

Tender NO. PGVCL/RJT/PROC/IPDS-DDUGJY/1C LT AB Cable/772

LT Aerial Bunched Cables

(APPLICABLE FOR LT AB CABLE WITH XLPE INSULATION ONLY)

1. SCOPE:

This specification covers XLPE insulated Aluminum cable twisted over a central bare Aluminum Alloy messenger wire for use of L.T. Over-Headlines in Rural Electrification System. The Aerial Bunched cable and messenger wire should be confirming to IS.

(Sizes: of the cable)

- 1.01 1X16 (Ph) + 1X25 (bare messenger cum neutral) SQ. MM.
- 1.02 1X16 (Ph) + 1X25 (bare messenger cum neutral) + 1x16 (insulated Street lighting)SQ. MM.
- 1.03 3X16(Ph)+1X25 (bare messenger cum neutral) SQ. MM.
- 1.04 3 X 16(Ph) +1x25 (bare messenger cum neutral) + 1x16 (insulated Street lighting) SQ. MM.
- 1.05 1X25(Ph)+1x25 (bare messenger cum neutral) SQ. MM.
- 1.06 1X25(Ph) + 1X25 (bare messenger cum neutral) + 1x16 (insulated Street lighting) SQ. MM.
- 1.07 3X25(Ph)+1X25 (bare messenger cum neutral) SQ. MM.
- 1.08 3 X 25(Ph) +1x25 (bare messenger cum neutral) + 1x16 (insulated Street lighting) SQ. MM.
- 1.09 1X35(Ph)+1X25 (bare messenger cum neutral) SQ. MM.
- 1.10 1x35(Ph) + 1X25 (bare messenger cum neutral) + 1x16 (insulated Street lighting) SQ. MM.
- 1.11 3X35(Ph)+1X25 (bare messenger cum neutral) SQ. MM.
- 1.12 3X35 (Ph) + 1x25 (bare messenger cum neutral)+ 1x16 (insulated Street lighting) SQ. MM.
- 1.13 3X50(Ph)+1X35 (bare messenger cum neutral) SQ. MM.
- 1.14 3X50 (Ph)+1x35 (bare messenger cum neutral) +1x16 (insulated Street lighting) SQ. MM.
- 1.15 3X95(Ph)+1X70 (bare messenger cum neutral) SQ. MM.
- 1.16 3X95(Ph)+1X70 (bare messenger cum neutral) SQ. MM.+1x16 (insulated Street lighting)SQ. MM.

2. RATED VOLTAGE:

The rated voltage of the AB cables shall be 1100 volts

3. APPLICABLE STANDARDS:

Unless otherwise stipulated in this specification the following Standards shall be applicable.

- i) IS – 14255/1995 : ABC cables 1100 volts.
- ii) IS – 8130/1984 : Conductors for insulated cables.
- iii) IS – 398/Pt.IV/1994: Aluminium alloy conductor.
- iv) IS – 10418/1982 : Drums for electric cables

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4. GENERAL:

The AB cable covered under this specification should be suitable for use on three phase, 4 wire earthed system for working voltage up to 1100 V. It should confirm the relevant standards stated above and others if applicable.

The phase conductor shall be 95 mm², 50 mm², 35 mm², 25 mm² and 16 mm² XLPE insulated and the messenger-cum-neutral conductor of sizes 70 mm², 35 mm² and 25 mm² shall be bare heat treated aluminium-magnesium-silicon alloy wires containing 0.5% magnesium and approximately 0.5% silicon conforming to IS: 398 (Part-IV):1979 and its latest amendment, if any.

5. PHASE CONDUCTORS:

5.1 The phase & street lighting conductor shall be provided cross linked poly ethylene insulation applied by extrusion. The thickness of insulation shall not be less than 1.2 mm up to 35mm² and shall not be less than 1.5 mm for above 35mm² at any point and insulation shall be so applied that it fits closely on the conductor and it shall be possible to remove it without damaging the conductor. The insulated conductors shall generally conform to the standards IS-14255:1995.

5.2 The phase conductors shall be provided with one, two & three 'ridges' for easy identification.

5.3 The tensile strength of the aluminum wire used in the conductor shall not be less 90 N/mn².

5.4 The standard size and technical characteristics of the phase conductors shall be as shown in the Table-1.

TABLE-I

Nominal Sectional area in mm ²	No. of Strands	Diameter of Compacted conductor in mm	Approx. Mass Kg/KMs.	Max. DC Résistance at 20°C (Ohm/km)	Insulation Thickness in mm
1	2	3	4	5	6
16	7	4.4	42	1.91	1.2
25	7	5.6	65	1.20	1.2
35	7	6.7	95	0.868	1.2
50	7	8.0	127	0.641	1.5
95	19	11.0	266	0.320	1.5

NOTE: 1) The resistance values given in col.5 are the max. permissible.

