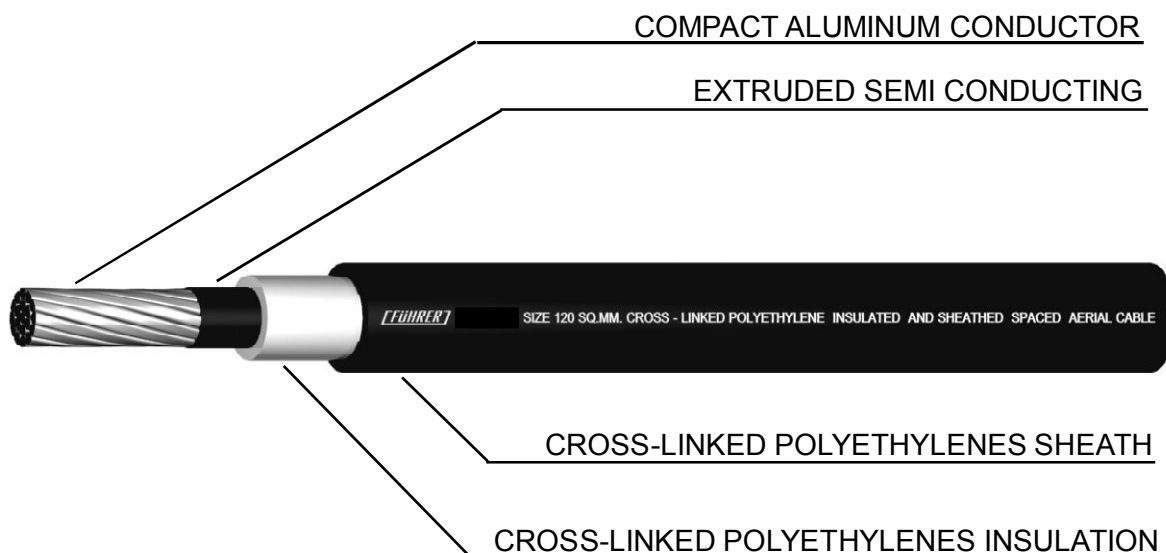


ALUMINUM STRANDED CONDUCTOR CROSS-LINKED POLYETHYLENE INSULATED AND SHEATHED SPACED AERIAL CABLE**CABLE STRUCTURE**

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

SAC 35 KV

Number of core	Nominal cross sectional area (mm ²)	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 (ambient) (A)	Cable weight (Approx) (Kg/Km)	Standard length (m/d)
1	35	7	6.96	4.445	3.175	23.42	0.868	5,591	2,900	148	490	1,000/D
	50	7	8.28	4.445	3.175	14.93	0.641	7,313	2,600	184	530	1,000/D
	70	18	9.80	4.445	3.175	26.26	0.443	10,420	2,400	227	630	1,000/D
	95	18	11.45	4.445	3.175	27.91	0.320	14,098	2,100	276	750	1,000/D
	120	18	12.95	4.445	3.175	29.41	0.253	18,518	2,000	318	850	1,000/D
	150	18	14.20	4.445	3.175	30.66	0.206	22,457	1,800	367	960	1,000/D
	185	34	15.98	4.445	3.175	32.44	0.164	28,974	1,700	125	1,100	1,000/D
	240	34	18.47	4.445	3.175	34.93	0.125	37,506	1,500	515	1,400	1,000/D

D: Packing in drum.