

## Polycab Extra High Voltage cables

Polycab offers Extra high Voltage Cable with Copper as well as Aluminum conductor in the range of 66 KV to 220 KV for underground installation for 3 Phase AC circuit. Polycab's rich experience and advance technology made the cable superior to use for a service life of 40 years. These cables are mainly used to supply power from the power station to distribution unit or substation.

Polycab has set up it's largest High Voltage cable manufacturing plant in Halol, Gujarat districts near Mumbai invested in state-of the art machines like Maillifer, Scolz, John Royale along with a most modern testing facility. The plant is equipped with high automation for material feeding to avoid contamination and electrical failure as well as high speed stranding machines for classic conductor preparation.

### CONDUCTOR

In house developed high conductive Copper or Aluminum is used for EHV Cable for highest degree of transmission. Polycab supplies two types of conductors: Stranded compacted round and stranded segmental Milliken conductor beyond 800 Sq.mm.

The large conductor divides into no. of segments followed by converging spirally to form a circular conductor. The Combination of segmental structure suppress the skin effect and proximity effect resulting low conductor resistance and improving the current rating capacity.

Upon request Polycab can supply water tight conductor with improved design.



### CONDUCTOR SCREEN

The conductor screen consists of an extruded layer of semiconducting thermosetting compound which completely covers the whole surface of the conductor and firmly bonded to the XLPE insulation layer. A non hygroscopic semiconducting tape may be applied on the conductor if required.

### INSULATION

In-house developed high insulation resistance cross-linked polyethylene thermoset insulation compound.

### NON-METALLIC INSULATION SCREEN

An extruded layer of cross-linkable semi conducting compound, applied in triple extrusion with conductor screen and insulation extrusion, to eliminate micro voids and curing resulting longer life of cables

**Shield:** Copper wires / Aluminium wires / Aluminium corrugated sheath / lead (or) lead alloy sheath to carry fault current, semiconducting tape may be applied for wire shielding

**Outer Sheath:** In-house developed thermoplastic High Density polyethylene compound having low emission of smoke and corrosive gases when exposed to fire, semiconducting layer may be applied.



[POLYCAB HV CS+PAL IEC 60840 38/66 kV \(72.5 kV\) - Copper Conductor](#)



[POLYCAB HV CS+PAL IEC 60840 64/110 kV \(123 kV\) - Copper Conductor](#)



[POLYCAB HV CS+PAL IEC 60840 76/132 kV \(145 kV\) - Copper Conductor](#)



[POLYCAB HV CS+PAL IEC 60840 127/220 kV \(245 kV\) - Copper Conductor](#)



[POLYCAB HV CS+PB IEC 60840 38/66 kV \(72.5 kV\) - Copper Conductor](#)



[POLYCAB HV CS+PB IEC 60840 64/110 kV \(123 kV\) - Copper Conductor](#)



[POLYCAB HV CS+PB IEC 60840 76/132 kV \(145 kV\) - Copper Conductor](#)



[POLYCAB HV CS+PB IEC 60840 127/220 kV \(245 kV\) - Copper Conductor](#)



[POLYCAB HV AL.COR IEC 60840 38/66 kV \(72.5 kV\) - Copper Conductor](#)



[POLYCAB HV AL.COR IEC 60840 64/110 kV \(123 kV\) - Copper Conductor](#)



[POLYCAB HV AL.COR IEC 60840 76/132 kV \(145 kV\) - Copper Conductor](#)



[POLYCAB HV AL.COR IEC 60840 127/220 kV \(245 kV\) - Copper Conductor](#)



[POLYCAB HV PB IEC 60840 38/66 kV \(72.5 kV\) - Copper Conductor](#)



[POLYCAB HV PB IEC 60840 64/110 kV \(123 kV\) - Copper Conductor](#)



[POLYCAB HV PB IEC 60840 76/132 kV \(145 kV\) - Copper Conductor](#)



[POLYCAB HV PB IEC 60840 127/220 kV \(245 kV\) - Copper Conductor](#)



[POLYCAB HV CS+PAL IEC 60840 38/66 kV \(72.5 kV\) - Aluminium Conductor](#)



[POLYCAB HV CS+PAL IEC 60840 64/110 kV \(123 kV\) - Aluminium Conductor](#)



[POLYCAB HV CS+PAL IEC 60840 76/132 kV \(145 kV\) - Aluminium Conductor](#)



[POLYCAB HV CS+PAL IEC 60840 127/220 kV \(245 kV\) - Aluminium Conductor](#)



[POLYCAB HV CS+PB IEC 60840 38/66 kV \(72.5 kV\) - Aluminium Conductor](#)



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[POLYCAB HV PB IEC 60840 38/66 kV \(72.5 kV\) - Aluminium Conductor](#)



[POLYCAB HV PB IEC 60840 64/110 kV \(123 kV\) - Aluminium Conductor](#)



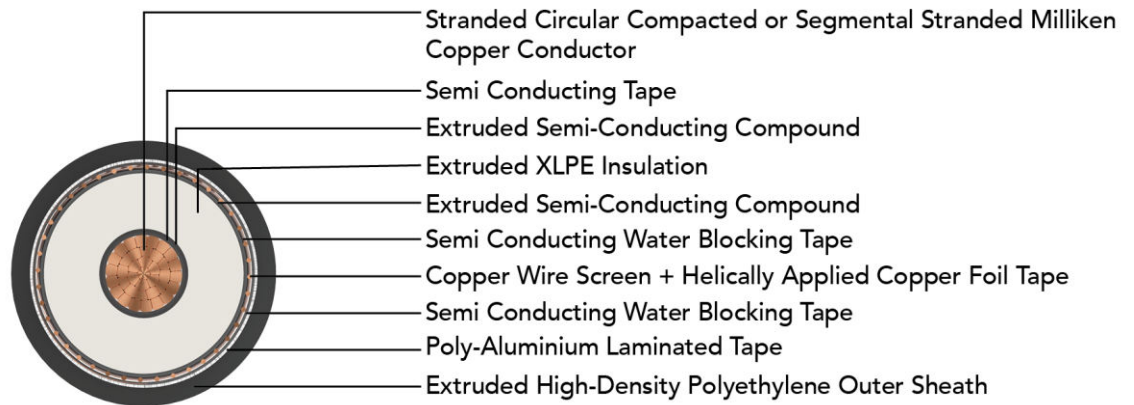
[POLYCAB HV PB IEC 60840 76/132 kV \(145 kV\) - Aluminium Conductor](#)



[POLYCAB HV PB IEC 60840 127/220 kV \(245 kV\) - Aluminium Conductor](#)

## POLYCAB HV CS+PAL IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated



#### 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 copper 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 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- Separator: Semi Conducting Water Blocking Tape
- Shield: Poly-Al. laminated Tape
- Outer Sheath: Extruded High-density polyethylene (HDPE), 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



## POLYCAB HV CS+PAL IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly. Al laminated

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.) Kg/Km
EHIS24CXUAPH001C240SAXXXX	1	240	Compact	11	3	57.0	5300
EHIS24CXUAPH001C300SAXXXX	1	300	Compact	11	3	59.0	6000
EHIS24CXUAPH001C400SAXXXX	1	400	Compact	11	3.2	62.0	6900
EHIS24CXUAPH001C500SAXXXX	1	500	Compact	11	3.2	65.0	8300
EHIS24CXUAPH001C630SAXXXX	1	630	Compact	11	3.4	69.0	9800
EHIS24CXUAPH001C800SAXXXX	1	800	Compact	11	3.6	73.0	11100
EHIS24CXUAPH001C01KSAXXXX	1	1000	Compact	11	3.8	79.0	13300
EHIS24CXUAPH001C1K2SAXXXX	1	1200	Milliken	11	3.8	82.0	15300
EHIS24CXUAPH001C1K4SAXXXX	1	1400	Milliken	11	4	86.0	17400
EHIS24CXUAPH001C1K6SAXXXX	1	1600	Milliken	11	4	89.0	19400
EHIS24CXUAPH001C1K8SAXXXX	1	1800	Milliken	11	4	93.0	21400
EHIS24CXUAPH001C02KSAXXXX	1	2000	Milliken	11	4	95.0	23300
EHIS24CXUAPH001C2K5SAXXXX	1	2500	Milliken	11	4	101.0	28100

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
240	0.0754	0.0973	0.133	0.165	0.19	47	0.156	0.0781	0.174
300	0.0601	0.0782	0.128	0.150	0.21	44	0.141	0.0735	0.159
400	0.0470	0.0620	0.123	0.138	0.22	42	0.128	0.0687	0.145
500	0.0366	0.0494	0.118	0.128	0.25	39	0.118	0.0639	0.134
630	0.0283	0.0397	0.113	0.120	0.27	37	0.110	0.0598	0.125
800	0.0221	0.0327	0.109	0.114	0.29	35	0.105	0.0562	0.119
1000	0.0176	0.0279	0.106	0.110	0.32	32	0.101	0.0530	0.114
1200	0.0151	0.0206	0.102	0.104	0.35	30	0.095	0.0497	0.107
1400	0.0129	0.0181	0.100	0.102	0.38	29	0.0933	0.0481	0.105
1600	0.0113	0.0162	0.0987	0.100	0.40	28	0.0918	0.0465	0.103
1800	0.0101	0.0149	0.0973	0.0984	0.41	27	0.0907	0.0454	0.101
2000	0.0090	0.0137	0.0957	0.0967	0.43	27	0.0898	0.0441	0.100
2500	0.0072	0.0119	0.0928	0.0936	0.47	25	0.0882	0.0417	0.0976





#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly. Al laminated

#### 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 <sup>2</sup>	Amps				KAmps
240	435	455	607	690	34.3
300	490	514	692	789	42.9
400	556	585	801	916	57.2
500	631	668	927	1067	71.5
630	713	760	1069	1239	90.1
800	795	855	1214	1420	114.4
1000	873	947	1358	1605	143.0
1200	1027	1095	1632	1895	171.6
1400	1107	1187	1782	2077	200.2
1600	1176	1267	1915	2242	228.8
1800	1235	1338	2031	2390	257.4
2000	1296	1411	2153	2549	286.0
2500	1412	1558	2397	2876	357.5

Current ratings based on IEC 60287

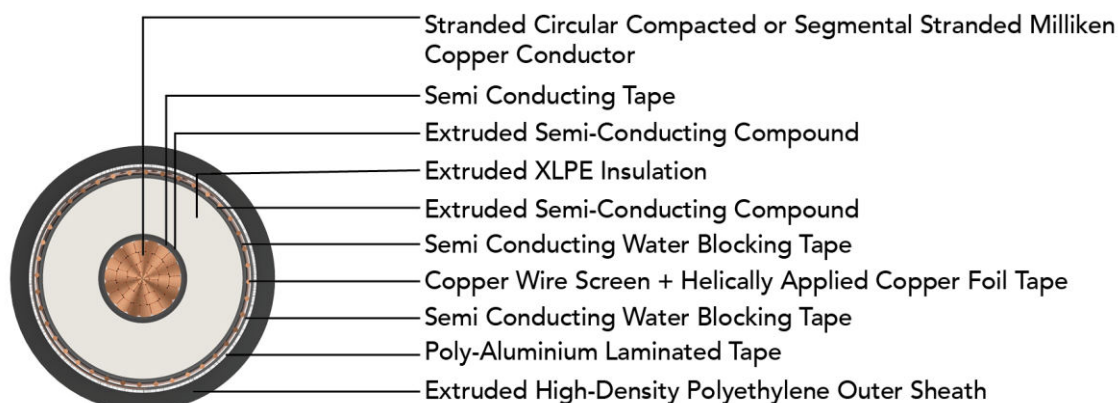
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACREDITATION



## POLYCAB HV CS+PAL IEC 60840 64/110 kV (123 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated



#### Outstanding Features

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

#### Application

POLYCAB 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.

#### Voltage Rating

Nominal Voltage: 64/110 kV (123 kV)

#### Operation Temperature

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

#### 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- Separator: Semi Conducting Water Blocking Tape
- Shield: Poly-Al. laminated Tape
- Outer Sheath: Extruded High-density polyethylene (HDPE), 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

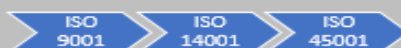
550kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION





## POLYCAB HV CS+PAL IEC 60840 64/110 kV (123 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS25CXUAPH001C240SAXXXX	1	240	Compact	16	3.4	67.0	6100
EHIS25CXUAPH001C300SAXXXX	1	300	Compact	16	3.4	70.0	6900
EHIS25CXUAPH001C400SAXXXX	1	400	Compact	16	3.6	73.0	7800
EHIS25CXUAPH001C500SAXXXX	1	500	Compact	16	3.6	76.0	9200
EHIS25CXUAPH001C630SAXXXX	1	630	Compact	16	3.8	80.0	10600
EHIS25CXUAPH001C800SAXXXX	1	800	Compact	16	4	84.0	12500
EHIS25CXUAPH001C01KSAXXXX	1	1000	Compact	16	4	89.0	14700
EHIS25CXUAPH001C1K2SAXXXX	1	1200	Milliken	16	4	94.0	16700
EHIS25CXUAPH001C1K4SAXXXX	1	1400	Milliken	16	4	100.0	18800
EHIS25CXUAPH001C1K6SAXXXX	1	1600	Milliken	16	4	103.0	20800
EHIS25CXUAPH001C1K8SAXXXX	1	1800	Milliken	16	4	106.0	22800
EHIS25CXUAPH001C02KSAXXXX	1	2000	Milliken	16	4	109.0	24700
EHIS25CXUAPH001C2K5SAXXXX	1	2500	Milliken	16	4	116.0	29600

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
240	0.0754	0.0972	0.144	0.174	0.15	55	0.156	0.0900	0.180
300	0.0601	0.0781	0.138	0.159	0.16	52	0.141	0.0851	0.165
400	0.0470	0.0618	0.133	0.147	0.17	50	0.128	0.0798	0.151
500	0.0366	0.0491	0.128	0.137	0.19	46	0.118	0.0744	0.139
630	0.0283	0.0393	0.122	0.128	0.20	44	0.110	0.0697	0.130
800	0.0221	0.0322	0.118	0.122	0.22	41	0.105	0.0656	0.124
1000	0.0176	0.0273	0.114	0.117	0.24	39	0.101	0.0617	0.118
1200	0.0151	0.0205	0.110	0.112	0.26	37	0.0953	0.0582	0.112
1400	0.0129	0.0179	0.108	0.109	0.28	35	0.0933	0.0560	0.109
1600	0.0113	0.0161	0.105	0.106	0.29	34	0.0918	0.0541	0.107
1800	0.0101	0.0147	0.104	0.105	0.30	33	0.0907	0.0527	0.105
2000	0.0090	0.0135	0.102	0.103	0.32	32	0.0898	0.0512	0.103
2500	0.0072	0.0117	0.0987	0.0994	0.35	30	0.0882	0.0483	0.101




#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 64/110 kV (123 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated

#### 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 <sup>2</sup>	Amps				KAmps
240	436	456	603	672	34.3
300	491	515	688	769	42.9
400	558	587	796	892	57.2
500	634	670	921	1037	71.5
630	718	762	1062	1204	90.1
800	802	859	1207	1379	114.4
1000	882	951	1352	1557	143.0
1200	1032	1099	1612	1833	171.6
1400	1114	1192	1761	2011	200.2
1600	1184	1272	1893	2173	228.8
1800	1244	1343	2009	2315	257.4
2000	1307	1418	2131	2469	286.0
2500	1427	1563	2374	2783	357.5

Current ratings based on IEC 60287

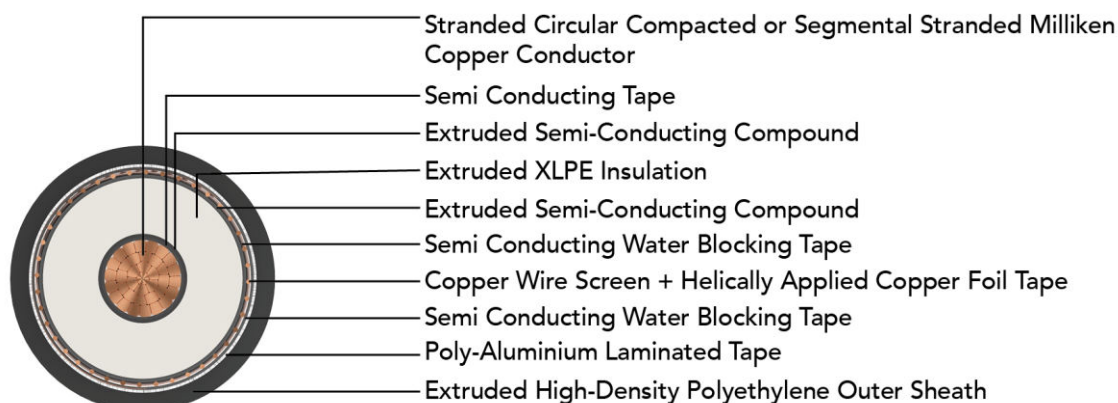
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated



#### Outstanding Features

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

#### Application

POLYCAB HV 76/132 KV (145 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.