Tolerance of + 5% is allowable on dimension.

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6. MESSENGER-CUM-NEUTRAL WIRE:

- 6.1 The bare messenger wire shall be of aluminium alloy generally conforming to IS-398/Pt.IV/94 composed of 7 strands and shall be suitable compacted or stranded to have smooth round surface to avoid damages to the overall insulation of phase & neutral conductor twisted around the messenger.
- 6.2 There shall be no joint in any wire of the stranded messenger Conductor except these made in the base rod or wires before final drawing.
- 6.3 The sizes and other technical characteristics of the messenger wire shall be as given in the Table No.2.

TABLE -2

Nominal Sectional Area in mm ²	No. of strands	Diameter of Compacted conductor in mm	Diameter of Stranded conductor in mm	Approx. Mass Kgs/KMs	Max .DC Resistance
1	2	3	4	5	6
25	7	5.6	6.42	65	1.380
35	7	6.7	7.56	95	0.986
70	7	9.4	10.65	196	0.492

NOTE: while limiting values in col. 3 is to be guaranteed a tolerance of + 5% will be permissible.

7. XLPE INSULATION:

The insulation shall generally conform to IS-14255

Sr.No.	Property	Requirement
1	Tensile Strength	12.5 N / mm ² Min
2	Elongation at break	200 % Min.
3	Ageing in air over	
a	Treatment: Temperature & duration	135 ± 3°C & 7 days
b	Tensile strength variation	± 25% Max.
c	Elongation variation	± 25% Max.
4	Hot Set	
a	Treatment temperature, Time Under load, mechanical stresses	200 ± 3°C, 15 minutes 20 N /cm ² .
b	Elongation under load	175 % max.

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Sr.No.	Property	Requirement
c	Permanent elongation (set) after cooling	15 % Max
5	Shrinkage	
a	Treatment temperature duration	130 ± 3°C
		For 1 hour
b	Shrinkage	4% Max
6	Water absorption (Gravimetric)	
a	Treatment- Temp.	85 ± 2°C
	Duration	14 days
b	Water absorbed	1 mg. / cm ² max.

8. TYPE TEST:

A. Test for Phase/Street Light Conductors

- (i) Tensile Test (IS-8130)
- (ii) Wrapping Test (IS-8130)
- (iii) Conductor Resistance Test (IS-8130)

B. Test for Messenger:

- (i) Breaking load test (to be made on finished conductor) -(IS-398/ Pt.IV/ 1994 with latest revision)
- (ii) Elongation test (IS - 398 / Pt.IV/1994)
- (iii) Resistance test (IS - 398 / Pt. IV /1994)
- (iv) If insulated , the test of insulation as per relevant IS will be applicable

C. Physical test for XLPE insulation

- (i) Tensile strength and Elongation at break
- (ii) Ageing in air oven
- (iii) Hot set test
- (iv) Shrinkage test
- (v) Water absorption (Gravimetric)
- (vi) Carbon black 1. Content & 2. Dispersion

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- D. Test for thickness of insulation
- E. Insulation Resistance (Volume Resistivity) Test
- F. High Voltage Test

Note: The Manufacturer should submit the entire above type test of Govt. of India's approved Laboratory along with their offer.

Optional Test:

Bending test on the completed cable:

Bending test shall be performed on a sample of complete cable. The sample shall be bent around a test mandrel at room temperature for at least one complete turn. It shall then be unwound and the process shall be repeated after turning the sample around its axis 180°. The cycle of this operation shall be then repeated twice.

The diameter of mandrel shall be $10(D+d)$.

Where

D = Actual diameter of cable (i.e. the min. circumscribing diameter in mm) d = Actual diameter of the phase conductor in mm

No cracks visible to the naked eye are allowed.

9. ACCEPTANCE TESTS:

Tests for Phase / Street Light Conductors:

- a. Tensile test (for Phase / Street light conductor)
- b. Wrapping test (for Phase / Street light conductor)
- c. Breaking load test for messenger conductor
- d. Elongation test for messenger conductor
- e. Conductor Resistance test
- f. Test for thickness of insulation
- g. Tensile strength and elongation at break test
- h. Hot set test (For XLPE insulation)
- i. Insulation Resistance test
- j. High voltage test

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10. PACKING MARKING:

10.1 The LT AB cable shall be wound in nonreturnable drums conforming to IS-10418/1982 "Specification for Reels and Drums for bare wire" of the latest version thereof. The drums shall be marked with the following:

- a) Manufacturers name
- b) Trade mark if any
- c) Drum number
- d) Size of Conductor
- e) Size of Messenger
- f) Voltage grade
- g) Number of lengths of pieces of Cable in each drum
- h) Gross mass of the packing
- i) Net mass of Cable
- j) ISI mark

10.2 The drums shall be of such a construction as to assure delivery of conductor in field free from displacement and damage and should be able to withstand all stresses due to handling and the stringing operation so that cable surface not dented, scratched or damaged in any way during transport and erection. The cable shall be properly lugged on the drums

10.3 The cable drums should be suitable for wheel mounting.

11. STANDARD LENGTH:

The standard length of drum will be 500 meter with $\pm 5\%$

Non-standard Length:

Nonstandard length not less than 50% of the standard length shall be accepted to the extent of 10% of the ordered quantity.

