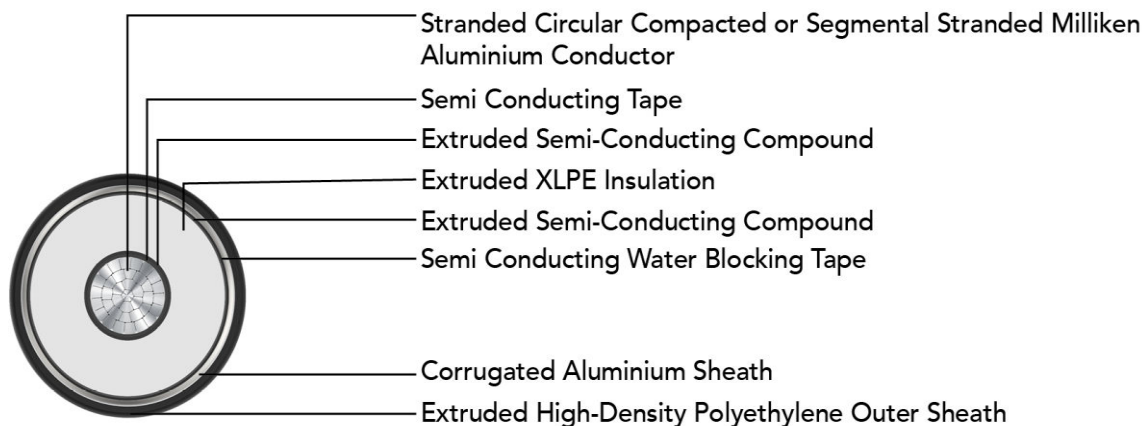


POLYCAB HV AL.COR IEC 60840 38/66 kV (72.5 kV)

HV Cable with Aluminium Conductor, Aluminium Corrugated Sheath



Outstanding Features

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

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.

Voltage Rating

Nominal Voltage: 38/66 kV (72.5 kV)

Operation Temperature

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

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

Bending Radius: 20D

: D is overall diameter of cable

Standard and References:

IEC 60228
IEC 60840
IS 7098-3
ICEA S-108-720

Impulse Test Voltage

325kV

Compliance

- Conductor resistance IEC 60228



OUR ACCREDITATION



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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
EHIS24AXATPH001C400SAXXXX	1	400	Compact	11	3.4	69.0	5700
EHIS24AXATPH001C500SAXXXX	1	500	Compact	11	3.6	73.0	6400
EHIS24AXATPH001C630SAXXXX	1	630	Compact	11	3.6	76.0	7000
EHIS24AXATPH001C800SAXXXX	1	800	Compact	11	3.8	80.0	7400
EHIS24AXATPH001C01KSAXXXX	1	1000	Compact	11	4	86.0	8400
EHIS24AXATPH001C1K2SAXXXX	1	1200	Milliken	11	4	93.0	9700
EHIS24AXATPH001C1K4SAXXXX	1	1400	Milliken	11	4	97.0	10600
EHIS24AXATPH001C1K6SAXXXX	1	1600	Milliken	11	4	100.0	11400
EHIS24AXATPH001C1K8SAXXXX	1	1800	Milliken	11	4	103.0	12200
EHIS24AXATPH001C02KSAXXXX	1	2000	Milliken	11	4	106.0	12900
EHIS24AXATPH001C2K5SAXXXX	1	2500	Milliken	11	4	112.0	14700

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	0.0778	0.101	0.134	0.168	0.22	44	0.165	0.0782	0.183
500	0.0605	0.0791	0.128	0.150	0.25	40	0.148	0.0726	0.165
630	0.0469	0.0622	0.123	0.138	0.27	38	0.133	0.0684	0.150
800	0.0367	0.0498	0.118	0.128	0.29	36	0.121	0.0640	0.137
1000	0.0291	0.0408	0.114	0.121	0.32	34	0.113	0.0598	0.128
1200	0.0247	0.0321	0.110	0.115	0.35	32	0.107	0.0560	0.121
1400	0.0212	0.0277	0.107	0.111	0.38	30	0.102	0.0540	0.115
1600	0.0186	0.0244	0.105	0.108	0.40	29	0.0966	0.0522	0.110
1800	0.0165	0.0218	0.104	0.106	0.41	28	0.0916	0.0511	0.105
2000	0.0149	0.0199	0.102	0.104	0.43	28	0.0875	0.0496	0.101
2500	0.0127	0.0172	0.0992	0.101	0.47	26	0.0805	0.0469	0.0932





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POLYCAB HV AL.COR IEC 60840 38/66 kV (72.5 kV)

HV Cable with Aluminium Conductor, Aluminium Corrugated 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	428	455	613	690	37.6
500	486	520	712	805	47.0
630	550	592	820	935	59.2
800	617	671	939	1080	75.2
1000	683	751	1063	1237	94.0
1200	769	846	1224	1423	112.8
1400	825	914	1334	1562	131.6
1600	874	977	1432	1689	150.4
1800	918	1036	1523	1811	169.2
2000	956	1089	1606	1925	188.0
2500	1015	1176	1749	2131	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

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