



## • Application

Pre-assembled cables for low voltage networks are designed for the efficient and reliable transmission of electricity in low voltage distribution systems with below applications:

Designed for use in low voltage electrical networks, which may include distribution networks, industrial facilities, commercial buildings, and residential areas.

Suitable for outdoor installation on overhead lines or underground distribution networks, where the cable is exposed to environmental elements such as moisture, sunlight, and temperature variations.

## • Performance

Electrical performance: 0.6/1kV

Chemical performance: chemical, UV&oil resistance

Terminal performance : maximum service temperature: 90°C; maximum short-circuit temperature: 250°C(max.5s); minimum service temperature: -40°C

## • Construction

Phase Conductor: Consists of Class 2, compacted or non-compacted aluminum wire stranded conductor, optimized for efficient power transmission.

Neutral/Messenger Conductor: The conductor can be one of the following types:

All Aluminum Conductor (AAC): Constructed from aluminum wire 1350 H19.

Aluminum Conductor Steel Reinforced (ACSR): Combines aluminum wire 1350 H19 with steel reinforcement for added strength and durability.

All Aluminum Alloy Conductor (AAAC): Utilizes aluminum alloy wire 6201 for enhanced conductivity and mechanical properties.

Insulation: Available in black polyethylene (PE) or crosslinked polyethylene (XLPE), providing excellent electrical insulation and protection against environmental factors.

## • Specification

-ABNT NBR 8182 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 Rheinland 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

| Cables with Neutral Aluminum - CA |                         |            |      |                        |      |               |             |                   |
|-----------------------------------|-------------------------|------------|------|------------------------|------|---------------|-------------|-------------------|
| Nominal Cross<br>Section Area     | Conductor<br>Phase Dia. | Insulation |      | Neutral Conductor - CA |      | Bursting Load | Wiring Dia. | Nominal<br>Weight |
|                                   |                         | Thickness  | Dia. | Wires × Dia.           | Dia. |               |             |                   |
| mm <sup>2</sup>                   | mm                      | mm         | mm   | mm                     | mm   | daN           | mm          | kg/km             |
| 1×1×10+10                         | 3,7                     | 1,2        | 6,1  | 7 × 1,36               | 4,2  | 195           | 10,6        | 71                |
| 1×1×16+16                         | 4,7                     | 1,2        | 7,1  | 7 × 1,70               | 5,2  | 300           | 12,7        | 106               |
| 1×1×25+25                         | 5,9                     | 1,4        | 8,7  | 7 × 2,06               | 6,3  | 446           | 15,5        | 160               |
| 1×1×35+35                         | 7,0                     | 1,6        | 10,2 | 7 × 2,50               | 7,7  | 614           | 17,9        | 270               |
| 1×1×50+50                         | 8,6                     | 1,6        | 11,3 | 7 × 3,00               | 9,2  | 836           | 20,5        | 348               |
| 1×1×70+70                         | 9,5                     | 1,8        | 13,1 | 7 × 3,45               | 10,6 | 1081          | 23,7        | 449               |
| 2×1×10+10                         | 3,7                     | 1,2        | 6,1  | 7 × 1,36               | 4,2  | 195           | 12,2        | 168               |
| 2×1×16+16                         | 4,7                     | 1,2        | 7,1  | 7 × 1,70               | 5,2  | 300           | 14,4        | 255               |
| 2×1×25+25                         | 5,9                     | 1,4        | 8,7  | 7 × 2,06               | 6,3  | 446           | 17,6        | 356               |
| 2×1×35+35                         | 7,0                     | 1,6        | 10,2 | 7 × 2,50               | 7,7  | 614           | 20,2        | 406               |
| 2×1×50+50                         | 8,6                     | 1,6        | 11,3 | 7 × 3,00               | 9,2  | 836           | 22,8        | 554               |
| 2×1×70+70                         | 9,5                     | 1,8        | 13,1 | 7 × 3,45               | 10,6 | 1081          | 26,4        | 713               |
| 3×1×10+10                         | 3,7                     | 1,2        | 6,1  | 7 × 1,36               | 4,2  | 195           | 14,0        | 157               |
| 3×1×16+16                         | 4,7                     | 1,2        | 7,1  | 7 × 1,70               | 5,2  | 300           | 16,4        | 230               |
| 3×1×25+25                         | 5,9                     | 1,4        | 8,7  | 7 × 2,06               | 6,3  | 446           | 20,1        | 350               |
| 3×1×35+35                         | 7,0                     | 1,6        | 10,2 | 7 × 2,50               | 7,7  | 614           | 23,7        | 487               |
| 3×1×50+50                         | 8,1                     | 1,6        | 11,3 | 7 × 3,00               | 9,2  | 836           | 26,7        | 640               |
| 3×1×70+70                         | 9,5                     | 1,8        | 13,1 | 7 × 3,45               | 10,6 | 1081          | 31,0        | 892               |
| 3×1×95+95                         | 11,2                    | 2,0        | 15,2 | 19 × 2,50              | 12,8 | 1613          | 36,2        | 1.225             |
| 3×1×120+120                       | 12,6                    | 2,0        | 16,6 | 19 × 2,90              | 14,8 | 2054          | 40,1        | 1.531             |

| Cables with Neutral Aluminum - CA |                         |            |      |                        |       |               |             |                   |
|-----------------------------------|-------------------------|------------|------|------------------------|-------|---------------|-------------|-------------------|
| Nominal Cross<br>Section Area     | Conductor<br>Phase Dia. | Insulation |      | Neutral Conductor - CA |       | Bursting Load | Wiring Dia. | Nominal<br>Weight |
|                                   |                         | Thickness  | Dia. | Wires × Dia.           | Dia.  |               |             |                   |
| mm <sup>2</sup>                   | mm                      | mm         | mm   | mm                     | mm    | daN           | mm          | kg/km             |
| 3×1×35+35                         | 7,0                     | 1,6        | 10,2 | 7 × 2,50               | 7,65  | 1092          | 23,7        | 490               |
| 3×1×35+50                         | 7,0                     | 1,6        | 10,2 | 7 × 3,00               | 9,18  | 1572          | 24,6        | 530               |
| 3×1×50+35                         | 8,1                     | 1,6        | 11,3 | 7 × 2,50               | 7,65  | 1092          | 25,8        | 625               |
| 3×1×50+50                         | 8,1                     | 1,6        | 11,3 | 7 × 3,00               | 9,18  | 1572          | 26,7        | 665               |
| 3×1×70+50                         | 9,5                     | 1,8        | 13,1 | 7 × 3,00               | 9,18  | 1572          | 30,1        | 895               |
| 3×1×70+70                         | 9,5                     | 1,8        | 13,1 | 7 × 3,45               | 10,56 | 1991          | 31,0        | 920               |
| 3×1×95+70                         | 11,2                    | 2,0        | 15,2 | 7 × 3,45               | 10,56 | 1991          | 34,9        | 1.12              |
| 3×1×120+70                        | 12,6                    | 2,0        | 16,6 | 7 × 3,45               | 10,56 | 1991          | 37,5        | 1.375             |