max. AC Resistance at 90°C	Approx. Star Reactance	Approx. Star Impedance	Approx. Capacitance	Surge Impedance	Cable Zero sequence Resistance	Cable Zero sequence Reactance	Cable Zero sequence Impedance
mm^2	Ω/km	Ω/km	Ω/km	Ω/km	µF/km	Ω	Ω/km	Ω/km	Ω/km
400	0.0778	0.101	0.157	0.187	0.12	65	0.143	0.104	0.177
500	0.0605	0.0789	0.150	0.169	0.13	61	0.125	0.0977	0.159
630	0.0469	0.0618	0.145	0.158	0.14	57	0.112	0.0925	0.145
800	0.0367	0.0493	0.139	0.147	0.15	54	0.102	0.0870	0.134
1000	0.0291	0.0401	0.133	0.139	0.17	50	0.0944	0.0817	0.125
1200	0.0247	0.0319	0.129	0.133	0.18	48	0.0845	0.0772	0.114
1400	0.0212	0.0275	0.125	0.128	0.19	46	0.0792	0.0743	0.109
1600	0.0186	0.0242	0.123	0.125	0.20	44	0.0750	0.0719	0.104
1800	0.0165	0.0216	0.121	0.123	0.21	43	0.0712	0.0703	0.100
2000	0.0149	0.0196	0.119	0.121	0.21	42	0.0683	0.0683	0.0966
2500	0.0127	0.0169	0.115	0.116	0.23	40	0.0635	0.0646	0.0906

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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	422	450	593	649	37.6
500	479	514	687	755	47.0
630	542	586	791	874	59.2
800	607	662	905	1007	75.2
1000	672	740	1025	1150	94.0
1200	747	830	1169	1316	112.8
1400	799	896	1272	1443	131.6
1600	844	954	1365	1560	150.4
1800	885	1011	1451	1671	169.2
2000	920	1062	1531	1777	188.0
2500	975	1146	1669	1966	235.0

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