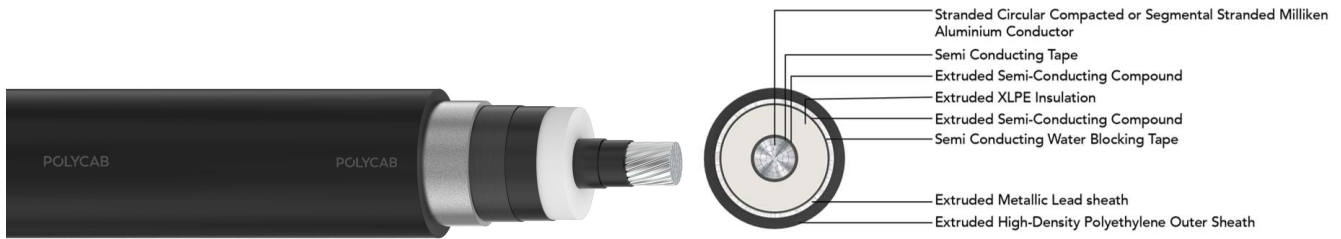


POLYCAB HV. PB IEC 60840 38/66 KV (72.5 KV)

HV Cable with Aluminium Conductor, Lead Sheath



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB HV 38/66 KV (72.5 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: 38/66 kV (72.5 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

325kV

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
- Inner Sheath: Extruded Metallic Lead alloy
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), Colour: Black
- Optional Semi-conductive layer

OUTSTANDING FEATURES

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

STANDARD FOLLOWS

IEC 60228

IEC 60840

IS 7098-3

ICEA S-108-720

COMPLIANCE

- Conductor resistance IEC 60228

OUR ACCREDITATIONS



APPROVAL



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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
EHIS24AXUAPH001C400SAXXXX	1	400	Compact	11	3.2	63.0	7600
EHIS24AXUAPH001C500SAXXXX	1	500	Compact	11	3.4	67.0	8500
EHIS24AXUAPH001C630SAXXXX	1	630	Compact	11	3.4	70.0	9400
EHIS24AXUAPH001C800SAXXXX	1	800	Compact	11	3.6	75.0	10600
EHIS24AXUAPH001C01KSAXXXX	1	1000	Compact	11	3.8	81.0	12700
EHIS24AXUAPH001C1K2SAXXXX	1	1200	Milliken	11	4	88.0	14600
EHIS24AXUAPH001C1K4SAXXXX	1	1400	Milliken	11	4	93.0	16100
EHIS24AXUAPH001C1K6SAXXXX	1	1600	Milliken	11	4	96.0	17200
EHIS24AXUAPH001C1K8SAXXXX	1	1800	Milliken	11	4	99.0	18600
EHIS24AXUAPH001C02KSAXXXX	1	2000	Milliken	11	4	102.0	19600
EHIS24AXUAPH001C2K5SAXXXX	1	2500	Milliken	11	4	108.0	22400

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	0.127	0.162	0.22	43	0.171	0.0716	0.185
500	0.0605	0.0792	0.121	0.145	0.25	39	0.155	0.0668	0.169
630	0.0469	0.0624	0.117	0.133	0.27	37	0.143	0.0629	0.156
800	0.0367	0.0500	0.113	0.124	0.29	35	0.136	0.0591	0.148
1000	0.0291	0.0410	0.109	0.116	0.32	33	0.131	0.0555	0.142
1200	0.0247	0.0321	0.105	0.110	0.35	31	0.126	0.0521	0.136
1400	0.0212	0.0277	0.103	0.107	0.38	29	0.125	0.0505	0.135
1600	0.0186	0.0245	0.101	0.104	0.4	28	0.126	0.0489	0.135
1800	0.0165	0.0219	0.0998	0.102	0.41	28	0.125	0.0477	0.134
2000	0.0149	0.0199	0.0982	0.100	0.43	27	0.126	0.0464	0.134
2500	0.0127	0.0173	0.0954	0.0970	0.47	25	0.130	0.0440	0.137

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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			
400	432	458	631	724	37.6
500	491	523	734	847	47.0
630	556	597	847	984	59.2
800	625	676	971	1139	75.2
1000	693	758	1102	1306	94.0
1200	783	855	1275	1505	112.8
1400	844	927	1393	1653	131.6
1600	898	993	1503	1794	150.4
1800	947	1055	1604	1928	169.2
2000	993	1113	1702	2058	188.0
2500	1069	1213	1877	2296	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