12. INSPECTION:

All tests and inspections shall be made at the place of manufacturer unless otherwise especially agreed upon by the manufacturer and purchaser at the time of purchase. The manufacturer shall afford the inspector representing the purchaser all reasonable facilities, without charge, to satisfy him that the material is being furnished in accordance with this specification.

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13. EXPERIENCE:

The manufacturer must have some experience of manufacturer and supply of this cable to any Electricity Board. Copy of order executed and performance report may be submitted along with the offer.

14. TYPE TEST CERTIFICATES:

The duly attested copy of Type Test Certificate of the offered sizes of AB cable, as per IS: 14255/1995 with latest amendment/revision be submitted from any Govt. laboratory or from a NABL accredited laboratory along with the offer. Type Test Certificate shall not be more than Five Years Old from Date of supply.

However, if the same are not available at the time of bidding, the same may be submitted after order but before commencement of supply.

In case, the bidder is not able to submit the Type Test Certificate from any Govt. laboratory or from a NABL accredited laboratory for any size of cable, the same shall be conducted by the bidder free of cost without any additional financial liability on utility. For this purpose, Type test Report of a phase wire or messenger wire once tested shall be accepted for all other combination. For example, if 1x16 + 25 sq mm and 3x35 + 25 sq mm already tested then this will be valid for 3x16+25 sq mm (as phase wire of 16 sq mm and messenger wire of 25 sq mm are already tested) and for 3x35 + 25 sq mm + 16 sq mm (as phase wire of 35 & 16 sq mm and messenger wire of 25 sq mm are already tested).

15. SUBMISSION OF ISI LICENSE FOR IS14255:1995

The Manufacturer are required to submit duly attested photo copy of the valid ISI License up to the date of delivery for supply of these AB cables/wires and they should also submit GTP failing which, the offer would be ignored.

16. IMPORTANT:

In absence of valid ISI License/GTP duly filled in/and copy of type test certificate of Govt. approved Laboratory, duly attested by authorized person, offer will be liable to be ignored without any further correspondence.

17. ISI MARKING:

The material supplied shall be conforming to Indian Standard Specification and also with ISI marking as applicable and even after inspection of the lot, if the materials received at site is found without ISI marking, the lot shall be rejected and no further correspondence shall be entertained in this regard.

Exact details of marking/embossing, color of outer sheath etc. will be as per the detailed purchase order.

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GUARANTEED TECHNICAL PARTICULARS (G.T.P.)

Technical information and Guaranteed Technical Particulars (G.T.P.) for LT Aerial Bunched Cable (XLPE insulated only) of sizes:

- 1.01 1X16 (Ph) + 1X25 (bare messenger cum neutral) SQ. MM.
- 1.02 1X16 (Ph) + 1X25 (bare messenger cum neutral) + 1x16 (insulated Street lighting)SQ. MM.
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PART – A

Manufacturer has to confirm following important requirements:

Sr. No.	Particulars	confirmation
1	AB Cable shall be manufactured and supplied Confirming to IS: 14255/1995 with latest Amendment if any	Yes
2	Cable drums/label shall bear ISI Mark	Yes
3	ISI License shall remain valid till order is Completed	Yes
4	Colour of XLPE Insulation – Black	
4a	1X16 + 1X25 SQ. MM.	Yes
4b	1X16 + 1X25 + 1x16 SQ. MM.	Yes
4c	3X16+1X25 SQ. MM.	Yes
4d	3 X 16 +1x25 + 1x16 SQ. MM.	Yes
4e	1X25+1x25 SQ. MM.	Yes

