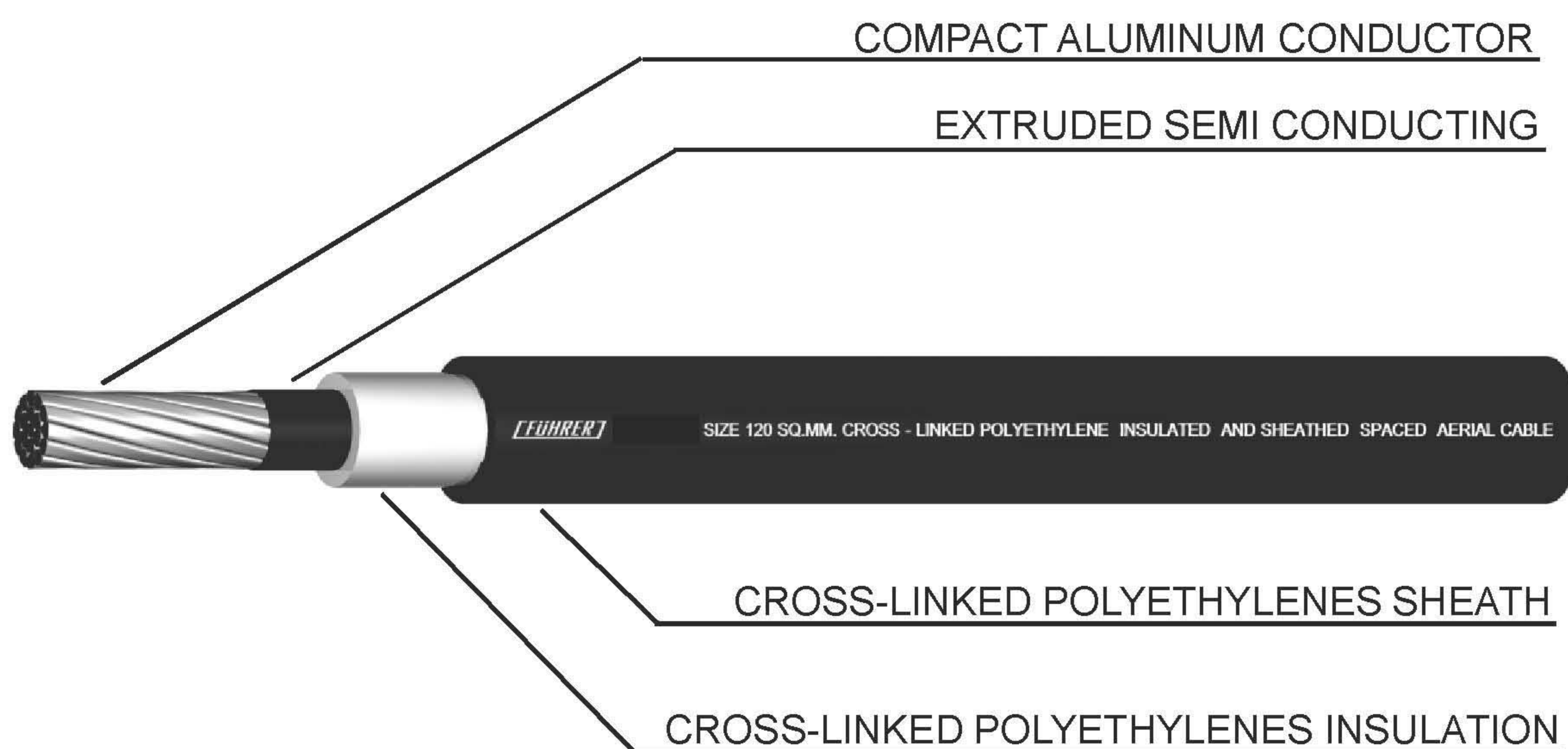


# SAC 25 KV

STANDARD

ICEA S-66-524 / MEA / PEA / TIS.2341-2555

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 <sup>2</sup> up to 240 mm <sup>2</sup>
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 25 Kv.( Phase to Phase )
TESTING VOLTAGE	:	38KV for 5 minutes
REFERENCE	:	ICEA S-66-524 /MEA/PEA





**STANDARD**

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**SAC 25 KV**

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 (ambient) (A)	Cable weight (Approx) (Kg/Km)	Standard length (m/d)
1	35	7	6.96	3.175	3.175	20.88	0.868	5,591	2,500	149	390	1,000/D
	50	7	8.28	3.175	3.175	22.20	0.641	7,313	2,250	186	440	1,000/D
	70	18	9.80	3.175	3.175	23.72	0.443	10,420	2,050	229	540	1,000/D
	95	18	11.45	3.175	3.175	25.37	0.320	14,098	1,850	279	640	1,000/D
	120	18	12.95	3.175	3.175	26.87	0.253	18,518	1,700	321	740	1,000/D
	150	18	14.20	3.175	3.175	28.12	0.206	22,457	1,600	371	850	1,000/D
	185	34	15.98	3.175	3.175	29.90	0.164	28,974	1,500	429	990	1,000/D
	240	34	18.47	3.175	3.175	32.39	0.125	37,506	1,300	520	1,190	1,000/D

D: Packing in drum.

