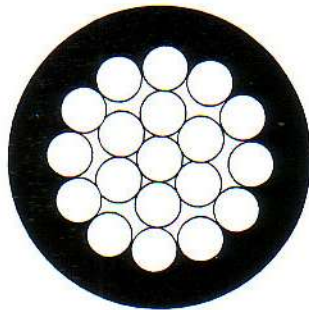


# Overhead Transmission Line

*Aluminium Alloy Conductor and XLPE Sheathed*



Type of Cable : AAAC - S

Specification : SPLN 41-10 : 1991  
SPLN 41-8 : 1981

Application : Used for overhead 20 kV  
Transmission line

## Construction :

1. Conductor : Stranded Aluminium Alloy ( AAAC )
2. Sheath : Extruded XLPE

# OVERHEAD TRANSMISSION LINE ALUMINIUM ALLOY CONDUCTOR AND XLPE SHEATHED

Type of Cable : AAAC-S

SPECIFICATION : SPLN 41-10  
SPLN 41-8

## CONSTRUCTION

Size of Cable	Number / Diameter of Wire	Nominal Thickness of Sheath	Approx. Overall Diameter	Approx. Weight of Cable	Standard Length per Drum
mm <sup>2</sup>	n / mm	mm	mm	kg/km	m
35	7 / 2.50	3.0	13.9	204	2,000
50	19 / 1.75	3.0	15.2	244	2,000
70	19 / 2.25	3.0	17.7	353	2,000
95	19 / 2.50	3.0	18.9	415	2,000
120	19 / 2.75	3.0	20.2	483	2,000
150	19 / 3.23	3.0	22.6	628	1,000
150	37 / 2.25	3.0	22.2	594	1,000
185	37 / 2.50	3.0	23.9	707	1,000
240	61 / 2.25	3.0	26.7	900	1,000

## CHARACTERISTICS

Size of Cable	Maximum DC Conductor Resistance at 20 °C	Maximum Current Carrying Capacity		Calculated Breaking Load of Conductor	AC Voltage Test
		at 30°C	at 40°C		
mm <sup>2</sup>	ohm/km	A		N	kV / 5 min.
35	0.958	167	150	9,615	13
50	0.724	200	180	12,750	13
70	0.438	275	246	21,090	13
95	0.355	315	282	26,095	13
120	0.293	356	319	31,590	13
150	0.210	423	378	44,045	13
150	0.225	423	378	41,105	13
185	0.183	484	432	50,765	13
240	0.139	586	523	67,785	13