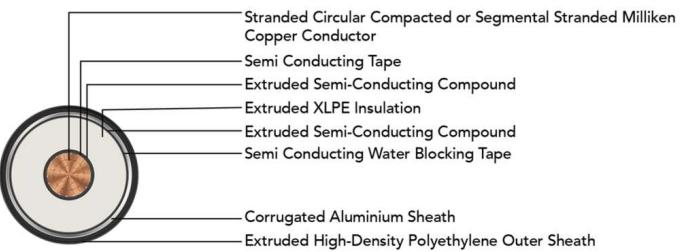


POLY CAB HV AL.COR IEC 60840 64/110 KV (123 KV) HV Cable with Copper Conductor, Aluminium Corrugated Sheath

POLY CAB
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB HV 64/110 KV (123 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.

CHARACTERISTICS

Voltage Rating

Nominal Voltage: 64/110 KV (123 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

550kV

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
- 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 60840

IS 7098-3

ICEA S-108-720

COMPLIANCE

- Conductor resistance IEC 60228

OUR ACCREDITATIONS



APPROVAL



POLY CAB HV AL.COR IEC 60840 64/110 KV (123 KV)
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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
EHIS25CXATPH001C240SAXXXX	1	240	Compact	16	3.6	75.0	7700
EHIS25CXATPH001C300SAXXXX	1	300	Compact	16	3.6	77.0	8400
EHIS25CXATPH001C400SAXXXX	1	400	Compact	16	3.8	80.0	9400
EHIS25CXATPH001C500SAXXXX	1	500	Compact	16	4	84.0	10900
EHIS25CXATPH001C630SAXXXX	1	630	Compact	16	4	87.0	12500
EHIS25CXATPH001C800SAXXXX	1	800	Compact	16	4	91.0	13700
EHIS25CXATPH001C01KSAXXXX	1	1000	Compact	16	4	96.0	15900
EHIS25CXATPH001C1K2SAXXXX	1	1200	Milliken	16	4	103.0	18500
EHIS25CXATPH001C1K4SAXXXX	1	1400	Milliken	16	4	107.0	20600
EHIS25CXATPH001C1K6SAXXXX	1	1600	Milliken	16	4	110.0	22700
EHIS25CXATPH001C1K8SAXXXX	1	1800	Milliken	16	4	113.0	24800
EHIS25CXATPH001C02KSAXXXX	1	2000	Milliken	16	4	116.0	26700
EHIS25CXATPH001C2K5SAXXXX	1	2500	Milliken	16	4	122.0	31700

ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area	Max. DC Resistance at 20°C	Max. AC Resistance at 90°C	Approx. Reactance	Approx. 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
240	0.0754	0.0972	0.154	0.182	0.15	57	0.16	0.0985	0.188
300	0.0601	0.0780	0.148	0.167	0.16	54	0.145	0.0932	0.172
400	0.0470	0.0617	0.142	0.155	0.17	52	0.131	0.0874	0.157
500	0.0366	0.0490	0.136	0.145	0.19	48	0.12	0.0816	0.145
630	0.0283	0.0391	0.130	0.136	0.20	45	0.113	0.0763	0.136
800	0.0221	0.0320	0.125	0.129	0.22	43	0.106	0.0718	0.128
1000	0.0176	0.0270	0.121	0.124	0.24	40	0.101	0.0675	0.121
1200	0.0151	0.0204	0.117	0.119	0.26	38	0.0905	0.0638	0.111
1400	0.0129	0.0178	0.114	0.115	0.28	36	0.0855	0.0615	0.105
1600	0.0113	0.0160	0.112	0.113	0.29	35	0.0817	0.0595	0.101
1800	0.0101	0.0146	0.110	0.111	0.30	34	0.0784	0.0579	0.0975
2000	0.0090	0.0134	0.108	0.109	0.32	33	0.0754	0.0562	0.094
2500	0.0072	0.0115	0.105	0.106	0.35	31	0.07	0.0531	0.0879

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CURRENT RATING:

Core Cross sectional Area mm ²	Continuous current ratings for 3 single core cables, single ended bonded		Short Circuit Rating for 1 Sec.	
	In ground	In air	Trefoil	Flat
240	427	452	591	653
300	479	509	671	745
400	541	579	772	862
500	609	657	887	999
630	683	744	1015	1155
800	754	832	1144	1317
1000	819	918	1270	1480
1200	927	1042	1476	1721
1400	982	1120	1591	1876
1600	1027	1185	1689	2013
1800	1063	1237	1772	2133
2000	1098	1294	1856	2259
2500	1159	1400	2016	2510
				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