#### Voltage Rating

Nominal Voltage: 76/132 kV (145 kV)

#### Operation Temperature

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

#### 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- Separator: Semi Conducting Water Blocking Tape
- Shield: Poly-Al. laminated Tape
- Outer Sheath: Extruded High-density polyethylene (HDPE), 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

650kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS26CXUAPH001C300SAXXXX	1	300	Compact	18	3.6	74.0	7800
EHIS26CXUAPH001C400SAXXXX	1	400	Compact	18	3.6	77.0	8700
EHIS26CXUAPH001C500SAXXXX	1	500	Compact	18	3.8	80.0	9800
EHIS26CXUAPH001C630SAXXXX	1	630	Compact	18	4	84.0	11300
EHIS26CXUAPH001C800SAXXXX	1	800	Compact	18	4	88.0	13100
EHIS26CXUAPH001C01KSAXXXX	1	1000	Compact	18	4	93.0	15400
EHIS26CXUAPH001C1K2SAXXXX	1	1200	Milliken	18	4	100.0	17400
EHIS26CXUAPH001C1K4SAXXXX	1	1400	Milliken	18	4	104.0	19500
EHIS26CXUAPH001C1K6SAXXXX	1	1600	Milliken	18	4	107.0	21600
EHIS26CXUAPH001C1K8SAXXXX	1	1800	Milliken	18	4	110.0	23600
EHIS26CXUAPH001C02KSAXXXX	1	2000	Milliken	18	4	114.0	25600
EHIS26CXUAPH001C2K5SAXXXX	1	2500	Milliken	18	4	119.0	30600

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
300	0.0601	0.0780	0.143	0.163	0.15	55	0.141	0.0896	0.167
400	0.0470	0.0617	0.137	0.150	0.16	52	0.128	0.0841	0.153
500	0.0366	0.0491	0.131	0.140	0.17	50	0.118	0.0785	0.142
630	0.0283	0.0392	0.126	0.132	0.19	46	0.110	0.0736	0.132
800	0.0221	0.0321	0.122	0.126	0.20	44	0.105	0.0693	0.126
1000	0.0176	0.0272	0.117	0.120	0.22	41	0.101	0.0653	0.120
1200	0.0151	0.0205	0.113	0.115	0.24	39	0.0953	0.0615	0.113
1400	0.0129	0.0179	0.110	0.111	0.25	37	0.0933	0.0592	0.110
1600	0.0113	0.0160	0.108	0.109	0.27	36	0.0918	0.0572	0.108
1800	0.0101	0.0147	0.106	0.107	0.28	35	0.0907	0.0557	0.106
2000	0.0090	0.0135	0.105	0.106	0.29	34	0.0898	0.0540	0.105
2500	0.0072	0.0116	0.101	0.102	0.31	32	0.0882	0.0510	0.102





#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated

#### 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 <sup>2</sup>	Amps				KAmps
300	491	515	686	761	42.9
400	559	588	793	883	57.2
500	635	671	918	1027	71.5
630	720	763	1059	1191	90.1
800	805	859	1204	1363	114.4
1000	885	954	1348	1540	143.0
1200	1034	1100	1604	1811	171.6
1400	1116	1193	1752	1987	200.2
1600	1187	1274	1884	2146	228.8
1800	1248	1343	1999	2286	257.4
2000	1311	1418	2120	2438	286.0
2500	1432	1567	2363	2747	357.5

Current ratings based on IEC 60287

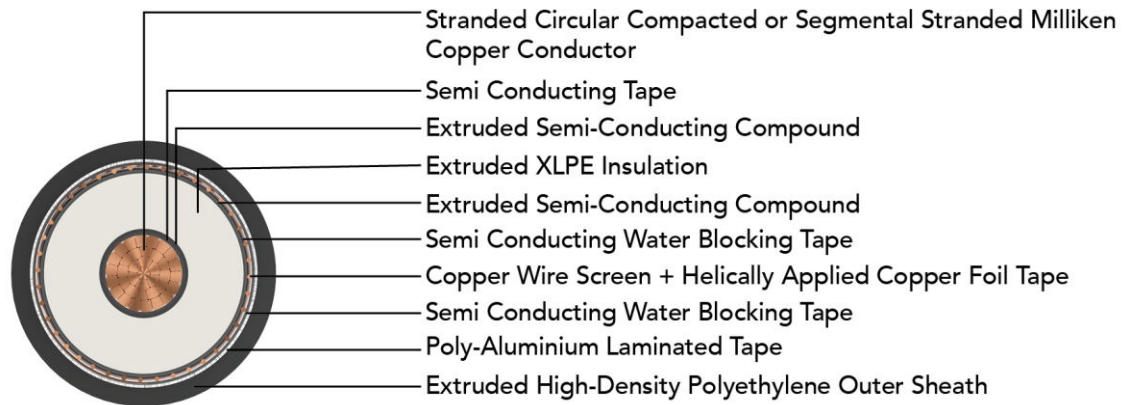
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated



#### Outstanding Features

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

#### Application

POLYCAB HV 127/220 KV (245 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.

#### Voltage Rating

Nominal Voltage: 127/220 kV (245 kV)

#### Operation Temperature

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

#### 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- Separator: Semi Conducting Water Blocking Tape
- Shield: Poly-Al. laminated Tape
- Outer Sheath: Extruded High-density polyethylene (HDPE), Colour: Black
- Optional Semi-conductive layer

#### Bending Radius: 20D

: D is overall diameter of cable

#### Standard and References:

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

#### Impulse Test Voltage

1050kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS27CXUAPH001C400SAXXXX	1	400	Compact	27	4	94.0	11200
EHIS27CXUAPH001C500SAXXXX	1	500	Compact	27	4	97.0	12200
EHIS27CXUAPH001C630SAXXXX	1	630	Compact	27	4	101.0	13700
EHIS27CXUAPH001C800SAXXXX	1	800	Compact	27	4	105.0	15700
EHIS27CXUAPH001C01KSAXXXX	1	1000	Compact	27	4	109.0	18000
EHIS27CXUAPH001C1K2SAXXXX	1	1200	Milliken	27	4	115.0	20100
EHIS27CXUAPH001C1K4SAXXXX	1	1400	Milliken	27	4	120.0	22300
EHIS27CXUAPH001C1K6SAXXXX	1	1600	Milliken	27	4	123.0	24500
EHIS27CXUAPH001C1K8SAXXXX	1	1800	Milliken	27	4	127.0	26600
EHIS27CXUAPH001C02KSAXXXX	1	2000	Milliken	27	4	130.0	28600
EHIS27CXUAPH001C2K5SAXXXX	1	2500	Milliken	27	4	136.0	33700

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.0470	0.0616	0.152	0.164	0.12	63	0.111	0.0999	0.149
500	0.0366	0.0488	0.145	0.153	0.13	60	0.101	0.0936	0.138
630	0.0283	0.0389	0.139	0.144	0.14	56	0.0934	0.0880	0.128
800	0.0221	0.0317	0.134	0.138	0.15	53	0.0878	0.0831	0.121
1000	0.0176	0.0267	0.129	0.132	0.17	49	0.0839	0.0783	0.115
1200	0.0151	0.0203	0.124	0.126	0.18	47	0.0785	0.0739	0.108
1400	0.0129	0.0177	0.121	0.122	0.19	45	0.0764	0.0711	0.104
1600	0.0113	0.0159	0.119	0.120	0.20	43	0.0750	0.0687	0.102
1800	0.0101	0.0145	0.117	0.118	0.21	42	0.0739	0.0672	0.0999
2000	0.0090	0.0133	0.115	0.116	0.21	42	0.0729	0.0653	0.0979
2500	0.0072	0.0113	0.111	0.112	0.23	39	0.0714	0.0616	0.0943





#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper Conductor, Copper Screen and Poly Al. laminated

#### 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 <sup>2</sup>	Amps				KAmps
400	554	583	778	850	57.2
500	630	665	900	986	71.5
630	714	756	1037	1141	90.1
800	799	852	1180	1305	114.4
1000	881	944	1323	1474	143.0
1200	1021	1086	1562	1726	171.6
1400	1102	1176	1706	1893	200.2
1600	1173	1257	1834	2043	228.8
1800	1234	1327	1946	2173	257.4
2000	1297	1399	2065	2315	286.0
2500	1419	1544	2303	2606	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

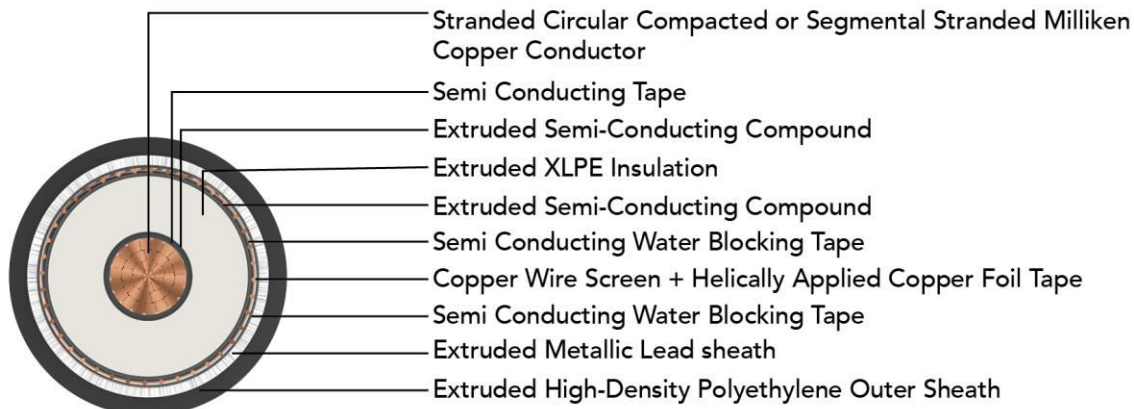
#### OUR ACREDITATION





## POLYCAB HV CS+PB IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Copper Conductor, Copper Screen and Lead 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 copper 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 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
- Metallic Insulation Screen: Copper Wires + helically applied Copper foil tape
- 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

#### 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



## POLYCAB HV CS+PB IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Copper Conductor, Copper Screen and Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.) Kg/Km
EHIS24CXUAPH001C240SAXXXX	1	240	Compact	11	3.2	62.0	9500
EHIS24CXUAPH001C300SAXXXX	1	300	Compact	11	3.2	64.0	10400
EHIS24CXUAPH001C400SAXXXX	1	400	Compact	11	3.4	67.0	11800
EHIS24CXUAPH001C500SAXXXX	1	500	Compact	11	3.4	71.0	13400
EHIS24CXUAPH001C630SAXXXX	1	630	Compact	11	3.6	75.0	15500
EHIS24CXUAPH001C800SAXXXX	1	800	Compact	11	3.8	79.0	18000
EHIS24CXUAPH001C01KSAXXXX	1	1000	Compact	11	4	85.0	21100
EHIS24CXUAPH001C1K2SAXXXX	1	1200	Milliken	11	4	88.0	23400
EHIS24CXUAPH001C1K4SAXXXX	1	1400	Milliken	11	4	92.0	26300
EHIS24CXUAPH001C1K6SAXXXX	1	1600	Milliken	11	4	95.0	29000
EHIS24CXUAPH001C1K8SAXXXX	1	1800	Milliken	11	4	98.0	31400
EHIS24CXUAPH001C02KSAXXXX	1	2000	Milliken	11	4	101.0	33700
EHIS24CXUAPH001C2K5SAXXXX	1	2500	Milliken	11	4	107.0	39800

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
240	0.0754	0.0973	0.137	0.168	0.19	48	0.166	0.0809	0.185
300	0.0601	0.0781	0.132	0.153	0.21	45	0.152	0.0763	0.170
400	0.0470	0.0619	0.127	0.141	0.22	43	0.141	0.0716	0.158
500	0.0366	0.0493	0.121	0.131	0.25	39	0.132	0.0668	0.148
630	0.0283	0.0395	0.117	0.123	0.27	37	0.126	0.0625	0.141
800	0.0221	0.0325	0.113	0.118	0.29	35	0.122	0.0589	0.135
1000	0.0176	0.0277	0.109	0.112	0.32	33	0.121	0.0555	0.133
1200	0.0151	0.0206	0.105	0.107	0.35	31	0.117	0.0521	0.128
1400	0.0129	0.0180	0.103	0.105	0.38	29	0.118	0.0505	0.128
1600	0.0113	0.0162	0.101	0.102	0.40	28	0.119	0.0489	0.129
1800	0.0101	0.0148	0.0998	0.101	0.41	28	0.120	0.0477	0.129
2000	0.0090	0.0136	0.0982	0.0991	0.43	27	0.122	0.0464	0.131





#### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Copper Conductor, Copper Screen and 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 <sup>2</sup>	Amps				KAmps
240	431	455	610	697	34.3
300	483	512	694	797	42.9
400	545	583	799	924	57.2
500	614	662	921	1074	71.5
630	688	750	1054	1243	90.1
800	760	839	1190	1419	114.4
1000	827	925	1322	1600	143.0
1200	950	1058	1558	1873	171.6
1400	1014	1140	1688	2045	200.2
1600	1068	1211	1802	2203	228.8
1800	1112	1272	1898	2339	257.4
2000	1158	1336	2002	2488	286.0
2500	1246	1462	2207	2791	357.5

Current ratings based on IEC 60287

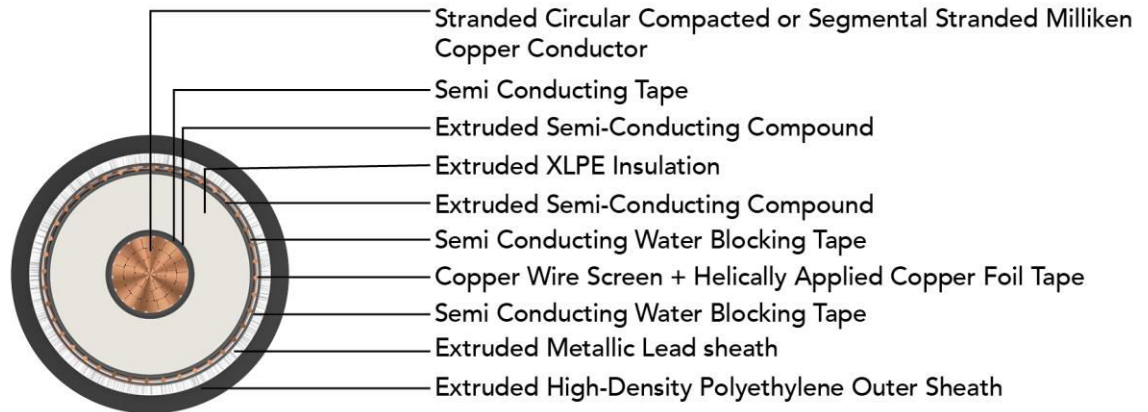
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV CS+PB IEC 60840 64/110 kV (123 kV)

## HV Cable with Copper Conductor, Copper Screen and Lead Sheath



### Outstanding Features

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

### Application

POLYCAB 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.

### 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

### 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- 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

### Impulse Test Voltage

550kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 60840 64/110 kV (123 kV)

### HV Cable with Copper Conductor, Copper Screen and Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores No.	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.) Kg/Km
EHIS25CXUAPH001C240SAXXXX	1	240	Compact	16	3.4	72.0	11700
EHIS25CXUAPH001C300SAXXXX	1	300	Compact	16	3.6	74.0	12700
EHIS25CXUAPH001C400SAXXXX	1	400	Compact	16	3.6	77.0	13900
EHIS25CXUAPH001C500SAXXXX	1	500	Compact	16	3.8	81.0	15800
EHIS25CXUAPH001C630SAXXXX	1	630	Compact	16	4.0	85.0	17900
EHIS25CXUAPH001C800SAXXXX	1	800	Compact	16	4.0	89.0	20400
EHIS25CXUAPH001C01KSAXXXX	1	1000	Compact	16	4.0	95.0	23600
EHIS25CXUAPH001C1K2SAXXXX	1	1200	Milliken	16	4.0	98.0	25900
EHIS25CXUAPH001C1K4SAXXXX	1	1400	Milliken	16	4.0	102.0	28600
EHIS25CXUAPH001C1K6SAXXXX	1	1600	Milliken	16	4.0	105.0	31200
EHIS25CXUAPH001C1K8SAXXXX	1	1800	Milliken	16	4.0	108.0	33700
EHIS25CXUAPH001C02KSAXXXX	1	2000	Milliken	16	4.0	111.0	36300
EHIS25CXUAPH001C2K5SAXXXX	1	2500	Milliken	16	4.0	117.0	42400

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
240	0.0754	0.0972	0.147	0.176	0.15	56	0.171	0.0927	0.195
300	0.0601	0.0780	0.142	0.162	0.16	53	0.156	0.0878	0.179
400	0.0470	0.0618	0.136	0.149	0.17	51	0.145	0.0825	0.167
500	0.0366	0.0491	0.131	0.140	0.19	47	0.138	0.0771	0.158
630	0.0283	0.0392	0.126	0.132	0.20	45	0.131	0.0722	0.150
800	0.0221	0.0321	0.121	0.125	0.22	42	0.128	0.0681	0.145
1000	0.0176	0.0272	0.117	0.120	0.24	39	0.128	0.0642	0.143
1200	0.0151	0.0205	0.113	0.115	0.26	37	0.125	0.0604	0.139
1400	0.0129	0.0179	0.110	0.111	0.28	35	0.126	0.0583	0.139
1600	0.0113	0.0160	0.108	0.109	0.29	34	0.128	0.0565	0.140
1800	0.0101	0.0147	0.106	0.107	0.30	34	0.129	0.0550	0.140
2000	0.0090	0.0135	0.104	0.105	0.32	32	0.130	0.0534	0.141
2500	0.0072	0.0116	0.101	0.102	0.35	30	0.135	0.0504	0.144





#### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 60840 64/110 kV (123 kV)

### HV Cable with Copper Conductor, Copper Screen and 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 <sup>2</sup>	Amps				KAmps
240	431	456	605	678	34.3
300	484	513	689	774	42.9
400	547	584	793	897	57.2
500	617	663	914	1042	71.5
630	693	753	1048	1206	90.1
800	767	843	1184	1378	114.4
1000	837	930	1318	1552	143.0
1200	958	1064	1546	1815	171.6
1400	1023	1145	1678	1985	200.2
1600	1080	1218	1795	2140	228.8
1800	1127	1280	1894	2275	257.4
2000	1173	1345	1996	2418	286.0
2500	1264	1473	2201	2710	357.5

Current ratings based on IEC 60287

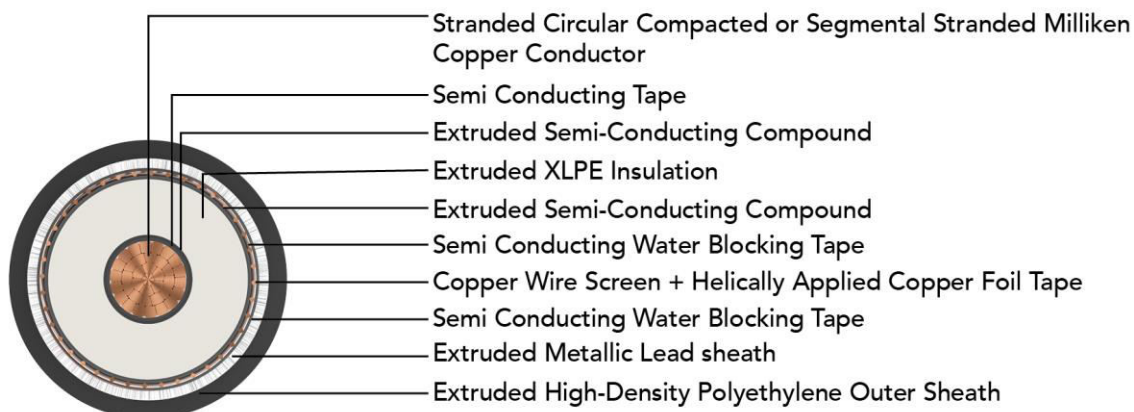
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACREDITATION



## POLYCAB HV CS+PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper Conductor, Copper Screen and Lead Sheath



#### Outstanding Features

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

#### Application

POLYCAB HV 76/132 KV (145 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.

