ASC (Aerial Spacer Cable)

AL/SC/XLPE/HDPE– 20 kV Cable

CABLE STANDARDS

Power Industry Standard, IEC 60228,

APPLICATION

The Spacer Cable has performed extremely well in very severe conditions. It has had to withstand wind gusts of hurricane force as well as severe snow and ice incidents. In comparison with Tree Wire System, the Spacer Cable has accreted less snow/ice and suffered less from wind loads, especially as the weather conditions got worse.In comparison with bare Hazel conductor, the Spacer Cable has generally performed better under all scenarios.

CONSTRUCTION

Conductor

Class 2 stranded Aluminum conductors

Inner Semi-Conductive Layer

Semi-conductive material

Insulation

XLPE (Cross-linked polyethylene)

Sheath

HDPE (High Density Poly Ethylene)

CHARACTERISTICS

Voltage Rating

20 kV

Temperature Rating

-20°C to +90°C

Conductor OF Operation Temperature

Under normal conditions : 85 °C

Operation in emergency situations : 105 °C

Short Circuit Temperature

+250°C

Minimum Bending Radius

15 x Overall Diameter for Single Core

Sheath Color

Black

OFOGH ALBORZ INDUSTRIAL GROUP

ASC (Aerial Spacer Cable)

AL/SC/XLPE/HDPE– 20 kV Cable

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA Conductor mm²	Max DC Conductor Resistance at 20◦C Ω.km	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY Air 20 ◦C Approx	Capacitance µf.km Approx	minimum strength Tension Wires Approx	OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
1	70	0.443	6.8	229	0.24	10.420	23.6	533
1	120	0.253	11.6	321	0.30	18.518	26.8	729
1	150	0.206	14.5	371	0.32	22.457	28.2	827
1	185	0.164	17.8	429	0.35	28.974	29.9	960
1	240	0.125	23.1	487	0.39	36.910	32.3	1157

ASC (Aerial Spacer Cable)

AL/SC/XLPE/HDPE– 33 kV Cable

CABLE STANDARDS

Power Industry Standard, IEC 60228,

APPLICATION

The Spacer Cable has performed extremely well in very severe conditions. It has had to withstand wind gusts of hurricane force as well as severe snow and ice incidents. In comparison with Tree Wire System, the Spacer Cable has accreted less snow/ice and suffered less from wind loads, especially as the weather conditions got worse.In comparison with bare Hazel conductor, the Spacer Cable has generally performed better under all scenarios.

CONSTRUCTION

Conductor

Class 2 stranded Aluminum conductors

Inner Semi-Conductive Layer

Semi-conductive material

Insulation

XLPE (Cross-linked polyethylene)

Sheath

HDPE (High Density Poly Ethylene)

CHARACTERISTICS

Voltage Rating

33 kV

Temperature Rating

-20°C to +90°C

Conductor OF Operation Temperature

Under normal conditions : 85 °C

Operation in emergency situations : 105 °C

Short Circuit Temperature

+250°C

Minimum Bending Radius

15 x Overall Diameter for Single Core

Sheath Color

Black

ASC (Aerial Spacer Cable)

AL/SC/XLPE/HDPE- 33 kV Cable

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA Conductor mm²	Max DC Conductor Resistance at 20◦C Ω.km	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY Air 20 ◦C Approx	Capacitance µf.km Approx	minimum strength Tension Wires Approx	OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
1	70	0.443	6.8	229	0.19	10.420	26.2	630
1	120	0.253	11.6	321	0.24	18.518	29.4	839
1	150	0.206	14.5	371	0.26	22.457	30.8	943
1	185	0.164	17.8	429	0.28	28.974	32.5	1082
1	240	0.125	23.1	487	0.31	36.910	34.9	1288