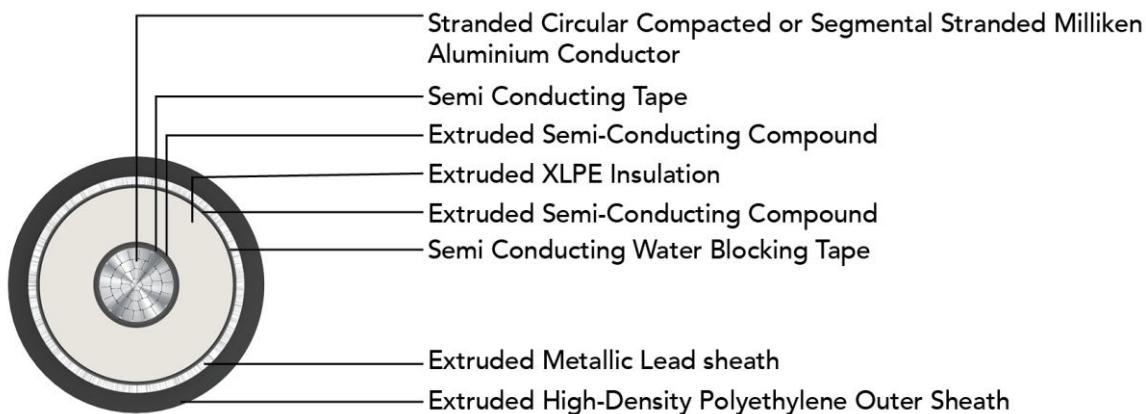


POLYCAT HV PB IEC 60840 64/110 kV (123 kV)

HV Cable with Aluminium Conductor, Lead Sheath



Outstanding Features

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

Application

POLYCAT HV 64/110 KV (123 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: 64/110 KV (123 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 60840

IS 7098-3

ICEA S-108-720

Impulse Test Voltage

550kV

Compliance

- Conductor resistance IEC 60228



OUR ACCREDITATION



POLY CAB HV PB IEC 60840 64/110 kV (123 kV)

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DIMENSIONS AND WEIGHT:

| Product Code | No. of Cores | Core Cross sectional Area mm ² | Conductor type | Insulation thickness (Approx.) mm | Sheath thickness (Approx.) mm | Diameter Overall (Nominal) mm | Weight (Approx.) Kg/Km |
|---------------------------|--------------|---|----------------|-----------------------------------|-------------------------------|-------------------------------|------------------------|
| | No. | | | | | | |
| EHIS25AXUAPH001C400SAXXXX | 1 | 400 | Compact | 16 | 3.6 | 74.0 | 9900 |
| EHIS25AXUAPH001C500SAXXXX | 1 | 500 | Compact | 16 | 3.8 | 79.0 | 10900 |
| EHIS25AXUAPH001C630SAXXXX | 1 | 630 | Compact | 16 | 3.8 | 82.0 | 11800 |
| EHIS25AXUAPH001C800SAXXXX | 1 | 800 | Compact | 16 | 4 | 86.0 | 13200 |
| EHIS25AXUAPH001C01KSAXXXX | 1 | 1000 | Compact | 16 | 4 | 92.0 | 15500 |
| EHIS25AXUAPH001C1K2SAXXXX | 1 | 1200 | Milliken | 16 | 4 | 99.0 | 17500 |
| EHIS25AXUAPH001C1K4SAXXXX | 1 | 1400 | Milliken | 16 | 4 | 103.0 | 18900 |
| EHIS25AXUAPH001C1K6SAXXXX | 1 | 1600 | Milliken | 16 | 4 | 106.0 | 20000 |
| EHIS25AXUAPH001C1K8SAXXXX | 1 | 1800 | Milliken | 16 | 4 | 110.0 | 21500 |
| EHIS25AXUAPH001C02KSAXXXX | 1 | 2000 | Milliken | 16 | 4 | 112.0 | 22600 |
| EHIS25AXUAPH001C2K5SAXXXX | 1 | 2500 | Milliken | 16 | 4 | 118.0 | 25800 |

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 | 0.136 | 0.169 | 0.17 | 51 | 0.175 | 0.0825 | 0.193 |
| 500 | 0.0605 | 0.0791 | 0.131 | 0.153 | 0.19 | 47 | 0.161 | 0.0771 | 0.179 |
| 630 | 0.0469 | 0.0621 | 0.126 | 0.140 | 0.20 | 45 | 0.149 | 0.0727 | 0.166 |
| 800 | 0.0367 | 0.0497 | 0.121 | 0.131 | 0.22 | 42 | 0.142 | 0.0683 | 0.158 |
| 1000 | 0.0291 | 0.0407 | 0.117 | 0.124 | 0.24 | 39 | 0.138 | 0.0642 | 0.152 |
| 1200 | 0.0247 | 0.0320 | 0.113 | 0.117 | 0.26 | 37 | 0.133 | 0.0604 | 0.146 |
| 1400 | 0.0212 | 0.0276 | 0.110 | 0.113 | 0.28 | 35 | 0.133 | 0.0583 | 0.145 |
| 1600 | 0.0186 | 0.0244 | 0.108 | 0.111 | 0.29 | 34 | 0.134 | 0.0565 | 0.145 |
| 1800 | 0.0165 | 0.0218 | 0.106 | 0.108 | 0.30 | 34 | 0.134 | 0.0550 | 0.145 |
| 2000 | 0.0149 | 0.0198 | 0.104 | 0.106 | 0.32 | 32 | 0.134 | 0.0534 | 0.144 |
| 2500 | 0.0127 | 0.0172 | 0.101 | 0.102 | 0.35 | 30 | 0.139 | 0.0504 | 0.148 |



OUR ACCREDITATION



POLY CAB HV PB IEC 60840 64/110 kV (123 kV)

HV Cable with Aluminium 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 | 433 | 458 | 625 | 703 | 37.6 | |
| 500 | 493 | 524 | 727 | 821 | 47.0 | |
| 630 | 559 | 598 | 839 | 954 | 59.2 | |
| 800 | 628 | 679 | 963 | 1104 | 75.2 | |
| 1000 | 698 | 761 | 1093 | 1264 | 94.0 | |
| 1200 | 787 | 858 | 1260 | 1456 | 112.8 | |
| 1400 | 849 | 930 | 1378 | 1601 | 131.6 | |
| 1600 | 904 | 996 | 1488 | 1739 | 150.4 | |
| 1800 | 956 | 1060 | 1591 | 1870 | 169.2 | |
| 2000 | 1001 | 1118 | 1687 | 1994 | 188.0 | |
| 2500 | 1079 | 1219 | 1859 | 2222 | 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 |



OUR ACCREDITATION