#### Voltage Rating

Nominal Voltage: 76/132 kV (145 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

#### 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- 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

#### Impulse Test Voltage

650kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper Conductor, Copper Screen and Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS26CXUAPH001C300SAXXXX	1	300	Compact	18	3.8	79.0	14300
EHIS26CXUAPH001C400SAXXXX	1	400	Compact	18	3.8	81.0	15500
EHIS26CXUAPH001C500SAXXXX	1	500	Compact	18	4	85.0	17600
EHIS26CXUAPH001C630SAXXXX	1	630	Compact	18	4	89.0	19700
EHIS26CXUAPH001C800SAXXXX	1	800	Compact	18	4	93.0	22000
EHIS26CXUAPH001C01KSAXXXX	1	1000	Compact	18	4	98.0	25200
EHIS26CXUAPH001C1K2SAXXXX	1	1200	Milliken	18	4	101.0	27600
EHIS26CXUAPH001C1K4SAXXXX	1	1400	Milliken	18	4	106.0	30600
EHIS26CXUAPH001C1K6SAXXXX	1	1600	Milliken	18	4	109.0	33000
EHIS26CXUAPH001C1K8SAXXXX	1	1800	Milliken	18	4	112.0	35900
EHIS26CXUAPH001C02KSAXXXX	1	2000	Milliken	18	4	115.0	38600
EHIS26CXUAPH001C2K5SAXXXX	1	2500	Milliken	18	4	120.0	44800

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
300	0.0601	0.0780	0.146	0.166	0.15	56	0.159	0.0922	0.184
400	0.0470	0.0617	0.140	0.153	0.16	53	0.148	0.0867	0.172
500	0.0366	0.0490	0.134	0.143	0.17	50	0.139	0.0810	0.161
630	0.0283	0.0391	0.129	0.135	0.19	47	0.134	0.0760	0.154
800	0.0221	0.0320	0.124	0.128	0.20	44	0.131	0.0717	0.149
1000	0.0176	0.0271	0.120	0.123	0.22	42	0.130	0.0675	0.146
1200	0.0151	0.0204	0.115	0.117	0.24	39	0.128	0.0637	0.143
1400	0.0129	0.0178	0.113	0.114	0.25	38	0.130	0.0615	0.144
1600	0.0113	0.0160	0.111	0.112	0.27	36	0.131	0.0595	0.144
1800	0.0101	0.0146	0.109	0.110	0.28	35	0.131	0.0579	0.143
2000	0.0090	0.0134	0.107	0.108	0.29	34	0.132	0.0562	0.143
2500	0.0072	0.0115	0.103	0.104	0.31	33	0.141	0.0531	0.151

#### OUR ACCREDITATION


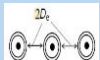

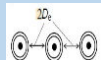




## POLYCAB HV CS+PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper Conductor, Copper Screen and 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 <sup>2</sup>	Amps				KAmps
300	484	514	686	766	42.9
400	548	584	791	888	57.2
500	618	664	911	1030	71.5
630	695	754	1044	1191	90.1
800	770	844	1181	1362	114.4
1000	839	931	1314	1534	143.0
1200	961	1066	1542	1795	171.6
1400	1028	1148	1675	1965	200.2
1600	1084	1220	1790	2115	228.8
1800	1131	1283	1888	2248	257.4
2000	1178	1349	1991	2389	286.0
2500	1273	1478	2201	2681	357.5

Current ratings based on IEC 60287

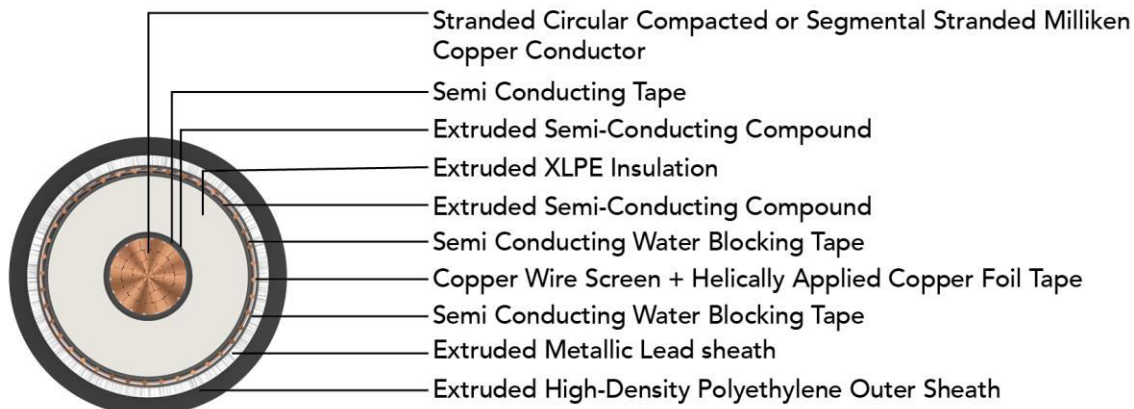
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACREDITATION



## POLYCAB HV CS+PB IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper Conductor, Copper Screen and Lead Sheath



#### Outstanding Features

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

#### Application

POLYCAB HV 127/220 KV (245 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.

#### Voltage Rating

Nominal Voltage: 127/220 kV (245 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 62067

IS 7098-3

ICEA S-108-720

#### 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Tape
- 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

#### Impulse Test Voltage

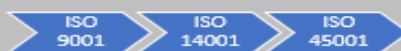
1050kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper Conductor, Copper Screen and Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS27CXUAPH001C400SAXXXX	1	400	Compact	27	4	100.0	21000
EHIS27CXUAPH001C500SAXXXX	1	500	Compact	27	4	104.0	23500
EHIS27CXUAPH001C630SAXXXX	1	630	Compact	27	4	107.0	26000
EHIS27CXUAPH001C800SAXXXX	1	800	Compact	27	4	111.0	28500
EHIS27CXUAPH001C01KSAXXXX	1	1000	Compact	27	4	115.0	31500
EHIS27CXUAPH001C1K2SAXXXX	1	1200	Milliken	27	4	119.0	35000
EHIS27CXUAPH001C1K4SAXXXX	1	1400	Milliken	27	4	123.0	38000
EHIS27CXUAPH001C1K6SAXXXX	1	1600	Milliken	27	4	126.0	40500
EHIS27CXUAPH001C1K8SAXXXX	1	1800	Milliken	27	4	129.0	43000
EHIS27CXUAPH001C02KSAXXXX	1	2000	Milliken	27	4	131.0	45500
EHIS27CXUAPH001C2K5SAXXXX	1	2500	Milliken	27	4	138.0	52000

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.0470	0.0615	0.154	0.166	0.12	64	0.130	0.102	0.165
500	0.0366	0.0488	0.148	0.156	0.13	60	0.122	0.0959	0.155
630	0.0283	0.0388	0.142	0.147	0.14	57	0.115	0.0902	0.146
800	0.0221	0.0316	0.136	0.140	0.15	54	0.111	0.0852	0.140
1000	0.0176	0.0266	0.131	0.134	0.17	50	0.109	0.0804	0.135
1200	0.0151	0.0203	0.126	0.128	0.18	47	0.107	0.0760	0.131
1400	0.0129	0.0177	0.123	0.124	0.19	45	0.106	0.0731	0.129
1600	0.0113	0.0158	0.121	0.122	0.20	44	0.108	0.0707	0.129
1800	0.0101	0.0145	0.119	0.120	0.21	42	0.108	0.0691	0.128
2000	0.0090	0.0132	0.117	0.118	0.21	42	0.111	0.0672	0.130
2500	0.0072	0.0113	0.113	0.114	0.23	40	0.115	0.0635	0.131





#### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper Conductor, Copper Screen and Lead Sheath

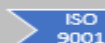
#### CURRENT RATING:

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 <sup>2</sup>	Amps				KAmps
400	539	578	772	851	57.2
500	608	657	889	986	71.5
630	682	743	1018	1139	90.1
800	755	831	1151	1299	114.4
1000	823	917	1282	1463	143.0
1200	934	1045	1493	1705	171.6
1400	995	1122	1618	1863	200.2
1600	1049	1193	1729	2006	228.8
1800	1093	1253	1823	2127	257.4
2000	1140	1315	1926	2262	286.0
2500	1228	1437	2124	2533	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

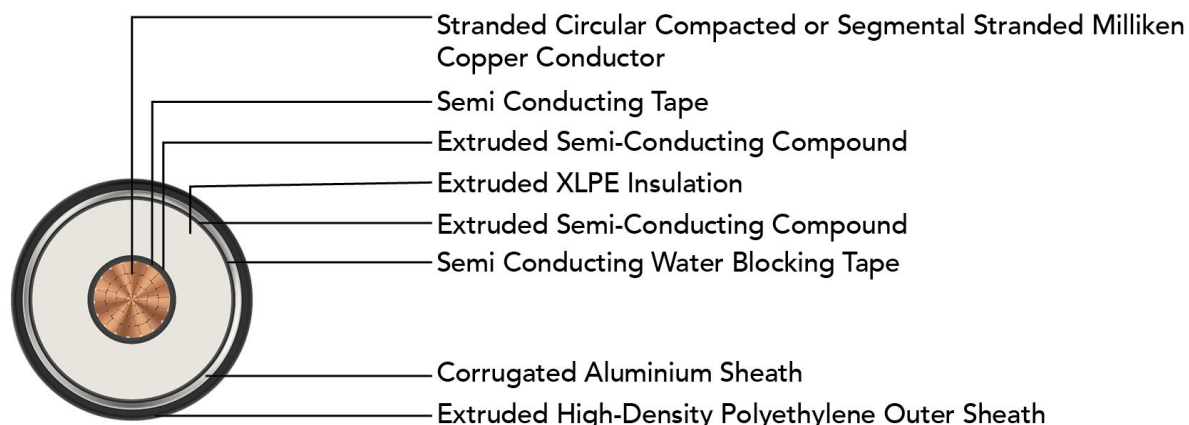
#### OUR ACCREDITATION






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

## HV Cable with Copper 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 Copper 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 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

### 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



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

### HV Cable with Copper Conductor, Aluminium Corrugated Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS24CXATPH001C240SAXXXX	1	240	Compact	11	3.2	64.0	6400
EHIS24CXATPH001C300SAXXXX	1	300	Compact	11	3.2	66.0	7200
EHIS24CXATPH001C400SAXXXX	1	400	Compact	11	3.4	69.0	8100
EHIS24CXATPH001C500SAXXXX	1	500	Compact	11	3.6	73.0	9600
EHIS24CXATPH001C630SAXXXX	1	630	Compact	11	3.6	76.0	11000
EHIS24CXATPH001C800SAXXXX	1	800	Compact	11	3.8	80.0	12300
EHIS24CXATPH001C01KSAXXXX	1	1000	Compact	11	4	86.0	14500
EHIS24CXATPH001C1K2SAXXXX	1	1200	Milliken	11	4	93.0	17000
EHIS24CXATPH001C1K4SAXXXX	1	1400	Milliken	11	4	97.0	19100
EHIS24CXATPH001C1K6SAXXXX	1	1600	Milliken	11	4	100.0	21100
EHIS24CXATPH001C1K8SAXXXX	1	1800	Milliken	11	4	103.0	23100
EHIS24CXATPH001C02KSAXXXX	1	2000	Milliken	11	4	106.0	25000
EHIS24CXATPH001C2K5SAXXXX	1	2500	Milliken	11	4	112.0	29900

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
240	0.0754	0.0972	0.145	0.175	0.19	49	0.166	0.0883	0.188
300	0.0601	0.0780	0.140	0.160	0.21	46	0.150	0.0836	0.172
400	0.0470	0.0618	0.134	0.148	0.22	44	0.135	0.0782	0.156
500	0.0366	0.0491	0.128	0.137	0.25	40	0.125	0.0726	0.145
630	0.0283	0.0393	0.123	0.129	0.27	38	0.115	0.0679	0.134
800	0.0221	0.0322	0.118	0.122	0.29	36	0.107	0.0638	0.125
1000	0.0176	0.0274	0.114	0.117	0.32	34	0.103	0.0598	0.119
1200	0.0151	0.0205	0.110	0.112	0.35	32	0.0980	0.0560	0.113
1400	0.0129	0.0179	0.107	0.108	0.38	30	0.0949	0.0540	0.109
1600	0.0113	0.0161	0.105	0.106	0.40	29	0.0904	0.0522	0.104
1800	0.0101	0.0147	0.104	0.105	0.41	28	0.0864	0.0511	0.100
2000	0.0090	0.0135	0.102	0.103	0.43	28	0.0829	0.0496	0.0966
2500	0.0072	0.0116	0.0992	0.0999	0.47	26	0.0765	0.0469	0.0897





#### OUR ACCREDITATION



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

### HV Cable with Copper 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 <sup>2</sup>	Amps				KAmps
240	427	452	595	666	34.3
300	478	509	676	760	42.9
400	540	579	778	881	57.2
500	608	657	894	1021	71.5
630	681	743	1022	1181	90.1
800	751	831	1151	1347	114.4
1000	815	915	1276	1515	143.0
1200	930	1045	1494	1769	171.6
1400	988	1121	1612	1930	200.2
1600	1034	1188	1712	2070	228.8
1800	1070	1242	1794	2192	257.4
2000	1106	1299	1880	2319	286.0
2500	1167	1404	2039	2576	357.5

Current ratings based on IEC 60287

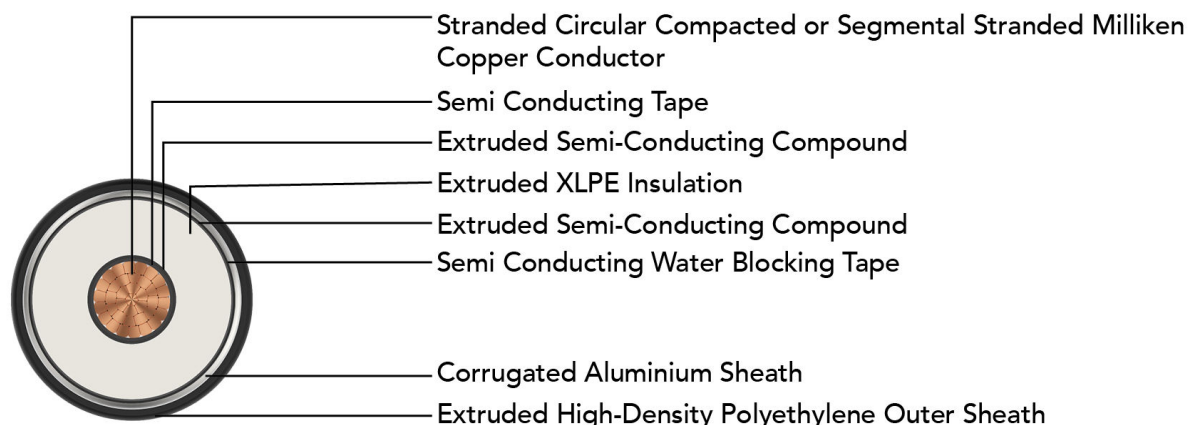
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV AL.COR IEC 60840 64/110 kV (123 kV)

## HV Cable with Copper Conductor, Aluminium Corrugated Sheath



### Outstanding Features

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

### Application

POLYCAB 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.

### Voltage Rating

Nominal Voltage: 64/110 kV (123 kV)

### Operation Temperature

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

### 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

### 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

550kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION





## POLYCAB HV AL.COR IEC 60840 64/110 kV (123 kV)

### HV Cable with Copper Conductor, Aluminium Corrugated Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						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 mm <sup>2</sup>	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
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





#### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 60840 64/110 kV (123 kV)

### HV Cable with Copper 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 <sup>2</sup>	Amps				KAmps
240	427	452	591	653	34.3
300	479	509	671	745	42.9
400	541	579	772	862	57.2
500	609	657	887	999	71.5
630	683	744	1015	1155	90.1
800	754	832	1144	1317	114.4
1000	819	918	1270	1480	143.0
1200	927	1042	1476	1721	171.6
1400	982	1120	1591	1876	200.2
1600	1027	1185	1689	2013	228.8
1800	1063	1237	1772	2133	257.4
2000	1098	1294	1856	2259	286.0
2500	1159	1400	2016	2510	357.5

Current ratings based on IEC 60287

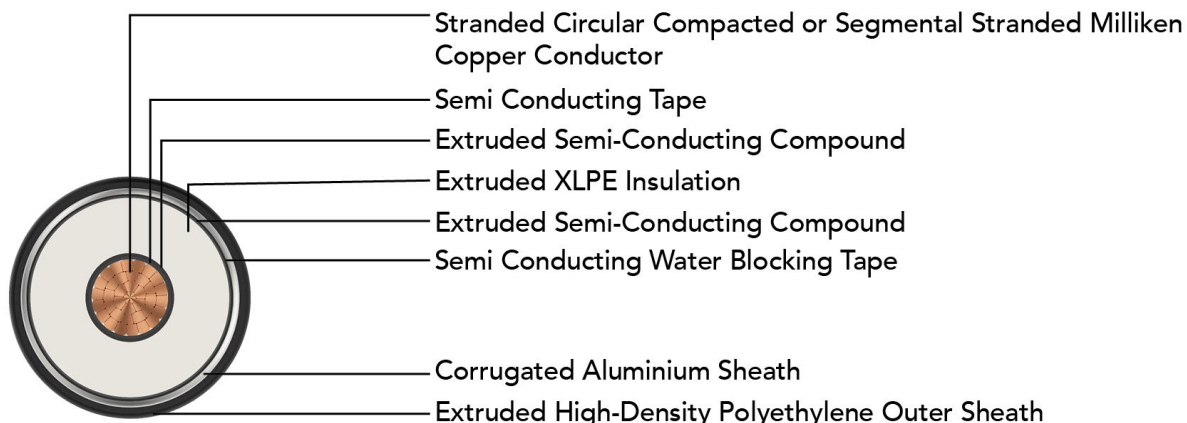
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV AL.COR IEC 60840 76/132 kV (145 kV)

## HV Cable with Copper Conductor, Aluminium Corrugated Sheath



### Outstanding Features

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

### Application

POLYCAB HV 76/132 KV (145 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.

