



Aerial Bunched Cables

We are one of the promising Aerial Cables. The Aerial Bunched Cables (ABC) that we deal in are required for electrical transmission system or a telecommunication line, which is suspended between utility poles or electricity pylons. Aerial Bunched Cables provide safety and reliability compared to other cables. We provide only the best and thus have created a reputation among the prominent Aerial Bunched Cables Suppliers in India.

1100 volt Grade Cables are mostly used for distributing power to individual consumers by utility service providers like electricity Boards, electricity distributing authorities. 10000 volts Grade Cables are also used, for the supply of farms, waterworks, transmitters and other facilities outside urban areas. A further common use is the replacement of overhead telecommunication lines, for example, along railway lines, by aerial cables as they can be installed on existing poles and make the facility more reliable.

Aerial Cable is more valuable for long term economy, safety and reliability overhead conductor. It is a better choice for power distribution in densely populated areas where laying the underground cable is either difficult or extremely expensive.

Advantage

- >> Easy Installation in urban, congested, or forest area.
- >> Saving in cost
- >> Human Safety in case of accidental contacts
- >> Water proof System
- >> Multiple circuits of Power and Telephone cables could be strung in the same set of poles.

Conductor

Phase of lighting conductor : Hard drawn Aluminium H2 or H4 grade as per IS : 8130.
Messenger Conductor : Aluminum Silica & Magnesium Alloy used as per IS:398

Insulation

Suraj Cables Technologies Aerial Bunched Cables are mainly available in XLPE applied by extrusion process.

Colour Insulation

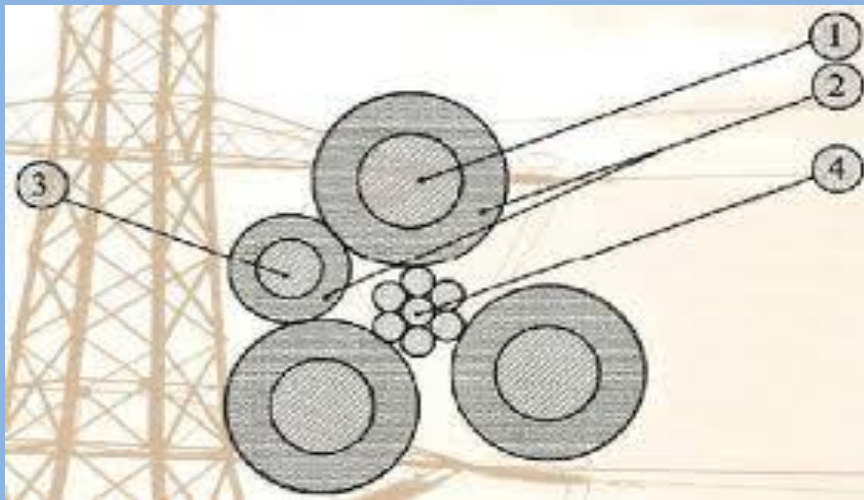
Suraj Cables Aerial Bunched Cables are mainly available in carbon black. Because the cable remains exposed to sunlight and environment.

FR Insulation

FR PVC insulation has better fire retardant properties than normal PVC. This FR PVC compound has a high oxygen and temperature index. The wires are wadded with a flame retardant (FR) PVC compound, which helps to control the spread of fire even at very high temperature. It also protects against electrical shock and short circuit.

Construction

- >> 3 Aluminium conductor, insulated with XLPE Insulation.
- >> 1 Aluminium conductor with XLPE Insulation (optional).
- >> One messenger Al-Alloy Conductor(Base or Insulated).



