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AERIAL BUNCHED CABLE



An ISO- 9001- 2000 Accredited Company



Aerial Bunched Cables

Aerial Bunched Cables, 1100 volt Grade, are used for distributing power to individual consumers by utility service providers like electricity Boards, electricity distributing authorities. The cable is kept supported on poles. The line is tapped intermittently from any required position which enables to be used in urban as well as rural areas alike.

Configuration : Multi-core/Multi-pair.

Conductor

Phase or lighting conductor: Hard drawn Aluminium H2 or H4 grade as per IS:8130. Messenger conductor : Aluminium Silica and Magnesium Alloy used after treatment as per IS: 398 (part 4).

Insulation

XLPE applied by extrusion process.

Identification of Phase & Messenger

By providing ridges on the insulation of phase conductors. One ridge for 1st phase, 2 and 3 ridges for 2nd and 3rd phases respectively. Neutral can have 4 ridges. If messenger is insulated the same will not have any identification mark.

Color of Insulation

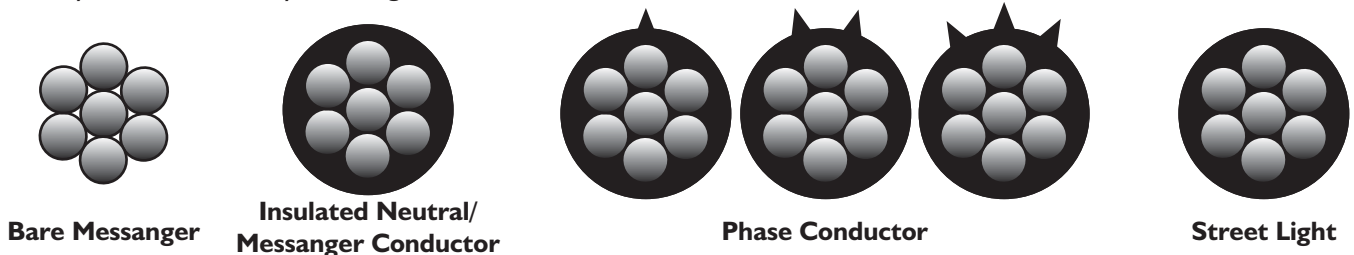
Because the cable remains exposed to environment & sunlight (ultraviolet radiation) the insulation is mixed with a small amount of carbon black to stop deterioration of polythene due to UV radiation.

Assembling

The phase conductor along with the lighting conductor (where applicable) is twisted around messenger conductor.

Construction

The phase conductor can be of single phase and also of three phases. A lighting conductor can be also incorporated to give supply to the street lighting. Messenger conductor supports the weight of the cable and keeps the assembly strung under tension. The phase conductor is made of concentrically stranded Aluminium Wires having 7 or 19 wires. The messenger conductor is made of specially treated Silica, Magnesium Aluminium alloy having 7 wires. The phase conductor and lighting conductor where applicable are insulated with XLPE (made of Sioplas Technology) compound. The messenger conductor, as per customer's choice is kept either bare or insulated. The phase conductor along with lighting conductor (where applicable) are twisted around the messenger conductor (insulated or bare) and left as such. Sometimes as a special case a neutral conductor is also provided separately, if desired, by the user. Generally, messenger acts as earth as well as neutral.



1100 volt grade Stranded & compacted Aluminium Phase Conductor, and Stranded Messenger Conductor with all aluminium Alloy, Phase Conductor is insulated with XLPE Compound, Messenger is either insulated or bare.
Referred specification IS : 14255- 1995 up to the latest amendment.