### Voltage Rating

Nominal Voltage: 76/132 kV (145 kV)

### Operation Temperature

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

### 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

### 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

650kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper Conductor, Aluminium Corrugated Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS26CXATPH001C300SAXXXX	1	300	Compact	18	3.8	81.0	9000
EHIS26CXATPH001C400SAXXXX	1	400	Compact	18	4	84.0	10000
EHIS26CXATPH001C500SAXXXX	1	500	Compact	18	4	88.0	11500
EHIS26CXATPH001C630SAXXXX	1	630	Compact	18	4	91.0	13000
EHIS26CXATPH001C800SAXXXX	1	800	Compact	18	4	95.0	14200
EHIS26CXATPH001C01KSAXXXX	1	1000	Compact	18	4	100.0	16500
EHIS26CXATPH001C1K2SAXXXX	1	1200	Milliken	18	4	107.0	19200
EHIS26CXATPH001C1K4SAXXXX	1	1400	Milliken	18	4	111.0	21300
EHIS26CXATPH001C1K6SAXXXX	1	1600	Milliken	18	4	114.0	23400
EHIS26CXATPH001C1K8SAXXXX	1	1800	Milliken	18	4	117.0	25500
EHIS26CXATPH001C02KSAXXXX	1	2000	Milliken	18	4	120.0	27400
EHIS26CXATPH001C2K5SAXXXX	1	2500	Milliken	18	4	126.0	32400

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
300	0.0601	0.0779	0.151	0.170	0.15	57	0.144	0.0969	0.174
400	0.0470	0.0616	0.145	0.158	0.16	54	0.131	0.0910	0.160
500	0.0366	0.0489	0.139	0.147	0.17	51	0.120	0.0850	0.147
630	0.0283	0.0390	0.133	0.139	0.19	47	0.111	0.0797	0.137
800	0.0221	0.0319	0.128	0.132	0.20	45	0.105	0.0751	0.129
1000	0.0176	0.0269	0.124	0.127	0.22	42	0.0963	0.0710	0.120
1200	0.0151	0.0204	0.119	0.121	0.24	40	0.0869	0.0669	0.110
1400	0.0129	0.0178	0.117	0.118	0.25	39	0.0821	0.0644	0.104
1600	0.0113	0.0159	0.114	0.115	0.27	37	0.0785	0.0623	0.100
1800	0.0101	0.0146	0.112	0.113	0.28	36	0.0755	0.0606	0.0968
2000	0.0090	0.0133	0.111	0.112	0.29	35	0.0726	0.0589	0.0935
2500	0.0072	0.0114	0.107	0.108	0.31	33	0.0675	0.0556	0.0875





#### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper 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 <sup>2</sup>	Amps				KAmps
300	479	510	669	739	42.9
400	541	580	769	855	57.2
500	610	658	885	990	71.5
630	683	745	1012	1144	90.1
800	755	834	1141	1304	114.4
1000	819	917	1265	1464	143.0
1200	925	1042	1468	1704	171.6
1400	980	1117	1582	1857	200.2
1600	1024	1181	1680	1992	228.8
1800	1060	1237	1763	2111	257.4
2000	1095	1293	1847	2236	286.0
2500	1156	1396	2006	2484	357.5

Current ratings based on IEC 60287

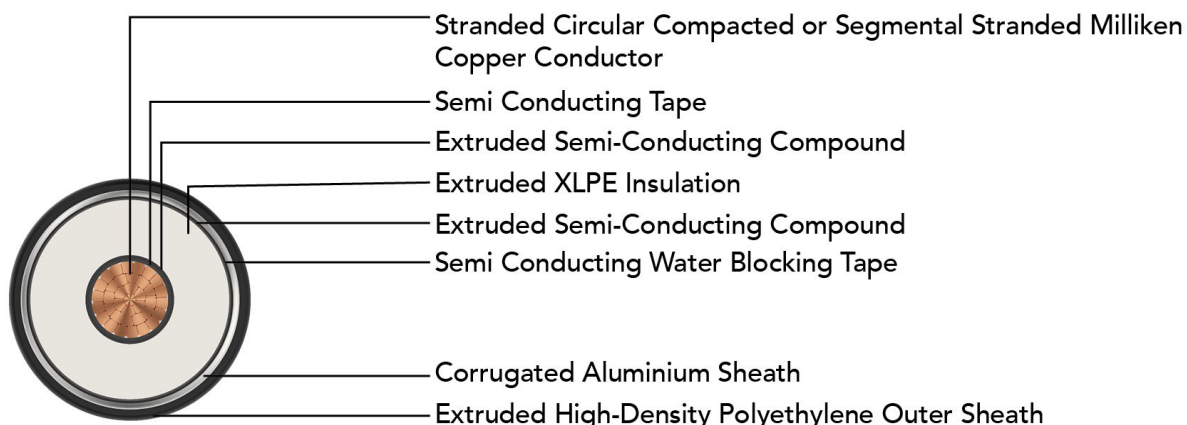
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACREDITATION



# POLYCAB HV AL.COR IEC 62067 127/220 kV (245 kV)

## HV Cable with Copper Conductor, Aluminium Corrugated Sheath



### Outstanding Features

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

### Application

POLYCAB HV 127/220 KV (245 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.

### Voltage Rating

Nominal Voltage: 127/220 kV (245 kV)

### Operation Temperature

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

### 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

### Bending Radius: 20D

: D is overall diameter of cable

### Standard and References:

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

### Impulse Test Voltage

1050kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper Conductor, Aluminium Corrugated Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.) Kg/Km
EHIS27CXATPH001C400SAXXXX	1	400	Compact	27	4	100.0	12400
EHIS27CXATPH001C500SAXXXX	1	500	Compact	27	4	104.0	14000
EHIS27CXATPH001C630SAXXXX	1	630	Compact	27	4	107.0	15600
EHIS27CXATPH001C800SAXXXX	1	800	Compact	27	4	111.0	16800
EHIS27CXATPH001C01KSAXXXX	1	1000	Compact	27	4	116.0	19100
EHIS27CXATPH001C1K2SAXXXX	1	1200	Milliken	27	4	123.0	22000
EHIS27CXATPH001C1K4SAXXXX	1	1400	Milliken	27	4	127.0	24200
EHIS27CXATPH001C1K6SAXXXX	1	1600	Milliken	27	4	130.0	26400
EHIS27CXATPH001C1K8SAXXXX	1	1800	Milliken	27	4	133.0	28500
EHIS27CXATPH001C02KSAXXXX	1	2000	Milliken	27	4	136.0	30600
EHIS27CXATPH001C2K5SAXXXX	1	2500	Milliken	27	4	142.0	35700

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.0470	0.0615	0.157	0.169	0.12	65	0.113	0.104	0.154
500	0.0366	0.0487	0.150	0.158	0.13	61	0.102	0.0977	0.141
630	0.0283	0.0388	0.144	0.149	0.14	57	0.0943	0.0919	0.132
800	0.0221	0.0316	0.139	0.143	0.15	54	0.0885	0.0868	0.124
1000	0.0176	0.0266	0.133	0.136	0.17	50	0.0841	0.0817	0.117
1200	0.0151	0.0203	0.129	0.131	0.18	48	0.0757	0.0772	0.108
1400	0.0129	0.0177	0.125	0.126	0.19	46	0.0719	0.0743	0.103
1600	0.0113	0.0158	0.123	0.124	0.20	44	0.0688	0.0719	0.0995
1800	0.0101	0.0144	0.121	0.122	0.21	43	0.0660	0.0703	0.0964
2000	0.0090	0.0132	0.119	0.120	0.21	42	0.0637	0.0683	0.0934
2500	0.0072	0.0112	0.115	0.116	0.23	40	0.0595	0.0646	0.0878





#### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper 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 <sup>2</sup>	Amps				KAmps
400	532	573	753	829	57.2
500	598	650	865	958	71.5
630	669	734	989	1104	90.1
800	739	820	1115	1257	114.4
1000	801	902	1238	1411	143.0
1200	899	1021	1430	1638	171.6
1400	951	1095	1542	1785	200.2
1600	993	1155	1638	1915	228.8
1800	1026	1208	1718	2027	257.4
2000	1059	1263	1801	2147	286.0
2500	1117	1363	1959	2385	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

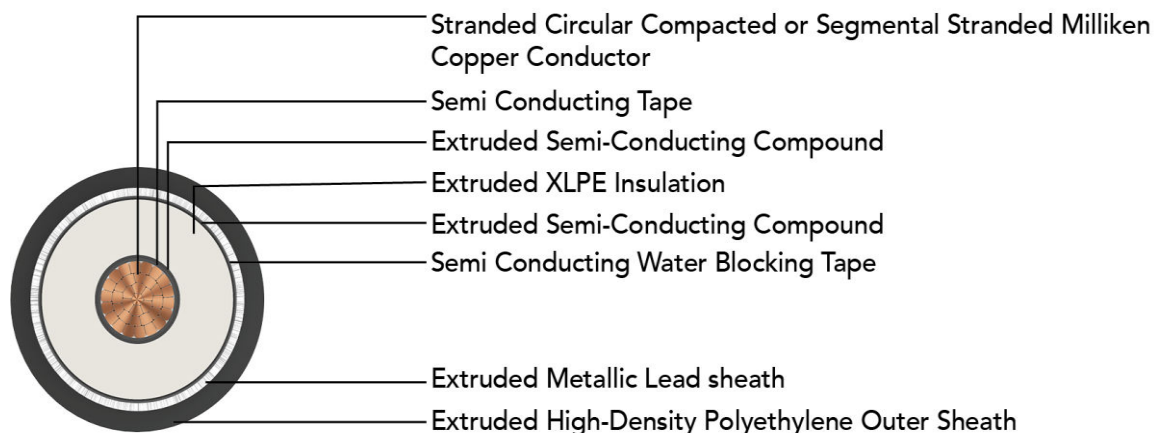
#### OUR ACCREDITATION





# POLYCAB HV PB IEC 60840 38/66 kV (72.5 kV)

## HV Cable with Copper Conductor, Lead 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 copper 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 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
- Inner Sheath: Extruded Metallic Lead alloy
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), 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



## POLYCAB HV PB IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Copper Conductor, Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS24CXUAPH001C240SAXXXX	1	240	Compact	11	3	58.0	7800
EHIS24CXUAPH001C300SAXXXX	1	300	Compact	11	3	60.0	8600
EHIS24CXUAPH001C400SAXXXX	1	400	Compact	11	3.2	63.0	9900
EHIS24CXUAPH001C500SAXXXX	1	500	Compact	11	3.4	67.0	11600
EHIS24CXUAPH001C630SAXXXX	1	630	Compact	11	3.4	70.0	13300
EHIS24CXUAPH001C800SAXXXX	1	800	Compact	11	3.6	75.0	15600
EHIS24CXUAPH001C01KSAXXXX	1	1000	Compact	11	3.8	81.0	19100
EHIS24CXUAPH001C1K2SAXXXX	1	1200	Milliken	11	4	88.0	22300
EHIS24CXUAPH001C1K4SAXXXX	1	1400	Milliken	11	4	93.0	25100
EHIS24CXUAPH001C1K6SAXXXX	1	1600	Milliken	11	4	96.0	27400
EHIS24CXUAPH001C1K8SAXXXX	1	1800	Milliken	11	4	99.0	30100
EHIS24CXUAPH001C02KSAXXXX	1	2000	Milliken	11	4	102.0	32400
EHIS24CXUAPH001C2K5SAXXXX	1	2500	Milliken	11	4	108.0	38300

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
240	0.0754	0.0973	0.137	0.168	0.19	48	0.166	0.0809	0.185
300	0.0601	0.0781	0.132	0.153	0.21	45	0.152	0.0763	0.170
400	0.0470	0.0619	0.127	0.141	0.22	43	0.141	0.0716	0.158
500	0.0366	0.0493	0.121	0.131	0.25	39	0.132	0.0668	0.148
630	0.0283	0.0395	0.117	0.123	0.27	37	0.126	0.0625	0.141
800	0.0221	0.0325	0.113	0.118	0.29	35	0.122	0.0589	0.135
1000	0.0176	0.0277	0.109	0.112	0.32	33	0.121	0.0555	0.133
1200	0.0151	0.0206	0.105	0.107	0.35	31	0.117	0.0521	0.128
1400	0.0129	0.0180	0.103	0.105	0.38	29	0.118	0.0505	0.128
1600	0.0113	0.0162	0.101	0.102	0.40	28	0.119	0.0489	0.129
1800	0.0101	0.0148	0.0998	0.101	0.41	28	0.120	0.0477	0.129
2000	0.0090	0.0136	0.0982	0.0991	0.43	27	0.122	0.0464	0.131
2500	0.0072	0.0118	0.0954	0.0961	0.47	25	0.126	0.0440	0.133





#### OUR ACCREDITATION



## POLYCAB HV PB IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Copper 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 <sup>2</sup>	Amps				KAmps
240	431	455	610	697	34.3
300	483	512	694	797	42.9
400	545	583	799	924	57.2
500	614	662	921	1074	71.5
630	688	750	1054	1243	90.1
800	760	839	1190	1419	114.4
1000	827	925	1322	1600	143.0
1200	950	1058	1558	1873	171.6
1400	1014	1140	1688	2045	200.2
1600	1068	1211	1802	2203	228.8
1800	1112	1272	1898	2339	257.4
2000	1158	1336	2002	2488	286.0
2500	1246	1462	2207	2791	357.5

Current ratings based on IEC 60287

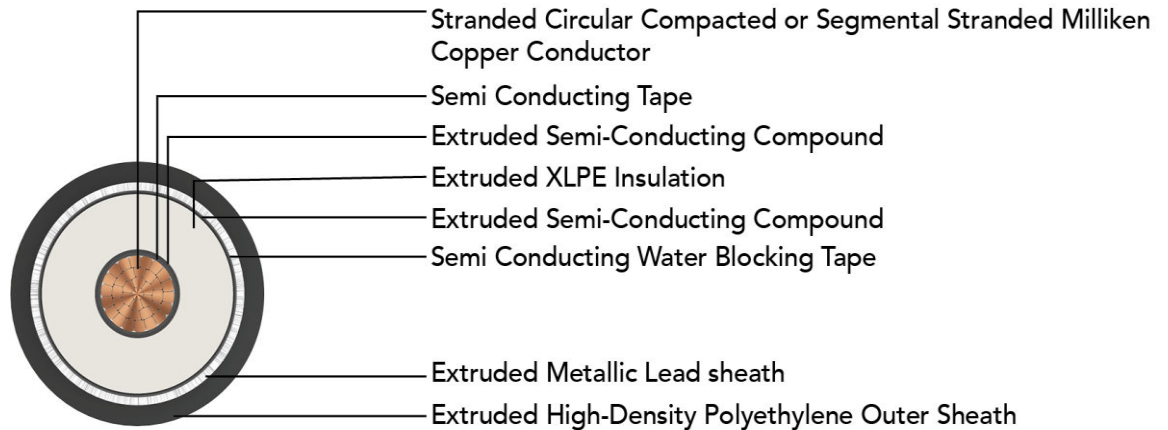
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV PB IEC 60840 64/110 kV (123 kV)

## HV Cable with Copper Conductor, Lead Sheath



### Outstanding Features

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

### Application

POLYCAB 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.

### Voltage Rating

Nominal Voltage: 64/110 kV (123 kV)

### Operation Temperature

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

### 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
- Inner Sheath: Extruded Metallic Lead alloy
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), 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

550kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV PB IEC 60840 64/110 kV (123 kV)

### HV Cable with Copper Conductor, Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS25CXUAPH001C240SAXXXX	1	240	Compact	16	3.4	69.0	9900
EHIS25CXUAPH001C300SAXXXX	1	300	Compact	16	3.4	71.0	10800
EHIS25CXUAPH001C400SAXXXX	1	400	Compact	16	3.6	74.0	12200
EHIS25CXUAPH001C500SAXXXX	1	500	Compact	16	3.8	79.0	14000
EHIS25CXUAPH001C630SAXXXX	1	630	Compact	16	3.8	82.0	15700
EHIS25CXUAPH001C800SAXXXX	1	800	Compact	16	4	86.0	18200
EHIS25CXUAPH001C01KSAXXXX	1	1000	Compact	16	4	92.0	21900
EHIS25CXUAPH001C1K2SAXXXX	1	1200	Milliken	16	4	99.0	25200
EHIS25CXUAPH001C1K4SAXXXX	1	1400	Milliken	16	4	103.0	27800
EHIS25CXUAPH001C1K6SAXXXX	1	1600	Milliken	16	4	106.0	30200
EHIS25CXUAPH001C1K8SAXXXX	1	1800	Milliken	16	4	110.0	33000
EHIS25CXUAPH001C02KSAXXXX	1	2000	Milliken	16	4	112.0	35300
EHIS25CXUAPH001C2K5SAXXXX	1	2500	Milliken	16	4	118.0	41800

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
240	0.0754	0.0972	0.147	0.176	0.15	56	0.171	0.0927	0.195
300	0.0601	0.0780	0.142	0.162	0.16	53	0.156	0.0878	0.179
400	0.0470	0.0618	0.136	0.149	0.17	51	0.145	0.0825	0.167
500	0.0366	0.0491	0.131	0.140	0.19	47	0.138	0.0771	0.158
630	0.0283	0.0392	0.126	0.132	0.20	45	0.131	0.0722	0.150
800	0.0221	0.0321	0.121	0.125	0.22	42	0.128	0.0681	0.145
1000	0.0176	0.0272	0.117	0.120	0.24	39	0.128	0.0642	0.143
1200	0.0151	0.0205	0.113	0.115	0.26	37	0.125	0.0604	0.139
1400	0.0129	0.0179	0.110	0.111	0.28	35	0.126	0.0583	0.139
1600	0.0113	0.0160	0.108	0.109	0.29	34	0.128	0.0565	0.140
1800	0.0101	0.0147	0.106	0.107	0.30	34	0.129	0.0550	0.140
2000	0.0090	0.0135	0.104	0.105	0.32	32	0.130	0.0534	0.141
2500	0.0072	0.0116	0.101	0.102	0.35	30	0.135	0.0504	0.144





#### OUR ACCREDITATION



## POLYCAB HV PB IEC 60840 64/110 kV (123 kV)

### HV Cable with Copper 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 <sup>2</sup>	Amps				KAmps
240	431	456	605	678	34.3
300	484	513	689	774	42.9
400	547	584	793	897	57.2
500	617	663	914	1042	71.5
630	693	753	1048	1206	90.1
800	767	843	1184	1378	114.4
1000	837	930	1318	1552	143.0
1200	958	1064	1546	1815	171.6
1400	1023	1145	1678	1985	200.2
1600	1080	1218	1795	2140	228.8
1800	1127	1280	1894	2275	257.4
2000	1173	1345	1996	2418	286.0
2500	1264	1473	2201	2710	357.5

Current ratings based on IEC 60287

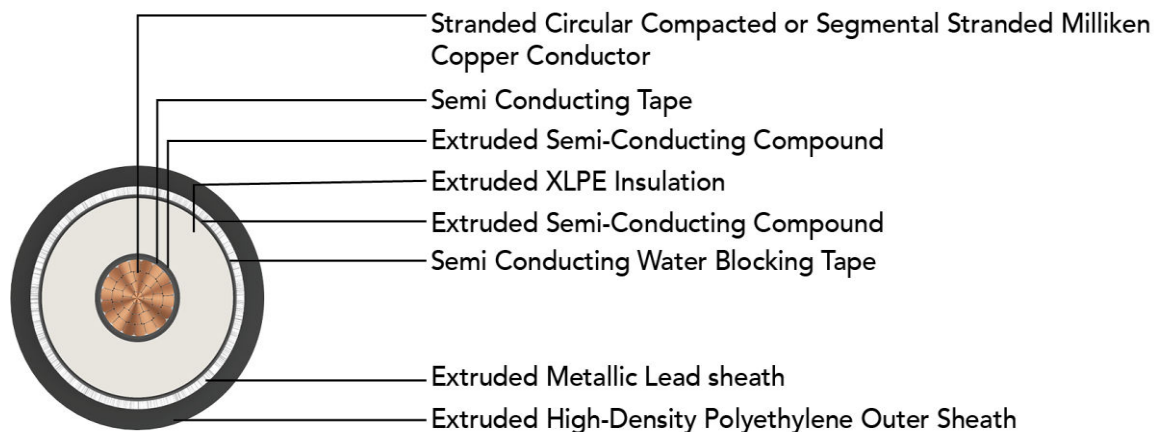
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB HV PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper Conductor, Lead Sheath



#### Outstanding Features

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

#### Application

POLYCAB HV 76/132 KV (145 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.

