Product Overview

XS/LXS Overhead Aerial Bundle Cables are designed for low-voltage overhead power distribution systems, particularly public electricity distribution networks.

Available in copper (XS) and aluminum (LXS) conductor configurations, these cables feature stranded conductors insulated with cross-linked polyethylene (XLPE). Their bundled construction provides a practical solution for outdoor overhead installations, including lines suspended between supports and installations attached to building facades.

Manufactured in accordance with applicable DMA C33-209 requirements, XS/LXS cables are suitable for overhead distribution applications with a rated voltage of 0.6/1 kV.

Product Types

XS – Copper Overhead Aerial Cable

XS cables use stranded copper phase conductors and public lighting conductors, with XLPE insulation. The outer-layer stranding direction is left-hand (S), as specified in the product construction.

LXS – Aluminum Overhead Aerial Bundle Cable

LXS cables use stranded aluminum phase conductors and public lighting conductors, with XLPE insulation. The outer-layer stranding direction is left-hand (S).

Construction

1. Conductors

- XS: Copper conductors, stranded Class 2.
- LXS: Aluminum conductors, stranded Class 2.
- Circular conductor construction.
- Left-hand (S) outer-layer stranding direction.

2. Insulation

- Material: Cross-linked polyethylene (XLPE).
- Insulation type: TIX-8, according to the supplied product specifications.

3. Supporting Neutral

Where included in the cable configuration, an aluminum-alloy supporting neutral conductor with a nominal cross-sectional area of 54.6 mm² is specified.

4. Cable Assembly

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The insulated conductors are twisted together in a right-hand (Z) direction, according to the supplied construction information.

Applications

XS/LXS overhead aerial bundle cables are used in:

- Low-voltage overhead power distribution networks
- Public electricity distribution systems
- Outdoor overhead lines installed between supporting structures
- Overhead service distribution
- Building facade installations
- Public lighting distribution systems

These cables are designed for outdoor overhead installation and are not suitable for direct underground installation.

Key Features & Benefits

- **Copper and Aluminum Options:** Available in XS copper and LXS aluminum conductor versions.
- **XLPE Insulation:** Provides electrical insulation for low-voltage overhead distribution applications.
- **Outdoor Installation:** Designed for overhead lines and facade-mounted installations.
- **Flexible Configurations:** Available in different conductor combinations and cross-sectional areas.
- **Supporting Neutral Option:** Configurations with a 54.6 mm² aluminum-alloy supporting neutral are available as specified.
- **Application-Specific Design:** Suitable for public low-voltage distribution and lighting networks.

Applicable Standards

The supplied product documentation references:

- DMA C33-209
- NP 3528
- HD 626
- IEC 60754-1
- EN 60754-1

The applicable standard and construction should be confirmed according to the destination market and project requirements.

Technical Specifications

XS – Copper Conductor Configurations

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Cable Composition	Approx. Outer Diameter (mm)	Approx. Weight (kg/km)	Maximum Current (A)
2 × 4 mm²	10	95	35
2 × 6 mm²	12	135	55
2 × 10 mm²	13	215	75
3 × 6 mm²	13	205	50
3 × 10 mm²	14	320	70
4 × 6 mm²	14	275	50
4 × 10 mm²	16	430	70

LXS – Aluminum Conductor Configurations

Cable Composition	Approx. Outer Diameter (mm)	Approx. Weight (kg/km)	Maximum Current (A)
2 × 16 mm²	15	130	85
3 × 16 mm²	16	195	75
4 × 16 mm²	18	260	75
5 × 16 mm²	20	325	75
6 × 16 mm²	22	390	75
4 × 25 mm²	22	395	100
4 × 25 + 1 × 16 mm²	24	460	100
4 × 25 + 2 × 16 mm²	26	525	100
3 × 25 + 54.6 mm²	23	500	100
3 × 25 + 54.6 + 1 × 16 mm²	25	570	100
3 × 25 + 54.6 + 2 × 16 mm²	27	635	100
4 × 35 mm²	26	550	120
4 × 35 + 1 × 16 mm²	27	615	120
4 × 35 + 2 × 16 mm²	27	680	120
3 × 35 + 54.6 mm²	27	620	120
3 × 35 + 54.6 + 1 × 16 mm²	29	685	120
3 × 35 + 54.6 + 2 × 16 mm²	32	750	120
4 × 50 mm²	29	705	150
4 × 50 + 1 × 16 mm²	30	770	150
4 × 50 + 1 × 25 mm²	31	800	150
4 × 50 + 2 × 16 mm²	31	835	150
4 × 50 + 2 × 25 mm²	32	900	150
3 × 50 + 54.6 mm²	30	735	150
3 × 50 + 54.6 + 1 × 16 mm²	31	800	150
3 × 50 + 54.6 + 1 × 25 mm²	32	835	150
3 × 50 + 54.6 + 2 × 16 mm²	33	865	150

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Cable Composition	Approx. Outer Diameter (mm)	Approx. Weight (kg/km)	Maximum Current (A)
3 × 50 + 54.6 + 2 × 25 mm²	34	935	150
4 × 70 mm²	33	1005	190
4 × 70 + 1 × 16 mm²	34	1070	190
4 × 70 + 1 × 25 mm²	35	1105	190
4 × 70 + 2 × 16 mm²	36	1135	190
4 × 70 + 2 × 25 mm²	36	1205	190
3 × 70 + 54.6 mm²	33	960	190
3 × 70 + 54.6 + 1 × 16 mm²	34	1030	190
3 × 70 + 54.6 + 1 × 25 mm²	35	1060	190
3 × 70 + 54.6 + 2 × 16 mm²	36	1095	190
3 × 70 + 54.6 + 2 × 25 mm²	36	1160	190
4 × 95 mm²	37	1325	230
4 × 95 + 1 × 16 mm²	38	1390	230
4 × 95 + 1 × 25 mm²	38	1420	230
4 × 95 + 2 × 16 mm²	40	1455	230
4 × 95 + 2 × 25 mm²	40	1520	230
3 × 95 + 54.6 mm²	37	1200	230
3 × 95 + 54.6 + 1 × 16 mm²	38	1265	230
3 × 95 + 54.6 + 1 × 25 mm²	38	1300	230
3 × 95 + 54.6 + 2 × 16 mm²	40	1330	230
3 × 95 + 54.6 + 2 × 25 mm²	40	1400	230

Note: The maximum current values are based on the supplied data at an ambient temperature of 30°C for free-air installation. Actual allowable current depends on installation conditions and applicable design requirements.

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