Description and type of Cable	No. of Wire		Thickness of XLPE Insulation		Approx overall Diameter	Approx Weight of Cable	Breaking load of Messenger	Max D.C Resistance @ 20°C Ohms/KM		AC current Rating Amps
	Phase	Messenger	Phase	Messenger				Phase	Messenger	
With insulated messenger conductor			mm	mm	mm	kg/KM	(KN/min)	Phase	Messenger	In air at 40°C
1Cx16mm ² +25mm ² (insulated)	7	7	1.20	1.20	20.0	165	7.0	1.910	1.380	72
3Cx16mm ² +25mm ² (insulated)	7	7	1.20	1.20	22.0	301	7.0	1.910	1.380	64
1Cx25mm ² +25mm ² (insulated)	7	7	1.20	1.20	24.0	195	7.0	1.200	1.380	99
3Cx25mm ² +25mm ² (insulated)	7	7	1.20	1.20	25.0	390	7.0	0.868	1.380	84
1Cx35mm ² +25mm ² (insulated)	7	7	1.20	1.20	27.3	227	7.0	0.868	1.380	120
3Cx35mm ² +25mm ² (insulated)	7	7	1.20	1.20	27.4	486	7.0	0.868	1.380	105
1Cx35mm ² +35mm ² (insulated)	7	7	1.20	1.20	28.0	259	9.8	0.868	0.986	120
3Cx35mm ² +35mm ² (insulated)	7	7	1.20	1.20	28.4	518	9.8	0.868	0.986	105
1Cx50mm ² +35mm ² (insulated)	7	7	1.50	1.50	29.0	317	9.8	0.641	0.986	150
3Cx50mm ² +35mm ² (insulated)	7	7	1.50	1.50	32.3	692	9.8	0.641	0.986	130
3Cx70mm ² +50mm ² (insulated)	7	7	1.50	1.50	37.5	939	14.0	0.443	0.689	155
3Cx70mm ² +70mm ² (insulated)	7	7	1.50	1.50	39.0	1002	19.7	0.443	0.492	155
3Cx95mm ² +70mm ² (insulated)	19	7	1.50	1.50	42.7	1237	19.7	0.32	0.492	190
3Cx120mm ² +70mm ² (insulated)	19	7	1.60	1.50	46.0	1482	19.7	0.253	0.492	220
3Cx150mm ² +70mm ² (insulated)	19	7	1.80	1.50	50.0	1791	19.7	0.206	0.492	250

I 100 volt grade Stranded & compacted Aluminium Phase Conductor, and Stranded Messenger Conductor with all aluminium Alloy, Phase Conductor is insulated with XLPE Compound, Messenger of bare conductor with lighting Conductor of 16 mm . Referred specification IS : 14255- 1995 up to the latest amendment.

Description and type of Cable	No. of Wire		Thickness of XLPE Insulation		Approx overall Diameter	Approx Weight of Cable	Breaking load of Messenger	Max D.C Resistance @ 20°C Ohms/KM		AC current Rating Amps
	Phase	Messenger	Phase	Messenger				Phase	Messenger	
With bare messenger conductor			mm	mm	mm	kg/KM	(KN/min)			In air at40°C
1Cx16mm ² +25mm	7	7	1.20	NA	18.5	137	7.0	1.910	1.380	72
3Cx16mm ² +25mm ²	7	7	1.20	NA	19.3	272	7.0	1.910	1.380	64
1Cx25mm ² +25mm ²	7	7	1.20	NA	19.5	167	7.0	1.200	1.380	99
3Cx25mm ² +25mm ²	7	7	1.20	NA	20.5	362	7.0	1.200	1.380	84
1Cx35mm ² +25mm ²	7	7	1.20	NA	22.0	199	7.0	0.868	1.380	120
3Cx35mm ² +25mm ²	7	7	1.20	NA	23.5	458	7.0	0.868	1.380	105
1Cx35mm ² +35mm ²	7	7	1.20	NA	24.6	226	9.8	0.868	0.986	120
3Cx35mm ² +35mm ²	7	7	1.20	NA	25.0	485	9.8	0.868	0.986	105
1Cx50mm ² +35mm ²	7	7	1.50	NA	26.6	284	9.8	0.641	0.986	150
3Cx50mm ² +35mm ²	7	7	1.50	NA	26.8	659	9.8	0.641	0.986	130
3Cx70mm ² +50mm ²	7	7	1.50	NA	31.2	890	14.0	0.443	0.689	155
3Cx70mm ² +70mm ²	7	7	1.50	NA	34.4	946	19.7	0.443	0.492	155
3Cx95mm ² +70mm ²	19	7	1.50	NA	36.0	1179	19.7	0.32	0.492	190
3Cx120mm ² +70mm ²	19	7	1.60	NA	38.0	1425	19.7	0.253	0.492	220
3Cx150mm ² +70mm ²	19	7	1.80	NA	40.0	1735	19.7	0.206	0.492	250