#### Voltage Rating

Nominal Voltage: 76/132 kV (145 kV)

#### Operation Temperature

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

#### 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
- Inner Sheath: Extruded Metallic Lead alloy
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), 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

650kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper Conductor, Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS26CXUAPH001C300SAXXXX	1	300	Compact	18	3.6	76.0	11800
EHIS26CXUAPH001C400SAXXXX	1	400	Compact	18	3.8	79.0	13200
EHIS26CXUAPH001C500SAXXXX	1	500	Compact	18	3.8	83.0	14800
EHIS26CXUAPH001C630SAXXXX	1	630	Compact	18	4	86.0	16900
EHIS26CXUAPH001C800SAXXXX	1	800	Compact	18	4	90.0	19300
EHIS26CXUAPH001C01KSAXXXX	1	1000	Compact	18	4	96.0	23200
EHIS26CXUAPH001C1K2SAXXXX	1	1200	Milliken	18	4	103.0	26200
EHIS26CXUAPH001C1K4SAXXXX	1	1400	Milliken	18	4	107.0	28800
EHIS26CXUAPH001C1K6SAXXXX	1	1600	Milliken	18	4	111.0	31600
EHIS26CXUAPH001C1K8SAXXXX	1	1800	Milliken	18	4	114.0	34400
EHIS26CXUAPH001C02KSAXXXX	1	2000	Milliken	18	4	116.0	36800
EHIS26CXUAPH001C2K5SAXXXX	1	2500	Milliken	18	4	122.0	43000

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
300	0.0601	0.0780	0.146	0.166	0.15	56	0.159	0.0922	0.184
400	0.0470	0.0617	0.140	0.153	0.16	53	0.148	0.0867	0.172
500	0.0366	0.0490	0.134	0.143	0.17	50	0.139	0.0810	0.161
630	0.0283	0.0391	0.129	0.135	0.19	47	0.134	0.0760	0.154
800	0.0221	0.0320	0.124	0.128	0.20	44	0.131	0.0717	0.149
1000	0.0176	0.0271	0.120	0.123	0.22	42	0.130	0.0675	0.146
1200	0.0151	0.0204	0.115	0.117	0.24	39	0.128	0.0637	0.143
1400	0.0129	0.0178	0.113	0.114	0.25	38	0.130	0.0615	0.144
1600	0.0113	0.0160	0.111	0.112	0.27	36	0.131	0.0595	0.144
1800	0.0101	0.0146	0.109	0.110	0.28	35	0.131	0.0579	0.143
2000	0.0090	0.0134	0.107	0.108	0.29	34	0.132	0.0562	0.143
2500	0.0072	0.0115	0.103	0.104	0.31	33	0.141	0.0531	0.151

#### OUR ACCREDITATION









## POLYCAB HV PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Copper 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 <sup>2</sup>	Amps				KAmps
300	484	514	686	766	42.9
400	548	584	791	888	57.2
500	618	664	911	1030	71.5
630	695	754	1044	1191	90.1
800	770	844	1181	1362	114.4
1000	839	931	1314	1534	143.0
1200	961	1066	1542	1795	171.6
1400	1028	1148	1675	1965	200.2
1600	1084	1220	1790	2115	228.8
1800	1131	1283	1888	2248	257.4
2000	1178	1349	1991	2389	286.0
2500	1273	1478	2201	2681	357.5

Current ratings based on IEC 60287

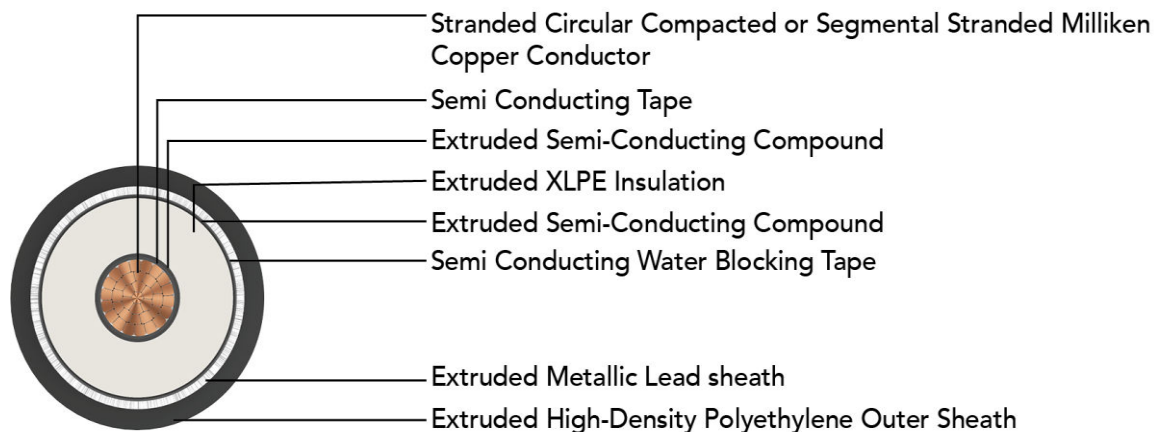
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV PB IEC 62067 127/220 kV (245 kV)

## HV Cable with Copper Conductor, Lead Sheath



### Outstanding Features

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

### Application

POLYCAB HV 127/220 KV (245 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.

### Voltage Rating

Nominal Voltage: 127/220 kV (245 kV)

### Operation Temperature

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

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

### Bending Radius: 20D

: D is overall diameter of cable

### Standard and References:

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

### Impulse Test Voltage

1050kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV PB IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper Conductor, Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.) Kg/Km
EHIS27CXUAPH001C400SAXXXX	1	400	Compact	27	4	96.0	17600
EHIS27CXUAPH001C500SAXXXX	1	500	Compact	27	4	100.0	19300
EHIS27CXUAPH001C630SAXXXX	1	630	Compact	27	4	103.0	21100
EHIS27CXUAPH001C800SAXXXX	1	800	Compact	27	4	107.0	23700
EHIS27CXUAPH001C01KSAXXXX	1	1000	Compact	27	4	113.0	28000
EHIS27CXUAPH001C1K2SAXXXX	1	1200	Milliken	27	4	120.0	31600
EHIS27CXUAPH001C1K4SAXXXX	1	1400	Milliken	27	4	124.0	34800
EHIS27CXUAPH001C1K6SAXXXX	1	1600	Milliken	27	4	127.0	37300
EHIS27CXUAPH001C1K8SAXXXX	1	1800	Milliken	27	4	131.0	40300
EHIS27CXUAPH001C02KSAXXXX	1	2000	Milliken	27	4	133.0	42700
EHIS27CXUAPH001C2K5SAXXXX	1	2500	Milliken	27	4	139.0	48700

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.0470	0.0615	0.154	0.166	0.12	64	0.130	0.102	0.165
500	0.0366	0.0488	0.148	0.156	0.13	60	0.122	0.0959	0.155
630	0.0283	0.0388	0.142	0.147	0.14	57	0.115	0.0902	0.146
800	0.0221	0.0316	0.136	0.140	0.15	54	0.111	0.0852	0.140
1000	0.0176	0.0266	0.131	0.134	0.17	50	0.109	0.0804	0.135
1200	0.0151	0.0203	0.126	0.128	0.18	47	0.107	0.0760	0.131
1400	0.0129	0.0177	0.123	0.124	0.19	45	0.106	0.0731	0.129
1600	0.0113	0.0158	0.121	0.122	0.20	44	0.108	0.0707	0.129
1800	0.0101	0.0145	0.119	0.120	0.21	42	0.108	0.0691	0.128
2000	0.0090	0.0132	0.117	0.118	0.21	42	0.111	0.0672	0.130
2500	0.0072	0.0113	0.113	0.114	0.23	40	0.115	0.0635	0.131





#### OUR ACCREDITATION



## POLYCAB HV PB IEC 62067 127/220 kV (245 kV)

### HV Cable with Copper 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 <sup>2</sup>	Amps				KAmps
400	539	578	772	851	57.2
500	608	657	889	986	71.5
630	682	743	1018	1139	90.1
800	755	831	1151	1299	114.4
1000	823	917	1282	1463	143.0
1200	934	1045	1493	1705	171.6
1400	995	1122	1618	1863	200.2
1600	1049	1193	1729	2006	228.8
1800	1093	1253	1823	2127	257.4
2000	1140	1315	1926	2262	286.0
2500	1228	1437	2124	2533	357.5

Current ratings based on IEC 60287

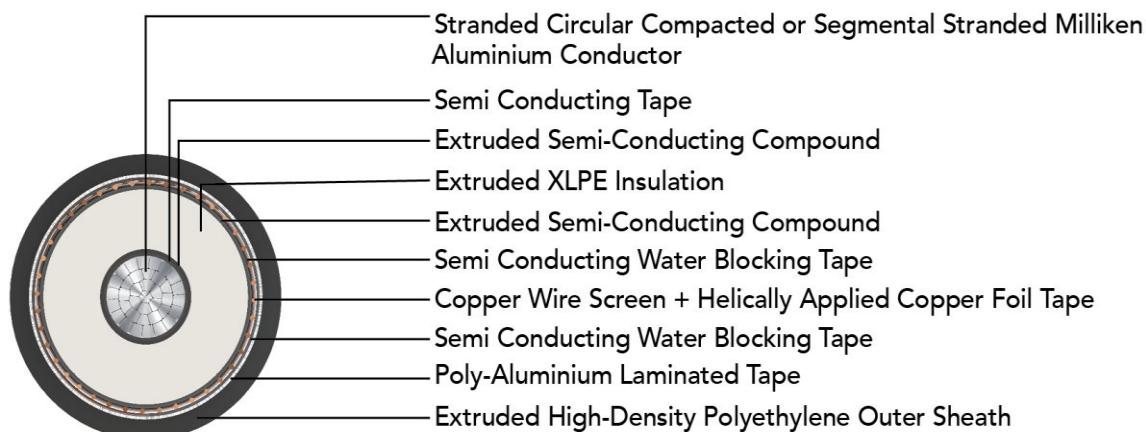
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly Al. laminated



#### 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- Separator: Semi Conducting Water Blocking Tape
- Shield: Poly-Al. laminated Tape
- Outer Sheath: Extruded High-density polyethylene (HDPE), 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



## POLYCAB HV CS+PAL IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly. Al laminated

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS24AXUAPH001C400SAXXXX	1	400	Compact	11	3.2	62.0	4500
EHIS24AXUAPH001C500SAXXXX	1	500	Compact	11	3.2	65.0	5100
EHIS24AXUAPH001C630SAXXXX	1	630	Compact	11	3.4	69.0	5800
EHIS24AXUAPH001C800SAXXXX	1	800	Compact	11	3.6	73.0	6300
EHIS24AXUAPH001C01KSAXXXX	1	1000	Compact	11	3.8	79.0	7300
EHIS24AXUAPH001C1K2SAXXXX	1	1200	Milliken	11	3.8	82.0	8000
EHIS24AXUAPH001C1K4SAXXXX	1	1400	Milliken	11	4	86.0	8900
EHIS24AXUAPH001C1K6SAXXXX	1	1600	Milliken	11	4	89.0	9700
EHIS24AXUAPH001C1K8SAXXXX	1	1800	Milliken	11	4	93.0	10500
EHIS24AXUAPH001C02KSAXXXX	1	2000	Milliken	11	4	95.0	11200
EHIS24AXUAPH001C2K5SAXXXX	1	2500	Milliken	11	4	101.0	12900

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.123	0.159	0.22	42	0.158	0.0687	0.172
500	0.0605	0.0793	0.118	0.142	0.25	39	0.141	0.0639	0.155
630	0.0469	0.0625	0.114	0.130	0.27	37	0.128	0.0602	0.141
800	0.0367	0.0501	0.110	0.121	0.29	35	0.118	0.0564	0.131
1000	0.0291	0.0412	0.106	0.114	0.32	32	0.111	0.0530	0.123
1200	0.0247	0.0322	0.102	0.107	0.35	30	0.104	0.0497	0.115
1400	0.0212	0.0278	0.100	0.104	0.38	29	0.101	0.0481	0.112
1600	0.0186	0.0245	0.0987	0.102	0.40	28	0.0980	0.0465	0.108
1800	0.0165	0.0219	0.0973	0.0997	0.41	27	0.0959	0.0454	0.106
2000	0.0149	0.0200	0.0957	0.0978	0.43	27	0.0944	0.0441	0.104
2500	0.0127	0.0174	0.0928	0.0944	0.47	25	0.0922	0.0417	0.101





#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly. Al laminated

#### 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 <sup>2</sup>	Amps				KAmps
400	436	457	627	716	37.6
500	498	525	732	838	47.0
630	568	600	849	977	59.2
800	642	682	979	1133	75.2
1000	718	768	1117	1301	94.0
1200	823	872	1308	1509	112.8
1400	893	949	1437	1661	131.6
1600	957	1020	1558	1805	150.4
1800	1018	1089	1674	1946	169.2
2000	1073	1153	1784	2082	188.0
2500	1167	1262	1981	2330	235.0

Current ratings based on IEC 60287

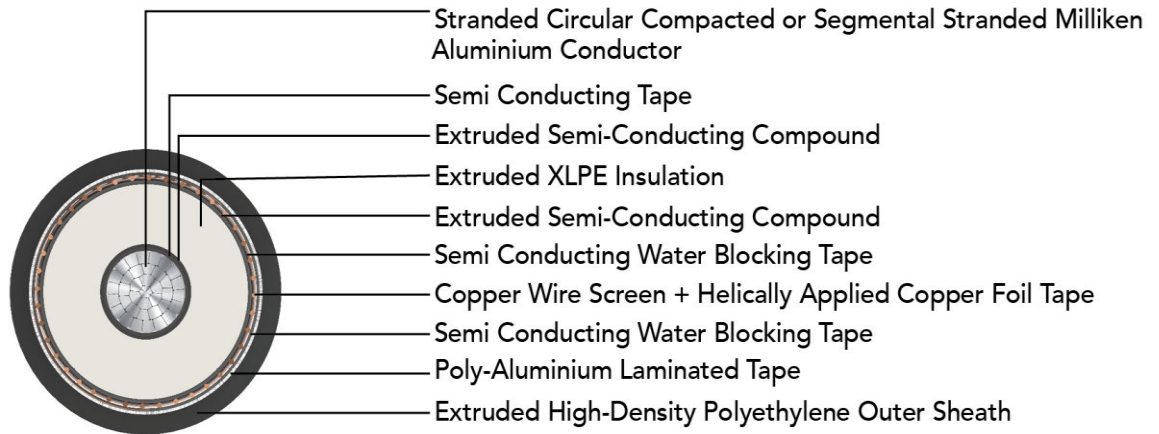
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV CS+PAL IEC 60840 64/110 kV (123 kV)

## HV Cable with Aluminium Conductor, Copper Screen and Poly Al. laminated



### Outstanding Features

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

### Application

POLYCAB 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)

### 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- Separator: Semi Conducting Water Blocking Tape
- Shield: Poly-Al. laminated Tape
- Outer Sheath: Extruded High-density polyethylene (HDPE), 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

550kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION





## POLYCAB HV CS+PAL IEC 60840 64/110 kV (123 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly. Al laminated

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS25AXUAPH001C400SAXXXX	1	400	Compact	16	3.6	73.0	5500
EHIS25AXUAPH001C500SAXXXX	1	500	Compact	16	3.6	76.0	6200
EHIS25AXUAPH001C630SAXXXX	1	630	Compact	16	3.8	80.0	6900
EHIS25AXUAPH001C800SAXXXX	1	800	Compact	16	4	84.0	7700
EHIS25AXUAPH001C01KSAXXXX	1	1000	Compact	16	4	89.0	8700
EHIS25AXUAPH001C1K2SAXXXX	1	1200	Milliken	16	4	94.0	9500
EHIS25AXUAPH001C1K4SAXXXX	1	1400	Milliken	16	4	100.0	10400
EHIS25AXUAPH001C1K6SAXXXX	1	1600	Milliken	16	4	103.0	11200
EHIS25AXUAPH001C1K8SAXXXX	1	1800	Milliken	16	4	106.0	12100
EHIS25AXUAPH001C02KSAXXXX	1	2000	Milliken	16	4	109.0	12800
EHIS25AXUAPH001C2K5SAXXXX	1	2500	Milliken	16	4	116.0	14700

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.133	0.167	0.17	50	0.158	0.0798	0.177
500	0.0605	0.0791	0.128	0.150	0.19	46	0.141	0.0744	0.159
630	0.0469	0.0622	0.123	0.138	0.20	44	0.128	0.0702	0.146
800	0.0367	0.0498	0.118	0.128	0.22	41	0.118	0.0658	0.135
1000	0.0291	0.0408	0.114	0.121	0.24	39	0.111	0.0617	0.127
1200	0.0247	0.0321	0.110	0.115	0.26	37	0.104	0.0582	0.119
1400	0.0212	0.0277	0.108	0.111	0.28	35	0.101	0.0560	0.115
1600	0.0186	0.0244	0.105	0.108	0.29	34	0.098	0.0541	0.112
1800	0.0165	0.0218	0.104	0.106	0.30	33	0.0959	0.0527	0.109
2000	0.0149	0.0199	0.102	0.104	0.32	32	0.0944	0.0512	0.107
2500	0.0127	0.0172	0.0987	0.100	0.35	30	0.0922	0.0483	0.104





#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 64/110 kV (123 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly. Al laminated

#### 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 <sup>2</sup>	Amps				KAmps
400	437	459	623	697	37.6
500	500	526	726	815	47.0
630	570	602	842	949	59.2
800	645	684	970	1099	75.2
1000	722	771	1107	1262	94.0
1200	825	874	1289	1458	112.8
1400	896	952	1417	1607	131.6
1600	961	1024	1536	1748	150.4
1800	1023	1093	1651	1884	169.2
2000	1079	1157	1759	2014	188.0
2500	1174	1265	1953	2252	235.0

Current ratings based on IEC 60287

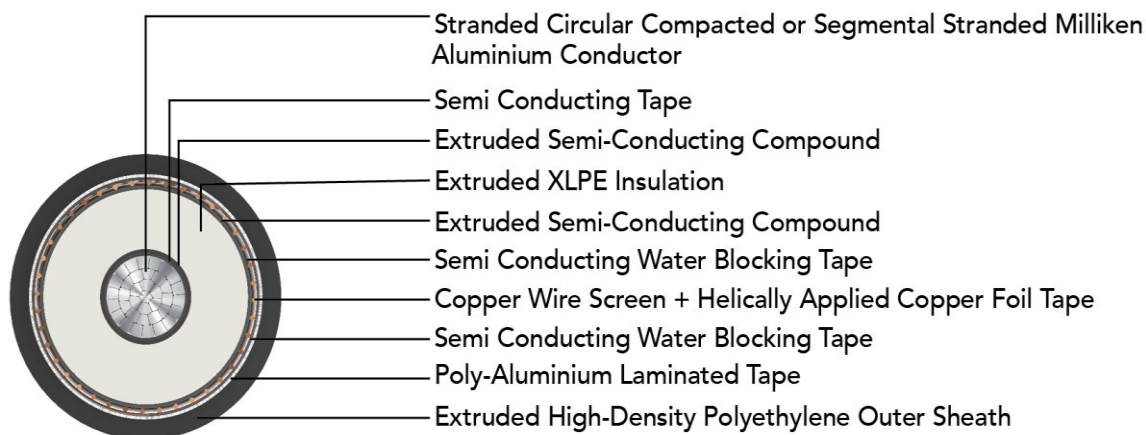
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 76/132 kV (145 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly Al. laminated



#### Outstanding Features

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

#### Application

POLYCAB HV 76/132 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.

