

BARE OVERHEAD CONDUCTORS

30. ACSR – ALUMINIUM CONDUCTORS STEEL REINFORCED



ACSR conductors are used as bare overhead transmission and as primary and secondary distribution cable. This wire is suitable for use in all practical spans on wood poles, transmission towers, and other structures. Applications range from long, extra high voltage (EHV) transmission lines to sub-service spans at distribution or utilization voltages on private premises.

ACSR has a long service record because of its economy, dependability, and strength to weight ratio. The combined light weight and high conductivity of Aluminium with strength of the steel core enables higher tensions, less sag, and longer spans than any alternative.

STANDARD	AS 3607
CONDUCTOR	Aluminium 1350, Galvanised Steel (Class 2)

Product Name	Conductor				Approximate Mass kg/km	Calculated breaking load (min.) kN
	Aluminium No./mm	Galv. Steel No./mm	mm ²	Diameter		
ALMOND	6/2.50	1/2.50	34.4	7.5	119	10.5
APRICOT	6/2.75	1/2.75	41.6	8.3	144	12.6
APPLE	6/3.00	1/3.00	49.5	9	171	14.9
BANANA	6/3.75	1/3.75	77.3	11.3	268	22.7
CHERRY	6/4.75	7/1.60	120.4	14.3	402	33.4
GRAPE	30/2.50	7/2.50	182	17.5	677	63.5
LEMON	30/3.00	7/3.00	262	21	973	90.4
LYCHEE	30/3.25	7/3.25	307	22.8	1140	105
LIME	30/3.50	7/3.50	356	24.5	1320	122
MANGO	54/3.00	7/3.00	431	27	1440	119
ORANGE	54/3.25	7/3.25	506	29.3	1690	137
OLIVE	54/3.50	7/3.50	587	31.5	1960	159