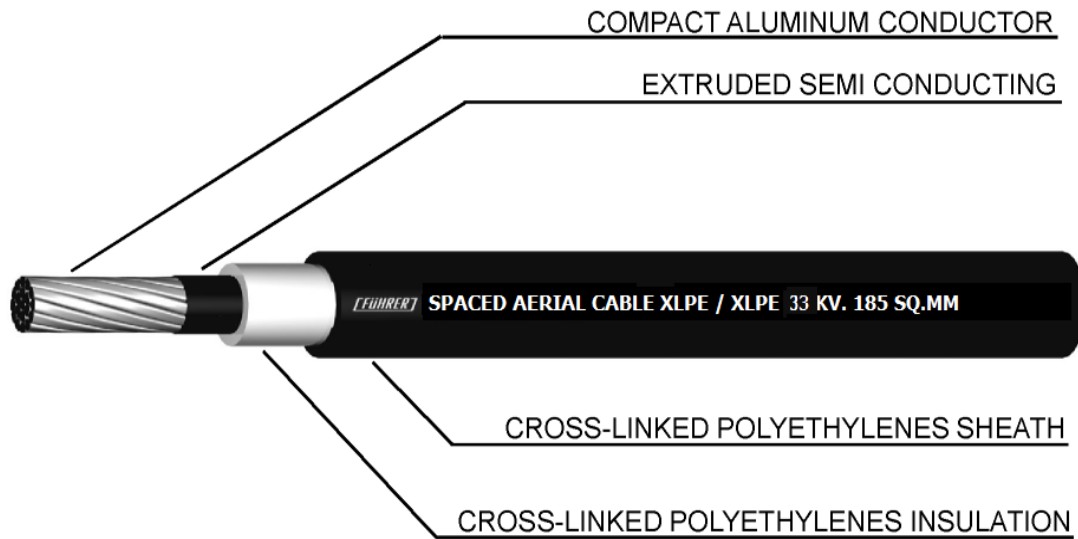


**ALUMINUM STRANDED CONDUCTOR CROSS-LINKED POLYETHYLENE INSULATED AND SHEATHED SPACED AERIAL CABLE****CABLE STRUTURE**

<b>NUMBER OF CORE</b>	:	Single core
<b>CONDUCTOR</b>	:	Compact stranded hard drawn Aluminum wire Conductor sizes 50 mm <sup>2</sup> up to 240 mm <sup>2</sup>
<b>CONDUCTOR SHIELD</b>	:	Semi conducting cross-linked polyethylene
<b>INSULATION</b>	:	Cross-linked polyethylene
<b>SHEATH</b>	:	Track resistant cross-linked polyethylene Colour : Black
<b>CLASSIFICATION</b>	:	Normal operation 90°C Emergency overload conditions 130°C Short circuit conditions 250 °C Voltage rating 35 kV. (Phase to Phase)
<b>TESTING VOLTAGE</b>	:	49 kV for 5 minutes
<b>REFERENCE</b>	:	ICEA S-66-524 / PEA / TIS.2341-2564 (T4)

# SAC 33 KV

## STANDARD

ICEA S-66-524 / PEA / TIS.2341-2564

### ALUMINUM STRANDED CONDUCTOR CROSS-LINKED POLYETHYLENE INSULATED AND SHEATHED SPACED AERIAL CABLE

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Minimum number of wire (no.)	Diameter of conductor approx (mm.)	Thickness of insulation (mm.)	Thickness of sheath (mm.)	Overall Diameter (approx) (mm.)	Maximum DC conductor resistance at 20°C (Ω-KM)	Minimum breaking strength of conductor (N)	Minimum insulation resistance at 15.6°C (MΩ-KM)	Allowable current amp cities in free air at 40°C (A)	Cable weight (approx) (Kg/Km)	Standard length (m/d)
1	50	6	8.00	7.18	1.75	27.90	0.641	7,313	2,890	184	650	1,000/ D
	70	6	9.80	7.18	1.75	29.60	0.443	10,420	2,545	255	700	1,000/ D
	95	15	11.45	7.18	1.75	31.25	0.320	14,098	2,300	276	750	1,000/ D
	120	15	12.95	7.18	1.75	32.75	0.253	18,518	2,115	318	850	1,000/ D
	150	15	14.20	7.18	1.75	34.00	0.206	22,457	1,985	405	990	1,000/ D
	185	30	15.98	7.18	1.75	35.80	0.164	28,974	1,825	425	1,100	1,000/ D
	240	30	18.47	7.18	1.75	38.30	0.125	37,506	1,640	555	1,390	1,000/ D

D : Packing in drum