#### Voltage Rating

Nominal Voltage: 76/132 kV (145 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- Separator: Semi Conducting Water Blocking Tape
- Shield: Poly-Al. laminated Tape
- Outer Sheath: Extruded High-density polyethylene (HDPE), 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

650kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 76/132 kV (145 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly. Al laminated

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS26AXUAPH001C400SAXXXX	1	400	Compact	18	3.6	77.0	6400
EHIS26AXUAPH001C500SAXXXX	1	500	Compact	18	3.8	80.0	6800
EHIS26AXUAPH001C630SAXXXX	1	630	Compact	18	4	84.0	7500
EHIS26AXUAPH001C800SAXXXX	1	800	Compact	18	4	88.0	8300
EHIS26AXUAPH001C01KSAXXXX	1	1000	Compact	18	4	93.0	9300
EHIS26AXUAPH001C1K2SAXXXX	1	1200	Milliken	18	4	100.0	10100
EHIS26AXUAPH001C1K4SAXXXX	1	1400	Milliken	18	4	104.0	11000
EHIS26AXUAPH001C1K6SAXXXX	1	1600	Milliken	18	4	107.0	11900
EHIS26AXUAPH001C1K8SAXXXX	1	1800	Milliken	18	4	110.0	12700
EHIS26AXUAPH001C02KSAXXXX	1	2000	Milliken	18	4	114.0	13500
EHIS26AXUAPH001C2K5SAXXXX	1	2500	Milliken	18	4	119.0	15400

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.137	0.170	0.16	52	0.158	0.0841	0.179
500	0.0605	0.0791	0.131	0.153	0.17	50	0.141	0.0785	0.161
630	0.0469	0.0622	0.127	0.141	0.19	46	0.128	0.0741	0.148
800	0.0367	0.0498	0.122	0.132	0.20	44	0.118	0.0695	0.137
1000	0.0291	0.0408	0.117	0.124	0.22	41	0.111	0.0653	0.129
1200	0.0247	0.0321	0.113	0.117	0.24	39	0.104	0.0615	0.121
1400	0.0212	0.0277	0.110	0.113	0.25	37	0.101	0.0592	0.117
1600	0.0186	0.0244	0.108	0.111	0.27	36	0.098	0.0572	0.113
1800	0.0165	0.0218	0.106	0.108	0.28	35	0.0959	0.0557	0.111
2000	0.0149	0.0199	0.105	0.107	0.29	34	0.0944	0.0540	0.109
2500	0.0127	0.0172	0.101	0.102	0.31	32	0.0922	0.0510	0.105





#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 60840 76/132 kV (145 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly. Al laminated

#### 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 <sup>2</sup>	Amps				KAmps
400	437	459	621	690	37.6
500	501	527	723	806	47.0
630	571	603	838	938	59.2
800	647	685	966	1086	75.2
1000	724	773	1103	1247	94.0
1200	826	875	1282	1441	112.8
1400	897	953	1409	1588	131.6
1600	962	1025	1527	1726	150.4
1800	1025	1092	1641	1860	169.2
2000	1081	1156	1749	1988	188.0
2500	1177	1268	1941	2222	235.0

Current ratings based on IEC 60287

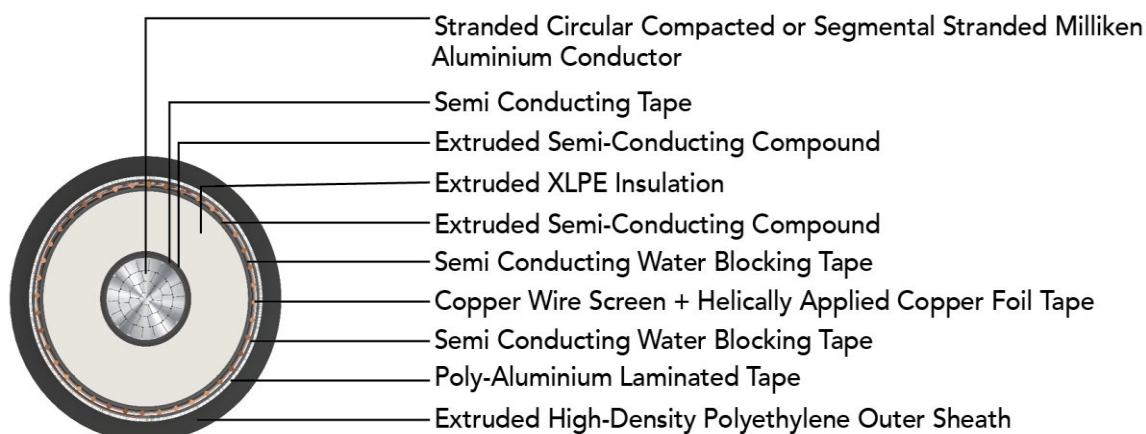
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 62067 127/220 kV (245 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly Al. laminated



#### Outstanding Features

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

#### Application

POLYCAB HV 127/220 kV (245 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: 127/220 kV (245 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
- Metallic Insulation Screen: Copper Wires + Helically applied Copper Foil Tape
- Separator: Semi Conducting Water Blocking Tape
- Shield: Poly-Al. laminated Tape
- 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 62067  
IS 7098-3  
ICEA S-108-720

#### Impulse Test Voltage

1050kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 62067 127/220 kV (245 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly. Al laminated

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) Mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS27AXUAPH001C400SAXXXX	1	400	Compact	27	4	94.0	8900
EHIS27AXUAPH001C500SAXXXX	1	500	Compact	27	4	97.0	9200
EHIS27AXUAPH001C630SAXXXX	1	630	Compact	27	4	101.0	9900
EHIS27AXUAPH001C800SAXXXX	1	800	Compact	27	4	105.0	10800
EHIS27AXUAPH001C01KSAXXXX	1	1000	Compact	27	4	109.0	12000
EHIS27AXUAPH001C1K2SAXXXX	1	1200	Milliken	27	4	115.0	12900
EHIS27AXUAPH001C1K4SAXXXX	1	1400	Milliken	27	4	120.0	13900
EHIS27AXUAPH001C1K6SAXXXX	1	1600	Milliken	27	4	123.0	14800
EHIS27AXUAPH001C1K8SAXXXX	1	1800	Milliken	27	4	127.0	15700
EHIS27AXUAPH001C02KSAXXXX	1	2000	Milliken	27	4	130.0	16500
EHIS27AXUAPH001C2K5SAXXXX	1	2500	Milliken	27	4	136.0	18600

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.152	0.182	0.12	63	0.141	0.0999	0.173
500	0.0605	0.0789	0.145	0.165	0.13	60	0.124	0.0936	0.155
630	0.0469	0.0619	0.140	0.153	0.14	56	0.111	0.0886	0.142
800	0.0367	0.0494	0.134	0.143	0.15	53	0.101	0.0834	0.131
1000	0.0291	0.0403	0.129	0.135	0.17	49	0.0941	0.0783	0.122
1200	0.0247	0.0320	0.124	0.128	0.18	47	0.0872	0.0739	0.114
1400	0.0212	0.0275	0.121	0.124	0.19	45	0.0838	0.0711	0.110
1600	0.0186	0.0243	0.119	0.121	0.20	43	0.0812	0.0687	0.106
1800	0.0165	0.0216	0.117	0.119	0.21	42	0.0791	0.0672	0.104
2000	0.0149	0.0197	0.115	0.117	0.21	42	0.0775	0.0653	0.101
2500	0.0127	0.0170	0.111	0.112	0.23	39	0.0753	0.0616	0.0973





#### OUR ACCREDITATION



## POLYCAB HV CS+PAL IEC 62067 127/220 kV (245 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Poly. Al laminated

#### 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 <sup>2</sup>	Amps				KAmps
400	433	455	608	664	37.6
500	495	522	708	774	47.0
630	565	597	820	898	59.2
800	640	679	944	1039	75.2
1000	717	763	1078	1192	94.0
1200	815	863	1246	1373	112.8
1400	884	940	1368	1512	131.6
1600	948	1010	1483	1642	150.4
1800	1009	1079	1592	1766	169.2
2000	1065	1140	1696	1886	188.0
2500	1160	1247	1882	2105	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

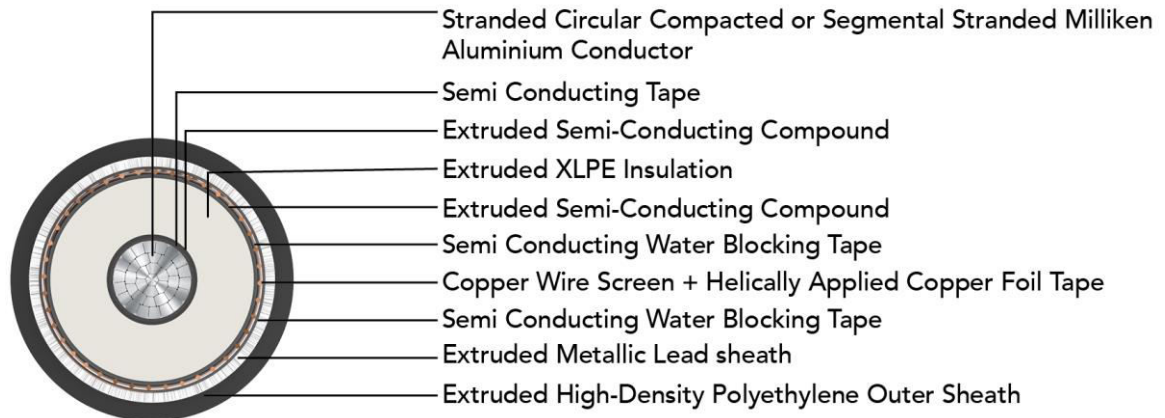
#### OUR ACCREDITATION





# POLYCAB HV CS+PB IEC 60840 38/66 kV (72.5 kV)

## HV Cable with Aluminium Conductor, Copper Screen and Lead 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
- Metallic Insulation Screen: Copper Wires + helically applied Copper foil tape
- Separator: Semi Conducting Water Blocking Tape
- Inner Sheath: Extruded Metallic Lead
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), 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



## POLYCAB HV CS+PB IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS24AXUAPH001C400SAXXXX	1	400	Compact	11	3.4	67.0	9400
EHIS24AXUAPH001C500SAXXXX	1	500	Compact	11	3.4	71.0	10300
EHIS24AXUAPH001C630SAXXXX	1	630	Compact	11	3.6	75.0	11500
EHIS24AXUAPH001C800SAXXXX	1	800	Compact	11	3.8	79.0	12900
EHIS24AXUAPH001C01KSAXXXX	1	1000	Compact	11	4	85.0	14700
EHIS24AXUAPH001C1K2SAXXXX	1	1200	Milliken	11	4	88.0	15800
EHIS24AXUAPH001C1K4SAXXXX	1	1400	Milliken	11	4	92.0	17400
EHIS24AXUAPH001C1K6SAXXXX	1	1600	Milliken	11	4	95.0	18800
EHIS24AXUAPH001C1K8SAXXXX	1	1800	Milliken	11	4	98.5	19900
EHIS24AXUAPH001C02KSAXXXX	1	2000	Milliken	11	4	101.0	21000
EHIS24AXUAPH001C2K5SAXXXX	1	2500	Milliken	11	4	107.0	23800

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.127	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





#### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Aluminium Conductor, Copper Screen and 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 <sup>2</sup>	Amps				KAmps
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

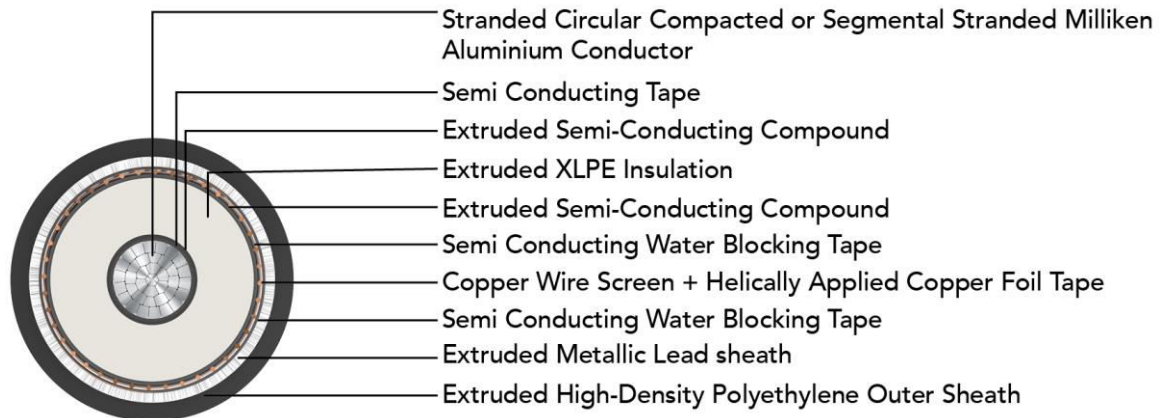
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV CS+PB IEC 60840 64/110 kV (123 kV)

## HV Cable with Aluminium Conductor, Copper Screen and Lead Sheath



### Outstanding Features

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

### Application

POLYCAB 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)

### 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
- Metallic Insulation Screen: Copper Wires + helically applied Copper foil tape
- Separator: Semi Conducting Water Blocking Tape
- Inner Sheath: Extruded Metallic Lead
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), 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

550kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 60840 64/110 kV (123 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS25AXUAPH001C400SAXXXX	1	400	Compact	16	3.6	77.0	11500
EHIS25AXUAPH001C500SAXXXX	1	500	Compact	16	3.8	81.0	13000
EHIS25AXUAPH001C630SAXXXX	1	630	Compact	16	4	85.0	14000
EHIS25AXUAPH001C800SAXXXX	1	800	Compact	16	4	89.0	15500
EHIS25AXUAPH001C01KSAXXXX	1	1000	Compact	16	4	95.0	17500
EHIS25AXUAPH001C1K2SAXXXX	1	1200	Milliken	16	4	98.0	18500
EHIS25AXUAPH001C1K4SAXXXX	1	1400	Milliken	16	4	102.0	20000
EHIS25AXUAPH001C1K6SAXXXX	1	1600	Milliken	16	4	105.0	21500
EHIS25AXUAPH001C1K8SAXXXX	1	1800	Milliken	16	4	108.0	22500
EHIS25AXUAPH001C02KSAXXXX	1	2000	Milliken	16	4	111.0	24000
EHIS25AXUAPH001C2K5SAXXXX	1	2500	Milliken	16	4	117.0	27000

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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



## POLYCAB HV CS+PB IEC 60840 64/110 kV (123 kV)

### HV Cable with Aluminium Conductor, Copper Screen and 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 <sup>2</sup>	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

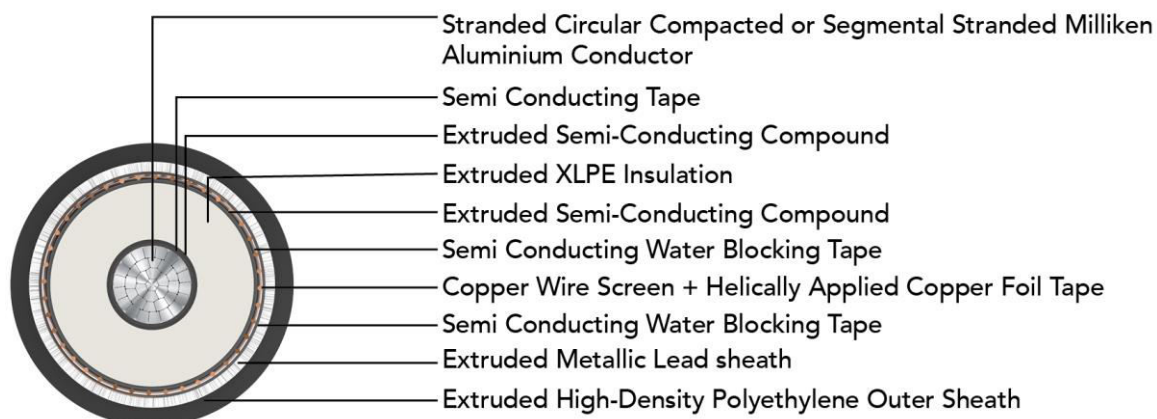
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Lead Sheath



#### Outstanding Features

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

#### Application

POLYCAB HV 76/132 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.

