

Application

NTP 370.254 LV CAAI-S cables are a type of low-voltage, selfsupporting aerial bundled cable designed for overhead power distribution networks. They are particularly used in urban and rural settings for reliable and efficient power transmission with below applications:

Used for low power distribution overhead networks.

Suitable for installation on poles or attached to walls.

Ideal for areas where insulators are not needed, reducing installation costs.

Performance

Voltage Rating: 0.6/1kV. Temperature Resistance: Normal operation: 90°C. Short-circuit conditions: 250°C (for up to 5 seconds). Emergency conditions: 130°C. Minimum service temperature: -10°C. Mechanical Strength: Minimum bending radius is 10 times the overall diameter of the phase conductor. Chemical and UV Resistance: Provides durability against environmental stressors.

Construction

Phase Conductor: Hard drawn aluminum conductor (Class 2). Neutral Messenger Conductor: Insulated galvanized steel conductor.

Lighting Conductor: Hard drawn aluminum conductor (Class 2). Insulation: Cross-linked polyethylene (XLPE).

Support: Steel supporting structures ensure mechanical strength and stability.

Specification

-NTP 370.254 standard -ICEA S-76-474 standard

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.



National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.



• Technical Parameters

| Phase conductor (Aluminum Conductor) | | | | | | | | |
|---------------------------------------|---------------------------|--------------|---------------------------|----------------------|-----------------|----------------|-------------------------|--|
| Nominal Cross Section Area | Construction of Conductor | | | XLPE Insulation | | | Max. D.C. | |
| | No. of Wires | Dia. of Wire | Approx. Conductor Dia. | Nominal Thickness | Insulation Dia. | Approx. Weight | at 20°C of Conductor | |
| mm ² | No. | mm | mm | mm | mm | kg/km | Ω/km | |
| 16 | 7 | 1.72 | 4.8 | 1.14 | 7.08 | 63.35 | 1.91 | |
| 25 | 7 | 2.18 | б | 1.14 | 8.28 | 91.75 | 1.2 | |
| 35 | 7 | 2.55 | 7 | 1.14 | 9.28 | 120.56 | 0.868 | |
| 50 | 7 | 2.97 | 8 | 1.52 | 11.04 | 168.55 | 0.641 | |
| 70 | 19 | 2.2 | 10 | 1.52 | 13.04 | 235.51 | 0.443 | |
| 95 | 19 | 2.58 | 11.6 | 1.52 | 14.64 | 310.92 | 0.32 | |
| | | | | | | | | |

| Neutral Conductor (Galvanized Steel Conductor) | | | | | | | | |
|--|---------------------------|--------------|------------------------|-------------------|-----------------|----------------|--|--|
| Nominal Cross Section Area | Construction of Conductor | | | XLPE Ins | Anney Mainht | | | |
| | No. of Wires | Dia. of Wire | Approx. Conductor Dia. | Nominal Thickness | Insulation Dia. | Approx. weight | | |
| mm ² | No. | mm | mm | mm | mm | kg/km | | |
| 3.18 | 7 | 1.04 ± 0.03 | 3.12 | 0.8 | 4.72 | 56.32 | | |
| 6.35 | 7 | 2.03± 0.03 | 6.09 | 0.8 | 7.69 | 195.35 | | |

| Street Lighting Conductor (Aluminum Conductor) | | | | | | | |
|--|---------------------------|--------------|---------------------------|----------------------|-----------------|----------------|---------------------------------------|
| Nominal Cross Section Area | Construction of Conductor | | | XLPE I | nsulation | | Max. D.C. |
| | No. of Wires | Dia. of Wire | Approx. Conductor Dia. | Nominal Thickness | Insulation Dia. | Approx. Weight | Resistance at 20°C of Conductor |
| mm ² | No. | mm | mm | mm | mm | kg/km | Ω/km |
| 16 | 7 | 1.72 | 4.8 | 1.14 | 7.08 | 63.35 | 1.91 |
| 25 | 7 | 2.18 | 6 | 1.14 | 8.28 | 91.75 | 1.2 |

| Completed Cable | | | | | | | | |
|--|----------------------|----------------|--|----------------------|----------------|--|--|--|
| No. of Cores × Nominal Cross Section Area | Approx. Overall Dia. | Approx. Weight | No. of Cores × Nominal Cross Section Area | Approx. Overall Dia. | Approx. Weight | | | |
| mm ² | mm | kg/km | mm ² | mm | kg/km | | | |
| 3x25+2x16+P3.18 | 21.9 | 455 | 2x16+P3.18 | 12.5 | 184 | | | |
| 3x35+2x16+P3.18 | 23.4 | 544 | 3x70+2x35+P3.18 | 31.2 | 1004 | | | |
| 3x50+2x25+P3.18 | 27.4 | 748 | 3x95+2x16+P6.35 | 29.6 | 1252 | | | |

