



aerial bunched cable

Aerial bunched cables are electrical cables that are designed to be suspended in the air, typically from utility poles or other overhead structures. They are used to transmit electrical power and other signals over long distances. Aerial bunched cables are made up of multiple individual wires that are bundled together, and they are protected by a protective outer layer, such as a sheath or jacket. Xtra-cab is a company that specializes in the production of aerial bunched cables. The company offers a wide range of aerial bunched cables for different applications and environments, including low voltage, medium voltage, and high voltage cables. Xtra-cab's aerial bunched cables are known for their high quality and performance, and are used in a variety of industries, including telecommunications, utilities, and renewable energy



**Cross Sectional View Of
Aerial Bunched Cable**

Description and Type of Cable	Number of Wires		Thickness of XIPE Insulation		Approx Overall Diameter	Approx Weight of Cable	Breaking Load of Messenger	Maximum D.C Resistance ohms/km		AC Current Rating Amps
	Phase	Messenger	Phase mm	Messenger mm	mm	kg/km	KN min	Phase	Messenger	In Air At 40 C
With Insulated Messenger Conductor										
1c x 16mm ² +25mm ² (insulated)	7	7	1.20	1.20	20.0	165	7	1.910	1.380	72
3c x 16mm ² +25mm ² (insulated)	7	7	1.20	1.20	22.0	301	7	1.910	1.380	64
1c x 25mm ² +25mm ² (insulated)	7	7	1.20	1.20	22.4	195	7	1.200	1.380	99
3c x 25mm ² +25mm ² (insulated)	7	7	1.20	1.20	25.0	390	7	1.200	1.380	84
1c x 35mm ² +25mm ² (insulated)	7	7	1.20	1.20	27.3	227	7	0.868	1.380	120
3c x 35mm ² +25mm ² (insulated)	7	7	1.20	1.20	27.4	486	7	0.868	1.380	105
1c x 35mm ² +35mm ² (insulated)	7	7	1.20	1.20	28.0	259	10.1	0.868	0.986	120
With Bare Messenger Conductor										
1c x 16mm ² +25mm ² (insulated)	7	7	1.20	N.A+	18.5	137	7	1.910	1.380	72
3c x 16mm ² +25mm ² (insulated)	7	7	1.20	do	19.3	272	7	1.910	1.380	64
1c x 25mm ² +25mm ² (insulated)	7	7	1.20	do	19.5	167	7	1.200	1.380	99
3c x 25mm ² +25mm ² (insulated)	7	7	1.20	do	20.5	362	7	1.200	1.380	84
1c x 35mm ² +25mm ² (insulated)	7	7	1.20	do	22.0	199	7	0.868	1.380	120
3c x 35mm ² +25mm ² (insulated)	7	7	1.20	do	23.5	458	7	0.868	1.380	105
1c x 35mm ² +35mm ² (insulated)	7	7	1.20	do	24.6	226	10.1	0.868	0.986	120



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	Phase	Messenger	Phase mm	Messenger mm	mm	kg/km	KN min	Phase	Messenger	In Air At 40 C
With Insulated Messenger Conductor										
1c x 16mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	1.20	23.5	369	7	1.910	1.380	62
3c x 16mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	1.20	25.0	457	7	1.200	1.380	82
1c x 25mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	1.20	27.5	554	7	0.868	1.380	103
3c x 25mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	1.20	28.4	586	10.1	0.868	0.986	103
1c x 35mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	1.20	32.5	760	10.1	0.641	0.986	127
3c x 35mm ² +25mm ² (insulated) +16mm ²	7	7	1.50	1.50	37.5	1007	14	0.434	0.689	154
1c x 35mm ² +35mm ² (insulated) +16mm ²	7	7	1.50	1.50	39.5	1070	19.7	0.434	0.492	154
With Bare Messenger Conductor										
1c x 16mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	N.A+	19.5	340	7	1.910	1.380	62
3c x 16mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	do	20.5	429	7	1.200	1.380	84
1c x 25mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	do	23.5	526	7	0.868	1.380	103
3c x 25mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	do	25.0	553	10.1	0.868	0.986	103
1c x 35mm ² +25mm ² (insulated) +16mm ²	7	7	1.20	do	26.8	727	10.1	0.641	0.986	127
3c x 35mm ² +25mm ² (insulated) +16mm ²	7	7	1.50	do	31.5	958	14	0.434	0.689	154
1c x 35mm ² +35mm ² (insulated) +16mm ²	7	7	1.50	do	34.5	1013	19.7	0.434	0.492	154

Features & Advantages

The phase conductor can be of single phase or three phases. A lighting conductor can be also incorporated for street lighting. A messenger conductor supports the weight of the cable and keeps the assembly strung under tension. Phase conductors are made of concentrically stranded Aluminium Wires having 7 or 19 wires. Messenger conductors are made of a specially treated Silica, Magnesium and Aluminium Alloy having 7 or 19 wires. Phase and lighting conductors may be insulated with XLPE compound of Sioplas Technology. Messenger conductors are kept either bare or insulated. Phase and lighting conductors are sometimes twisted around the messenger conductor. In special cases a neutral conductor may also be provided separately. Generally, the messenger acts as earth and neutral

Cables are lighter in weight Easy to install

Can be installed on poles, on walls etc.

Easy to make terminations and branch off joints on live wire as well

Protection against power theft