#### Voltage Rating

Nominal Voltage: 76/132 kV (145 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
- Metallic Insulation Screen: Copper Wires + helically applied Copper foil tape
- Separator: Semi Conducting Water Blocking Tape
- Inner Sheath: Extruded Metallic Lead
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), 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

650kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores No.	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.) Kg/Km
EHIS26AXUAPH001C400SAXXXX	1	400	Compact	18	3.8	81.0	13000
EHIS26AXUAPH001C500SAXXXX	1	500	Compact	18	4	85.0	14500
EHIS26AXUAPH001C630SAXXXX	1	630	Compact	18	4	89.0	16000
EHIS26AXUAPH001C800SAXXXX	1	800	Compact	18	4	93.0	17000
EHIS26AXUAPH001C01KSAXXXX	1	1000	Compact	18	4	98.0	19000
EHIS26AXUAPH001C1K2SAXXXX	1	1200	Milliken	18	4	101.0	20500
EHIS26AXUAPH001C1K4SAXXXX	1	1400	Milliken	18	4	106.0	22000
EHIS26AXUAPH001C1K6SAXXXX	1	1600	Milliken	18	4	109.0	23000
EHIS26AXUAPH001C1K8SAXXXX	1	1800	Milliken	18	4	112.0	25000
EHIS26AXUAPH001C02KSAXXXX	1	2000	Milliken	18	4	115.0	26500
EHIS26AXUAPH001C2K5SAXXXX	1	2500	Milliken	18	4	120.0	29500

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.140	0.173	0.16	53	0.178	0.0867	0.198
500	0.0605	0.0790	0.134	0.156	0.17	50	0.162	0.0810	0.181
630	0.0469	0.0621	0.130	0.144	0.19	47	0.152	0.0766	0.170
800	0.0367	0.0496	0.125	0.134	0.20	45	0.145	0.0719	0.162
1000	0.0291	0.0406	0.120	0.127	0.22	42	0.140	0.0675	0.155
1200	0.0247	0.0320	0.115	0.119	0.24	39	0.137	0.0637	0.151
1400	0.0212	0.0276	0.113	0.116	0.25	38	0.138	0.0615	0.151
1600	0.0186	0.0244	0.111	0.114	0.27	36	0.137	0.0595	0.149
1800	0.0165	0.0217	0.109	0.111	0.28	35	0.137	0.0579	0.149
2000	0.0149	0.0198	0.107	0.109	0.29	34	0.137	0.0562	0.148
2500	0.0127	0.0171	0.103	0.104	0.31	33	0.145	0.0531	0.154

#### OUR ACCREDITATION









## POLYCAB HV CS+PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Aluminium Conductor, Copper Screen and 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 <sup>2</sup>	Amps				KAmps
400	433	459	623	695	37.6
500	493	525	723	811	47.0
630	560	599	835	942	59.2
800	630	679	958	1090	75.2
1000	700	762	1088	1249	94.0
1200	789	860	1254	1438	112.8
1400	852	932	1374	1583	131.6
1600	906	998	1481	1717	150.4
1800	958	1062	1584	1846	169.2
2000	1004	1121	1679	1969	188.0
2500	1085	1221	1854	2195	235.0

Current ratings based on IEC 60287

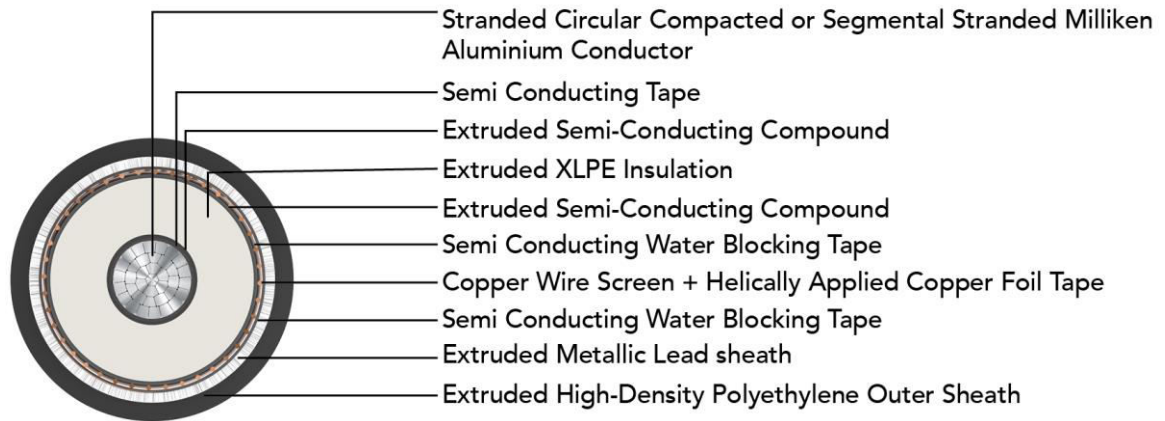
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV CS+PB IEC 62067 127/220 kV (245 kV)

## HV Cable with Aluminium Conductor, Copper Screen and Lead Sheath



### Outstanding Features

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

### Application

POLYCAB HV 127/220 KV (245 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: 127/220 kV (245 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
- Metallic Insulation Screen: Copper Wires + helically applied Copper foil tape
- Separator: Semi Conducting Water Blocking Tape
- Inner Sheath: Extruded Metallic Lead
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), Colour: Black
- Optional Semi-conductive layer

### Bending Radius: 20D

: D is overall diameter of cable

### Standard and References:

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

### Impulse Test Voltage

1050kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 62067 127/220 kV (245 kV)

### HV Cable with Aluminium Conductor, Copper Screen and Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS27AXUAPH001C400SAXXXX	1	400	Compact	27	4	100.0	18700
EHIS27AXUAPH001C500SAXXXX	1	500	Compact	27	4	104.0	20100
EHIS27AXUAPH001C630SAXXXX	1	630	Compact	27	4	107.0	21300
EHIS27AXUAPH001C800SAXXXX	1	800	Compact	27	4	111.0	23000
EHIS27AXUAPH001C01KSAXXXX	1	1000	Compact	27	4	115.0	25300
EHIS27AXUAPH001C1K2SAXXXX	1	1200	Milliken	27	4	119.0	27000
EHIS27AXUAPH001C1K4SAXXXX	1	1400	Milliken	27	4	123.0	28600
EHIS27AXUAPH001C1K6SAXXXX	1	1600	Milliken	27	4	126.0	30300
EHIS27AXUAPH001C1K8SAXXXX	1	1800	Milliken	27	4	129.0	31700
EHIS27AXUAPH001C02KSAXXXX	1	2000	Milliken	27	4	131.0	32900
EHIS27AXUAPH001C2K5SAXXXX	1	2500	Milliken	27	4	138.0	35900

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.154	0.184	0.12	64	0.160	0.102	0.190
500	0.0605	0.0789	0.148	0.168	0.13	60	0.145	0.0959	0.174
630	0.0469	0.0619	0.142	0.155	0.14	57	0.132	0.0908	0.160
800	0.0367	0.0493	0.137	0.146	0.15	54	0.124	0.0855	0.151
1000	0.0291	0.0402	0.131	0.137	0.17	50	0.119	0.0804	0.144
1200	0.0247	0.0319	0.126	0.130	0.18	47	0.116	0.0760	0.139
1400	0.0212	0.0275	0.123	0.126	0.19	45	0.114	0.0731	0.135
1600	0.0186	0.0242	0.121	0.123	0.20	44	0.114	0.0707	0.134
1800	0.0165	0.0216	0.119	0.121	0.21	42	0.114	0.0691	0.133
2000	0.0149	0.0196	0.117	0.119	0.21	42	0.115	0.0672	0.133
2500	0.0127	0.0169	0.113	0.114	0.23	40	0.119	0.0635	0.135





#### OUR ACCREDITATION



## POLYCAB HV CS+PB IEC 62067 127/220 kV (245 kV)

### HV Cable with Aluminium Conductor, Copper Screen and 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 <sup>2</sup>	Amps				KAmps
400	427	454	608	667	37.6
500	486	519	705	777	47.0
630	550	592	813	900	59.2
800	618	669	932	1039	75.2
1000	686	751	1058	1190	94.0
1200	770	845	1214	1366	112.8
1400	827	913	1325	1501	131.6
1600	880	978	1429	1627	150.4
1800	929	1039	1526	1746	169.2
2000	975	1095	1620	1862	188.0
2500	1049	1191	1784	2071	235.0

Current ratings based on IEC 60287

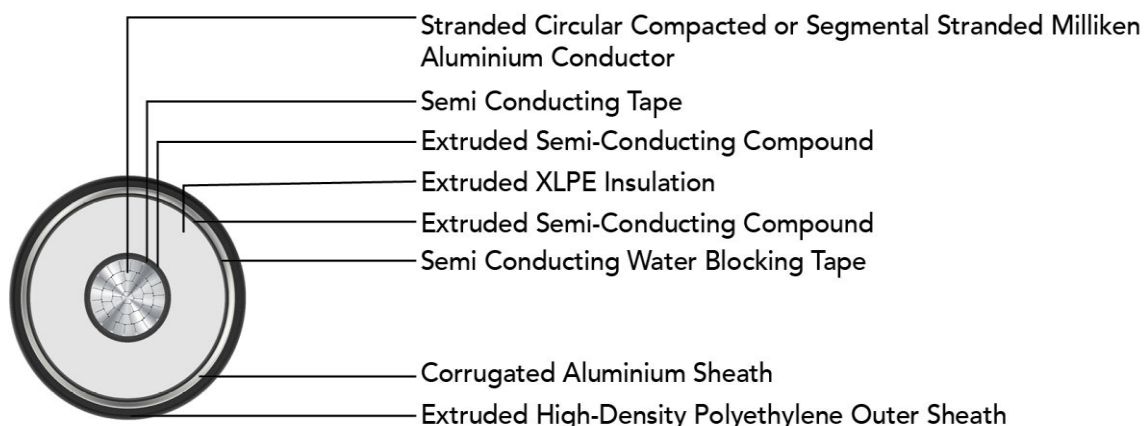
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## 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



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

### HV Cable with Aluminium Conductor, Aluminium Corrugated Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						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 <sup>2</sup>	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





#### OUR ACCREDITATION



## 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 <sup>2</sup>	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

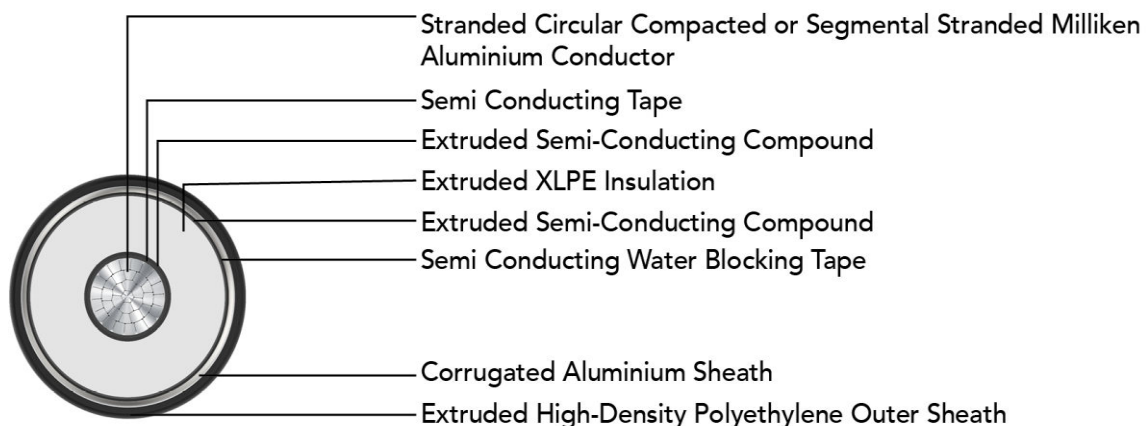
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 60840 64/110 kV (123 kV)

### HV Cable with Aluminium Conductor, Aluminium Corrugated Sheath



#### Outstanding Features

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

#### Application

POLYCAB 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)

#### 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

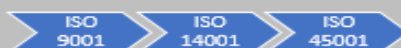
550kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION





## POLYCAB HV AL.COR IEC 60840 64/110 kV (123 kV)

### HV Cable with Aluminium Conductor, Aluminium Corrugated Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS25AXATPH001C400SAXXXX	1	400	Compact	16	3.8	80.0	7000
EHIS25AXATPH001C500SAXXXX	1	500	Compact	16	4	84.0	7800
EHIS25AXATPH001C630SAXXXX	1	630	Compact	16	4	87.0	8400
EHIS25AXATPH001C800SAXXXX	1	800	Compact	16	4	91.0	8800
EHIS25AXATPH001C01KSAXXXX	1	1000	Compact	16	4	96.0	9800
EHIS25AXATPH001C1K2SAXXXX	1	1200	Milliken	16	4	103.0	11200
EHIS25AXATPH001C1K4SAXXXX	1	1400	Milliken	16	4	107.0	12100
EHIS25AXATPH001C1K6SAXXXX	1	1600	Milliken	16	4	110.0	13000
EHIS25AXATPH001C1K8SAXXXX	1	1800	Milliken	16	4	113.0	13900
EHIS25AXATPH001C02KSAXXXX	1	2000	Milliken	16	4	116.0	14600
EHIS25AXATPH001C2K5SAXXXX	1	2500	Milliken	16	4	122.0	16500

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.142	0.174	0.17	52	0.161	0.0874	0.183
500	0.0605	0.0790	0.136	0.157	0.19	48	0.143	0.0816	0.165
630	0.0469	0.0620	0.130	0.144	0.20	46	0.131	0.0768	0.152
800	0.0367	0.0496	0.125	0.134	0.22	43	0.120	0.0720	0.140
1000	0.0291	0.0405	0.121	0.128	0.24	40	0.111	0.0675	0.130
1200	0.0247	0.0320	0.117	0.121	0.26	38	0.0993	0.0638	0.118
1400	0.0212	0.0276	0.114	0.117	0.28	36	0.0928	0.0615	0.111
1600	0.0186	0.0243	0.112	0.115	0.29	35	0.0879	0.0595	0.106
1800	0.0165	0.0217	0.110	0.112	0.30	34	0.0836	0.0579	0.102
2000	0.0149	0.0197	0.108	0.110	0.32	33	0.0800	0.0562	0.0978
2500	0.0127	0.0171	0.105	0.106	0.35	31	0.0740	0.0531	0.0911





#### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 60840 64/110 kV (123 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 <sup>2</sup>	Amps				KAmps
400	428	455	608	675	37.6
500	487	520	705	787	47.0
630	551	593	813	914	59.2
800	619	671	931	1055	75.2
1000	686	753	1054	1207	94.0
1200	768	845	1208	1383	112.8
1400	822	914	1314	1517	131.6
1600	870	976	1411	1642	150.4
1800	913	1033	1501	1761	169.2
2000	951	1086	1584	1873	188.0
2500	1009	1174	1725	2074	235.0

Current ratings based on IEC 60287

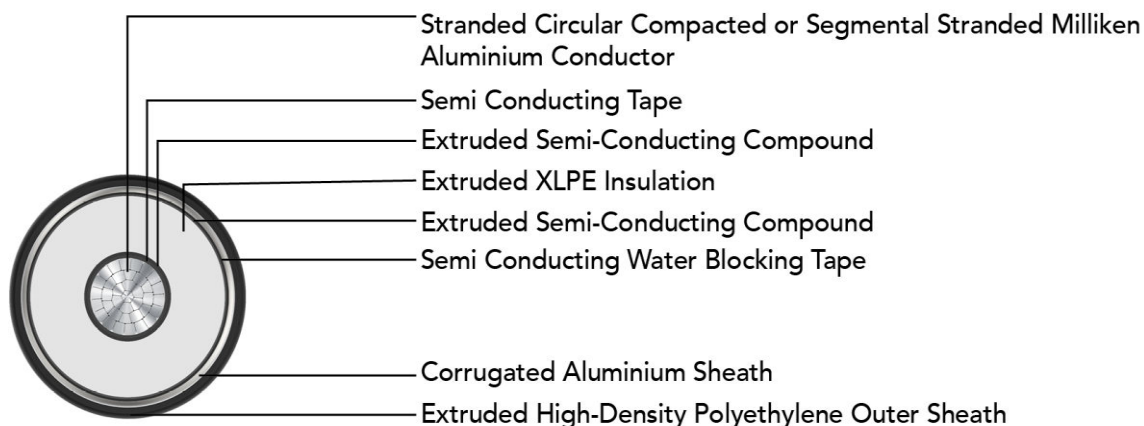
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV AL.COR IEC 60840 76/132 kV (145 kV)

## HV Cable with Aluminium Conductor, Aluminium Corrugated Sheath



### Outstanding Features

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

### Application

POLYCAB HV 76/132 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.

