

## PVC - COVERED ALUMINIUM CONDUCTORS

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The PVC - covered conductors have been developed primarily to give protection to telecommunication lines which are crossed by power lines and to give protection to the public from low voltage lines in case of accidental contact for short periods.

The PVC - covered power lines have also been found useful in corrosive atmospheres and for preventing faults due to birds and trees. For such purposes, thickness of covering other than those specified in this catalogue may be used. The conductors are sometimes referred to as "Weather - Resistant Line Wire" and may consist of a single solid wire, or all aluminium stranded conductors (AAC) over which a covering has been applied.

The insulation thickness of Type 8 is intended for use where the operating voltages does not exceed 650 V r.m.s. between any two conductors or 250 V r.m.s. between any conductor and earth.

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(BS 215, Part 1 and BS 6485)

Nominal aluminium wire	Construction, No./Wire diameter	Approx. overall diameter of bare conductor	Calculated DC resistance at 20°C	Approx. breaking load	Approx. overall diameter of covered conductor	Approx. mass of covered conductor
					Type 8	Type 8
mm <sup>2</sup>	No./mm	mm	Ohm/Km	kN	mm	Kg/Km
22	7 / 2.06	6.18	1.227	3.99	8.2	100
50	7 / 3.10	9.30	0.5419	8.28	11.7	220
60	7 / 3.40	10.20	0.4504	9.90	13.0	270
100	7 / 4.39	13.17	0.2702	16.00	16.0	420
150	19 / 3.25	16.25	0.1825	25.70	19.7	610
200	19 / 3.78	18.90	0.1349	32.40	21.7	760