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4f	1X25 + 1X25 + 1x16 SQ. MM.	Yes
4g	3X25+1X25 SQ. MM.	Yes
4h	3 X 25 +1x25 + 1x16 SQ. MM.	Yes
4i	1X35+1X25 SQ. MM.	Yes
4j	1x35 + 1X25 + 1x16 SQ. MM.	Yes
4k	3X35+1X25 SQ. MM.	Yes
4l	3X35 + 1x25 + 1x16 SQ. MM.	Yes
4m	3X50+1X35 SQ. MM.	Yes
4n	3X50 +1x35 +1x16 SQ. MM.	Yes
4o	3X95+1X70 SQ. MM.	Yes
4p	3X95+1X70 +1x16 SQ. MM.	Yes
5	Shape – compacted	Yes
6	Standard length in case 500 mtrs+ 5 % tolerance longer length acceptable	Yes
7	Non-Standard length 50% of Std. length up to 10%of ordered quantity	Yes
8	Packing shall contain only one Length.	Yes
9	Packing material: Wooden drums as per IS: 10418/1982 duly painted	Yes
9a	1X16 + 1X25 SQ. MM.	Yes
9b	1X16 + 1X25 + 1x16 SQ. MM.	Yes
9c	3X16+1X25 SQ. MM.	Yes
9d	3 X 16 +1x25 + 1x16 SQ. MM.	Yes
9e	1X25+1x25 SQ. MM.	Yes
9f	1X25 + 1X25 + 1x16 SQ. MM.	Yes
9g	3X25+1X25 SQ. MM.	Yes
9h	3 X 25 +1x25 + 1x16 SQ. MM.	Yes
9i	1X35+1X25 SQ. MM.	Yes
9j	1x35 + 1X25 + 1x16 SQ. MM.	Yes
9k	3X35+1X25 SQ. MM.	Yes
9l	3X35 + 1x25 + 1x16 SQ. MM.	Yes
9m	3X50+1X35 SQ. MM.	Yes
9n	3X50 +1x35 +1x16 SQ. MM.	Yes
9o	3X95+1X70 SQ. MM.	Yes
9p	3X95+1X70 +1x16 SQ. MM.	Yes
10	Following shall be embossed on cable & Marking on drum shall be as per IS: 14255/1995	Yes
10a	Purchaser (Employee)	Yes
10b	1100 Volts	Yes

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10c	IS:14255/1995	Yes
10d	Year of manufacture	Yes
10e	Trade Mark	Yes
11	Conductor –	
11a	For Phase 16 mm ² ,25 mm ² , 35 mm ² , 50 mm ² & 95 mm ² Aluminium as per IS 8130/1984	Yes
11a	For Phase 16 mm ² ,25 mm ² , 35 mm ² , 50 mm ² & 95 mm ² Aluminium as per IS 8130/1984	Yes
11b	For Messenger wire 25 mm ² , 35 mm ² & 70 mm ² Aluminium Alloy as per IS 398/Pt.IV/1994	Yes
12	Maximum Conductor resistance at 20°C For Phase Conductor	
12a	16 mm ² Conductor – 1.91 Ohm/KM	Yes
12b	25 mm ² Conductor – 1.20 Ohm/KM	Yes
12c	35 mm ² Conductor – 0.868 Ohm/KM	Yes
12d	50 mm ² Conductor – 0.641 Ohm/KM	Yes
12e	95 mm ² Conductor – 0.320 Ohm/KM	Yes
	For messenger conductor	
12e	25 mm ² Conductor – 1.380 Ohm/KM	Yes
12f	35 mm ² Conductor – 0.986 Ohm/KM	Yes
12g	70 mm ² Conductor – 0.492 Ohm/KM	Yes
13	Minimum average XLPE Insulation thickness for AB Cable	
13a	16 mm ² - 1.2 mm	Yes
13b	25 mm ² - 1.2 mm	Yes
13c	35 mm ² - 1.2 mm	Yes
13d	50 mm ² - 1.5 mm	Yes
13f	95 mm ² - 1.5 mm	Yes
14	Volume resistivity of insulation	
14a	At 27°C – 1 x 10 ¹³ Ohm-cm. Min	Yes
14b	At 70°C – 1 x 10 ¹¹ Ohm-cm. Min	Yes
15	Tensile strength of Insulation & sheath -12.5 N/mm ² Min.	Yes
16	Elongation at break of Insulation and Sheath –200% Min.	Yes
17	Overall tolerance in supply of ordered total quantity shall be ± 2 % (Plus and minus two %)	Yes

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PART- B

Manufacturer has to furnish below details about material for information:

Sr. No.	Particulars	confirmation																																																																																					
1	ISI License for IS:14255/1995	Yes																																																																																					
1a	Number																																																																																						
1b	Date of expiry																																																																																						
2	Approximate weight of 1000 meters length (Weight in Kgs.)																																																																																						
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3	Cable Conductor, Circular Compacted?	Yes																																																																																					

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PART – C (ENCLOSURES)

Manufacturers have to enclose following documents and has to confirm for the same

Sr. No.	Particulars	confirmation
1	ISI License	Yes
2	Proof if applied for renewal of ISI License	Yes
3	TYPE TEST CERTIFICATE:Type test certificate from Govt. of India approvedLaboratory	Yes
	Size of AB Cable	
	a Name of Lab. & City Name	
	b T.R. No.	
	c Date	
4	List of plant and machinery	Yes
5	List of testing facility available	Yes
6	List of orders pending/executed	Yes
6a	with Employer	Yes
6b	with agencies other than Sr. no. 6(a)	Yes