### Voltage Rating

Nominal Voltage: 76/132 kV (145 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

650kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 60840 76/132 kV (145 kV)

### HV Cable with Aluminium Conductor, Aluminium Corrugated Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.) Kg/Km
EHIS26AXATPH001C300SAXXXX	1	300	Compact	18	3.8	81.0	7100
EHIS26AXATPH001C400SAXXXX	1	400	Compact	18	4	84.0	7600
EHIS26AXATPH001C500SAXXXX	1	500	Compact	18	4	88.0	8300
EHIS26AXATPH001C630SAXXXX	1	630	Compact	18	4	91.0	9000
EHIS26AXATPH001C800SAXXXX	1	800	Compact	18	4	95.0	9400
EHIS26AXATPH001C01KSAXXXX	1	1000	Compact	18	4	100.0	10400
EHIS26AXATPH001C1K2SAXXXX	1	1200	Milliken	18	4	107.0	11900
EHIS26AXATPH001C1K4SAXXXX	1	1400	Milliken	18	4	111.0	12800
EHIS26AXATPH001C1K6SAXXXX	1	1600	Milliken	18	4	114.0	13700
EHIS26AXATPH001C1K8SAXXXX	1	1800	Milliken	18	4	117.0	14600
EHIS26AXATPH001C02KSAXXXX	1	2000	Milliken	18	4	120.0	15300
EHIS26AXATPH001C2K5SAXXXX	1	2500	Milliken	18	4	126.0	17300

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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
300	0.100	0.129	0.151	0.199	0.15	57	0.184	0.0967	0.208
400	0.0778	0.101	0.145	0.177	0.16	54	0.161	0.0910	0.185
500	0.0605	0.0790	0.139	0.160	0.17	51	0.143	0.0850	0.166
630	0.0469	0.0620	0.134	0.148	0.19	47	0.129	0.0802	0.152
800	0.0367	0.0495	0.129	0.138	0.20	45	0.118	0.0753	0.140
1000	0.0291	0.0404	0.124	0.130	0.22	42	0.107	0.0710	0.128
1200	0.0247	0.0320	0.119	0.123	0.24	40	0.0956	0.0669	0.117
1400	0.0212	0.0276	0.117	0.120	0.25	39	0.0894	0.0644	0.110
1600	0.0186	0.0243	0.114	0.117	0.27	37	0.0847	0.0623	0.105
1800	0.0165	0.0217	0.112	0.114	0.28	36	0.0807	0.0606	0.101
2000	0.0149	0.0197	0.111	0.113	0.29	35	0.0772	0.0589	0.0971
2500	0.0127	0.0170	0.107	0.108	0.31	33	0.0715	0.0556	0.0906





#### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 60840 76/132 kV (145 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 <sup>2</sup>	Amps				KAmps
300	376	398	524	576	28.2
400	428	455	606	669	37.6
500	487	520	703	780	47.0
630	552	594	810	905	59.2
800	619	671	927	1045	75.2
1000	686	753	1049	1193	94.0
1200	766	845	1201	1369	112.8
1400	821	912	1307	1501	131.6
1600	868	974	1402	1624	150.4
1800	911	1033	1492	1742	169.2
2000	949	1086	1574	1853	188.0
2500	1007	1171	1715	2051	235.0

Current ratings based on IEC 60287

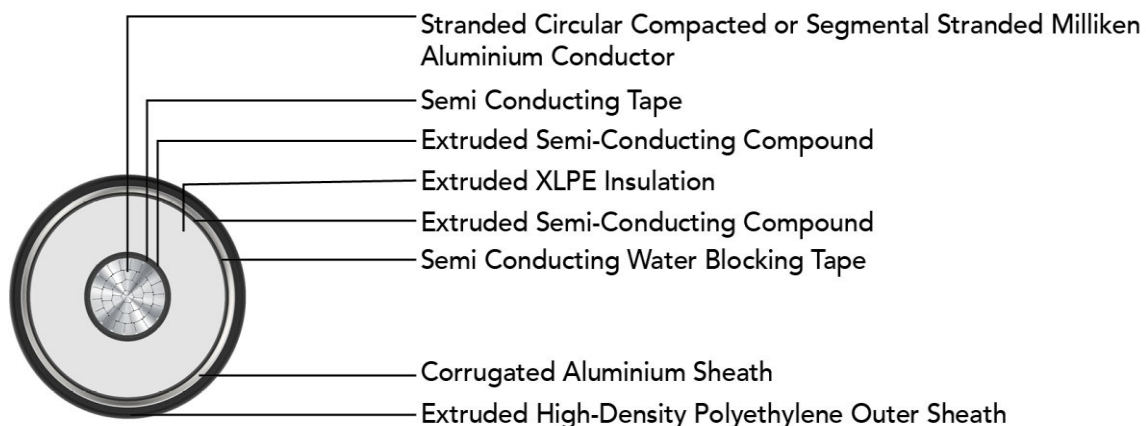
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV AL.COR IEC 62067 127/220 kV (245 kV)

## HV Cable with Aluminium Conductor, Aluminium Corrugated Sheath



### Outstanding Features

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

### 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.

### Voltage Rating

Nominal Voltage: 127/220 kV (145 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 62067  
IS 7098-3  
ICEA S-108-720

### Impulse Test Voltage

1050kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 62067 127/220 kV (245 kV)

### HV Cable with Aluminium Conductor, Aluminium Corrugated Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.) 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 mm <sup>2</sup>	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	0.157	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





#### OUR ACCREDITATION



## POLYCAB HV AL.COR IEC 62067 127/220 kV (245 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 <sup>2</sup>	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

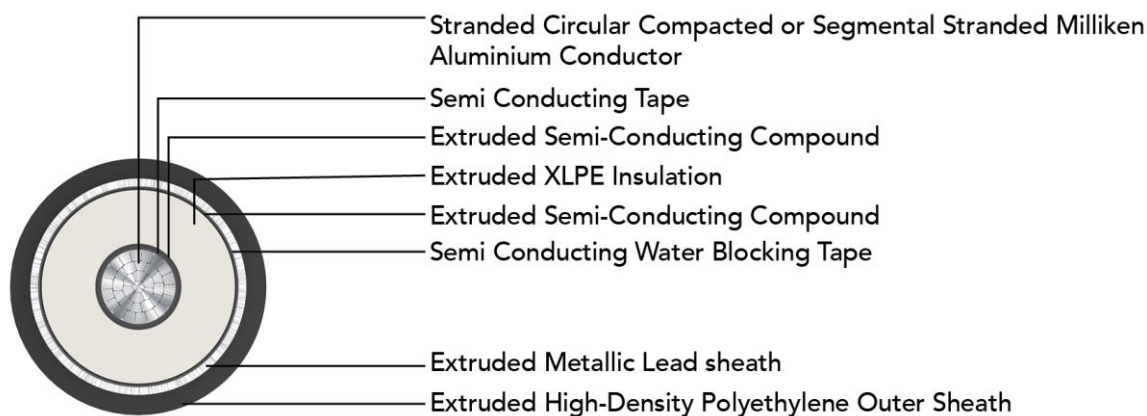
#### OUR ACREDITATION





## POLYCAB HV PB IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Aluminium Conductor, Lead 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
- Inner Sheath: Extruded Metallic Lead alloy
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), 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



## POLYCAB HV PB IEC 60840 38/66 kV (72.5 kV)

### HV Cable with Aluminium Conductor, Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores No.	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.) 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 mm <sup>2</sup>	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	0.127	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





#### OUR ACCREDITATION



## POLYCAB HV PB IEC 60840 38/66 kV (72.5 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 <sup>2</sup>	Amps				KAmps
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

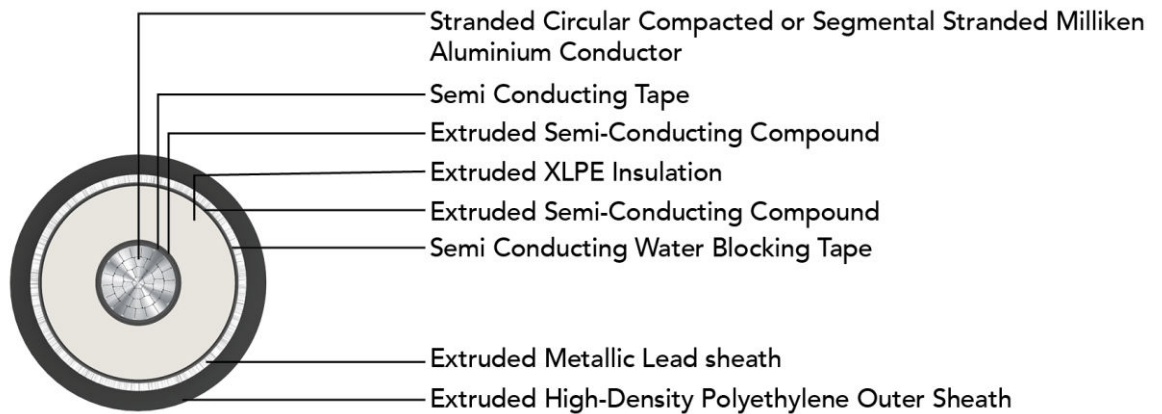
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB 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

POLYCAB 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)

#### 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
- Inner Sheath: Extruded Metallic Lead alloy
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), 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

550kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV PB IEC 60840 64/110 kV (123 kV)

### HV Cable with Aluminium Conductor, Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
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 <sup>2</sup>	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



## POLYCAB 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 <sup>2</sup>	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

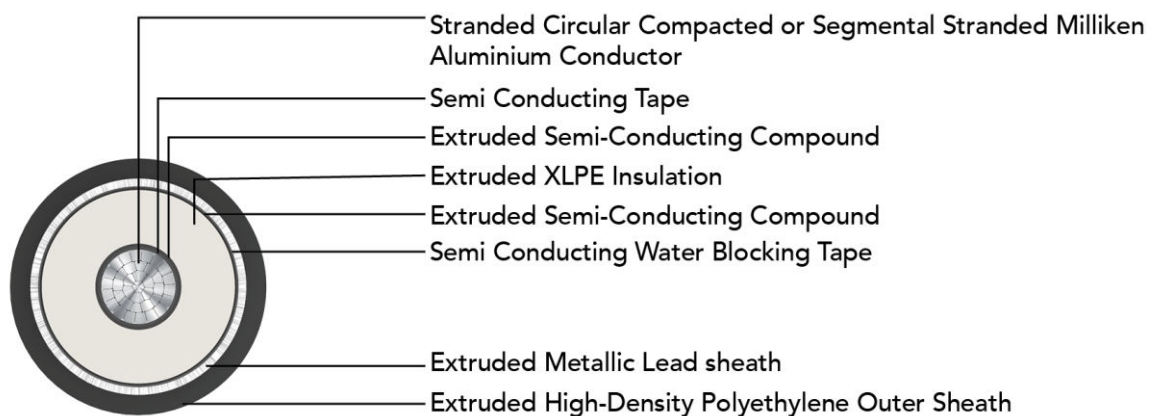
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



## POLYCAB HV PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Aluminium Conductor, Lead Sheath



#### Outstanding Features

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

#### Application

POLYCAB HV 76/132 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.

#### Voltage Rating

Nominal Voltage: 76/132 kV (145 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
- Inner Sheath: Extruded Metallic Lead alloy
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), 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

650kV

#### Compliance

- Conductor resistance IEC 60228



#### OUR ACCREDITATION



## POLYCAB HV PB IEC 60840 76/132 kV (145 kV)

### HV Cable with Aluminium Conductor, Lead Sheath

#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS26AXUAPH001C400SAXXXX	1	400	Compact	18	3.8	79.0	10900
EHIS26AXUAPH001C500SAXXXX	1	500	Compact	18	3.8	83.0	11700
EHIS26AXUAPH001C630SAXXXX	1	630	Compact	18	4	86.0	13000
EHIS26AXUAPH001C800SAXXXX	1	800	Compact	18	4	90.0	14400
EHIS26AXUAPH001C01KSAXXXX	1	1000	Compact	18	4	96.0	16800
EHIS26AXUAPH001C1K2SAXXXX	1	1200	Milliken	18	4	103.0	18500
EHIS26AXUAPH001C1K4SAXXXX	1	1400	Milliken	18	4	107.0	19900
EHIS26AXUAPH001C1K6SAXXXX	1	1600	Milliken	18	4	111.0	21400
EHIS26AXUAPH001C1K8SAXXXX	1	1800	Milliken	18	4	114.0	22900
EHIS26AXUAPH001C02KSAXXXX	1	2000	Milliken	18	4	116.0	24000
EHIS26AXUAPH001C2K5SAXXXX	1	2500	Milliken	18	4	122.0	27000

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.140	0.173	0.16	53	0.178	0.0867	0.198
500	0.0605	0.0790	0.134	0.156	0.17	50	0.162	0.0810	0.181
630	0.0469	0.0621	0.130	0.144	0.19	47	0.152	0.0766	0.170
800	0.0367	0.0496	0.125	0.134	0.20	45	0.145	0.0719	0.162
1000	0.0291	0.0406	0.120	0.127	0.22	42	0.140	0.0675	0.155
1200	0.0247	0.0320	0.115	0.119	0.24	39	0.137	0.0637	0.151
1400	0.0212	0.0276	0.113	0.116	0.25	38	0.138	0.0615	0.151
1600	0.0186	0.0244	0.111	0.114	0.27	36	0.137	0.0595	0.149
1800	0.0165	0.0217	0.109	0.111	0.28	35	0.137	0.0579	0.149
2000	0.0149	0.0198	0.107	0.109	0.29	34	0.137	0.0562	0.148
2500	0.0127	0.0171	0.103	0.104	0.31	33	0.145	0.0531	0.154

#### OUR ACCREDITATION









## POLYCAB HV PB IEC 60840 76/132 kV (145 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 <sup>2</sup>	Amps				KAmps
400	433	459	623	695	37.6
500	493	525	723	811	47.0
630	560	599	835	942	59.2
800	630	679	958	1090	75.2
1000	700	762	1088	1249	94.0
1200	789	860	1254	1438	112.8
1400	852	932	1374	1583	131.6
1600	906	998	1481	1717	150.4
1800	958	1062	1584	1846	169.2
2000	1004	1121	1679	1969	188.0
2500	1085	1221	1854	2195	235.0

Current ratings based on IEC 60287

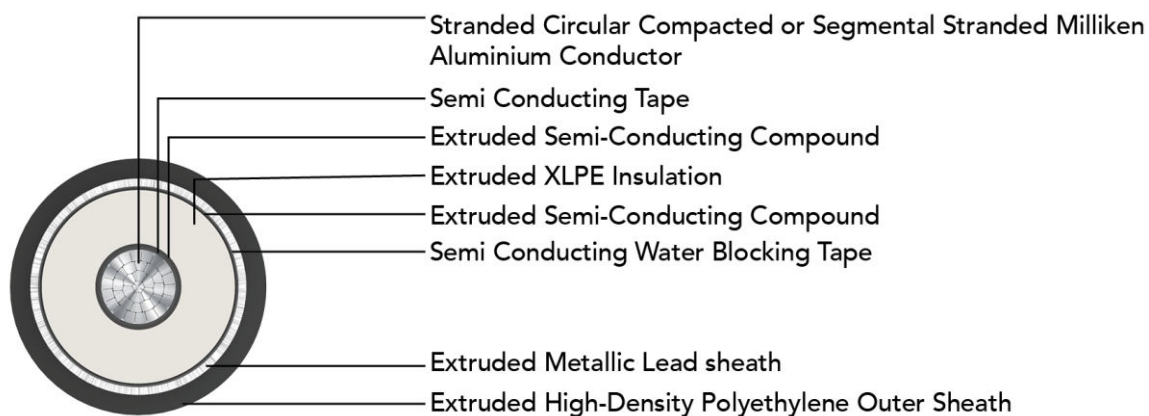
Supply frequency	50 Hz
Maximum conductor temperature	90°C
Ambient air temperature	40°C
Ground temperature	30°C
Depth of laying	1000 m
Thermal resistivity of soil	1.5 K.m/W

#### OUR ACCREDITATION



# POLYCAB HV PB IEC 62067 127/220 kV (245 kV)

## HV Cable with Aluminium Conductor, Lead Sheath



### Outstanding Features

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

### Application

POLYCAB HV 127/220 KV (245 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: 127/220 kV (245 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
- Inner Sheath: Extruded Metallic Lead alloy
- Outer Sheath: Extruded High-density polyethylene (HDPE) (PVC, available as per demand), Colour: Black
- Optional Semi-conductive layer

### Bending Radius: 20D

: D is overall diameter of cable

### Standard and References:

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

### Impulse Test Voltage

1050kV

### Compliance

- Conductor resistance IEC 60228



### OUR ACCREDITATION



## POLYCAB HV PB IEC 62067 127/220 kV (245 kV)

### HV Cable with Aluminium Conductor, Lead Sheath

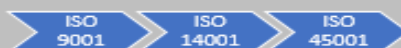
#### DIMENSIONS AND WEIGHT:

Product Code	No. of Cores	Core Cross sectional Area mm <sup>2</sup>	Conductor type	Insulation thickness (Approx.) mm	Sheath thickness (Approx.) mm	Diameter Overall (Nominal) mm	Weight (Approx.)
	No.						Kg/Km
EHIS27AXUAPH001C400SAXXXX	1	400	Compact	27	4	96.0	15300
EHIS27AXUAPH001C500SAXXXX	1	500	Compact	27	4	100.0	16200
EHIS27AXUAPH001C630SAXXXX	1	630	Compact	27	4	103.0	17200
EHIS27AXUAPH001C800SAXXXX	1	800	Compact	27	4	107.0	18800
EHIS27AXUAPH001C01KSAXXXX	1	1000	Compact	27	4	113.0	21600
EHIS27AXUAPH001C1K2SAXXXX	1	1200	Milliken	27	4	120.0	23900
EHIS27AXUAPH001C1K4SAXXXX	1	1400	Milliken	27	4	124.0	25800
EHIS27AXUAPH001C1K6SAXXXX	1	1600	Milliken	27	4	127.0	27100
EHIS27AXUAPH001C1K8SAXXXX	1	1800	Milliken	27	4	131.0	28800
EHIS27AXUAPH001C02KSAXXXX	1	2000	Milliken	27	4	133.0	30000
EHIS27AXUAPH001C2K5SAXXXX	1	2500	Milliken	27	4	139.0	32800

#### ELECTRICAL CHARACTERISTICS:

Core Cross sectional Area mm <sup>2</sup>	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	0.154	0.184	0.12	64	0.160	0.102	0.190
500	0.0605	0.0789	0.148	0.168	0.13	60	0.145	0.0959	0.174
630	0.0469	0.0619	0.142	0.155	0.14	57	0.132	0.0908	0.160
800	0.0367	0.0493	0.137	0.146	0.15	54	0.124	0.0855	0.151
1000	0.0291	0.0402	0.131	0.137	0.17	50	0.119	0.0804	0.144
1200	0.0247	0.0319	0.126	0.130	0.18	47	0.116	0.0760	0.139
1400	0.0212	0.0275	0.123	0.126	0.19	45	0.114	0.0731	0.135
1600	0.0186	0.0242	0.121	0.123	0.20	44	0.114	0.0707	0.134
1800	0.0165	0.0216	0.119	0.121	0.21	42	0.114	0.0691	0.133
2000	0.0149	0.0196	0.117	0.119	0.21	42	0.115	0.0672	0.133
2500	0.0127	0.0169	0.113	0.114	0.23	40	0.119	0.0635	0.135





#### OUR ACCREDITATION



## POLYCAB HV PB IEC 62067 127/220 kV (245 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 <sup>2</sup>	Amps				KAmps
400	427	454	608	667	37.6
500	486	519	705	777	47.0
630	550	592	813	900	59.2
800	618	669	932	1039	75.2
1000	686	751	1058	1190	94.0
1200	770	845	1214	1366	112.8
1400	827	913	1325	1501	131.6
1600	880	978	1429	1627	150.4
1800	929	1039	1526	1746	169.2
2000	975	1095	1620	1862	188.0
2500	1049	1191	1784	2071	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