I 100 volt grade Stranded & compacted Aluminium Phase Conductor, and Stranded Messenger Conductor with all aluminium Alloy, Phase Conductor is insulated with XLPE Compound, Messenger is either insulated or bare with lighting Conductor of 16 mm . Referred specification IS : 14255- 1995 up to the latest amendment.

Description and type of Cable	No. of Wire		Thickness of XLPE Insulation		Approx overall Diameter	Approx Weight of Cable	Breaking load of Messenger	Max D.C Resistance @ 20°C Ohms/KM		AC current Rating Amps
	Phase	Messenger	Phase	Messenger				Phase	Messenger	
With insulated messenger conductor			mm	mm	mm	kg/KM	(KN/min)			In air at40°C
3Cx16mm ² +25mm ² (insulated)+16mm ²	7	7	1.20	1.20	23.5	369	7.0	1.910	1.380	62
3Cx25mm ² +25mm ² (insulated)+16mm ²	7	7	1.20	1.20	25.0	457	7.0	1.200	1.380	82
1Cx25mm ² +25mm ² (insulated)+16mm ²	7	7	1.20	1.20	27.5	554	7.0	0.868	1.380	103
3Cx25mm ² +25mm ² (insulated)+16mm ²	7	7	1.20	1.20	28.4	586	7.0	0.641	0.986	103
1Cx35mm ² +25mm ² (insulated)+16mm ²	7	7	1.50	1.20	32.5	760	7.0	0.641	0.986	127
3Cx35mm ² +25mm ² (insulated)+16mm ²	7	7	1.50	1.50	37.5	1007	7.0	0.443	0.689	154
1Cx35mm ² +35mm ² (insulated)+16mm ²	7	7	1.50	1.50	39.5	1070	9.8	0.443	0.492	1.54
3Cx35mm ² +35mm ² (insulated)+16mm ²	19	7	1.50	1.50	42.5	304	9.8	0.320	0.492	188
1Cx50mm ² +35mm ² (insulated)+16mm ²	19	7	1.60	1.50	46.8	1550	9.8	0.253	0.492	218
3Cx50mm ² +35mm ² (insulated)+16mm ²	19	7	1.80	1.50	50.8	1860	9.8	0.206	0.492	248
With bare messenger conductor										
3Cx16mm ² +25mm ² (insulated)+16mm ²	7	7	1.20	NA	19.5	340	7.0	1.910	1.380	62
3Cx25mm ² +25mm ² (insulated)+16mm ²	7	7	1.20	NA	20.5	429	7.0	1.200	1.380	82
1Cx25mm ² +25mm ² (insulated)+16mm ²	7	7	1.20	NA	23.5	526	7.0	0.868	1.380	103
3Cx25mm ² +25mm ² (insulated)+16mm ²	7	7	1.20	NA	25.0	553	7.0	0.868	0.986	103
1Cx35mm ² +25mm ² (insulated)+16mm ²	7	7	1.50	NA	26.8	727	7.0	0.641	0.986	127
3Cx35mm ² +25mm ² (insulated)+16mm ²	7	7	1.50	NA	31.5	958	7.0	0.443	0.689	154
1Cx35mm ² +35mm ² (insulated)+16mm ²	7	7	1.50	NA	34.5	1013	9.8	0.443	0.492	154
3Cx35mm ² +35mm ² (insulated)+16mm ²	19	7	1.50	NA	37.0	1248	9.8	0.320	0.492	188
1Cx50mm ² +35mm ² (insulated)+16mm ²	19	7	1.60	NA	39.0	1493	9.8	0.253	0.492	218
3Cx50mm ² +35mm ² (insulated)+16mm ²	19	7	1.80	NA	40.0	1903	9.8	0.206	0.492	248



Dealer

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