1100 Volt grade aluminium conductor & messenger conductor with aluminium alloy.

Description and type of Cable	No of wire		Thickness of XLPE Insulation		Approx overall Diameter	Approx weight of cable	Breaking Load of Messenger	Maximum D.C Resistance Ohma/km		Ac Current Rating Amps
	Phase	Messenger	Phase	Messenger				Phase	Messenger	
			mm	mm	mm	Kg/KM	KN(min)	Phase	Messenger	In Air at 40°C
With Insulated messenger Conductor										
1Cx16mm ² +25mm ²	7	7	1.20	1.20	20.0	165	7.0	1.910	1.380	72
3Cx16mm ² +25mm ²	7	7	1.20	1.20	22.0	301	7.0	1.910	1.380	64
1Cx16mm ² +25mm ²	7	7	1.20	1.20	22.4	195	7.0	1.200	1.380	98
3Cx16mm ² +25mm ²	7	7	1.20	1.20	25.0	390	7.0	0.868	1.380	84
1Cx16mm ² +25mm ²	7	7	1.20	1.20	27.3	227	7.0	0.868	1.380	120
3Cx16mm ² +25mm ²	7	7	1.20	1.20	27.4	486	7.0	0.868	1.380	105
1Cx16mm ² +25mm ²	7	7	1.20	1.20	28.0	259	10.1	0.868	0.986	120
3Cx16mm ² +25mm ²	7	7	1.20	1.20	28.4	518	10.1	0.868	0.986	105
1Cx16mm ² +25mm ²	7	7	1.50	1.50	29.0	317	10.1	0.641	0.986	150
3Cx16mm ² +25mm ²	7	7	1.50	1.50	32.3	692	10.1	0.641	0.986	130
3Cx16mm ² +25mm ²	7	7	1.50	1.50	37.5	939	14.0	0.433	0.689	155
3Cx16mm ² +25mm ²	7	7	1.50	1.50	39.0	1002	19.7	0.433	0.492	155
3Cx16mm ² +25mm ²	19	7	1.50	1.50	42.7	1237	19.7	0.320	0.492	190
3Cx16mm ² +25mm ²	19	7	1.60	1.50	46.0	1482	19.7	0.253	0.492	220
3Cx16mm ² +25mm ²	19	7	1.80	1.50	50.0	1791	19.7	0.206	0.492	250

With Bare messenger Conductor										
3Cx16mm ² +25mm ²	7	7	1.20	N.A	18.5	137	7.0	1.910	1.380	72
3Cx16mm ² +25mm ²	7	7	1.20	N.A	19.3	272	7.0	1.910	1.380	64
1Cx25mm ² +25mm ²	7	7	1.20	N.A	19.5	167	7.0	1.200	1.380	99
3Cx25mm ² +25mm ²	7	7	1.20	N.A	20.5	362	7.0	1.200	1.380	84
1Cx35mm ² +25mm ²	7	7	1.20	N.A	22.0	199	7.0	0.868	1.380	120
3Cx35mm ² +25mm ²	7	7	1.20	N.A	23.5	458	7.0	0.868	1.380	105
1Cx35mm ² +35mm ²	7	7	1.20	N.A	24.6	226	10.1	0.868	0.986	120
3Cx35mm ² +35mm ²	7	7	1.20	N.A	25.0	485	10.1	0.868	0.986	105
1Cx50mm ² +35mm ²	7	7	1.50	N.A	26.6	284	10.1	0.641	0.986	150
3Cx50mm ² +35mm ²	7	7	1.50	N.A	26.8	659	10.1	0.641	0.986	130
3Cx70mm ² +50mm ²	7	7	1.50	N.A	31.2	890	14.0	0.443	0.689	155
3Cx70mm ² +70mm ²	7	7	1.50	N.A	34.4	946	19.7	0.443	0.492	155
3Cx95mm ² +70mm ²	19	7	1.50	N.A	36.0	1179	19.7	0.320	0.492	190
3Cx120mm ² +70mm ²	19	7	1.60	N.A	38.0	1425	19.7	0.253	0.492	220
3Cx150mm ² +70mm ²	19	7	1.80	N.A	40.0	1735	19.7	0.206	0.492	250

Manufacturing / Process Flow Along with Tests as Per IS:14255:1995

