Product Overview

NF2X and NFA2X are low-voltage aerial bundled cables designed for overhead electrical power distribution networks.

These self-supporting bundled cables are used in metropolitan, suburban, and rural distribution systems, as well as public lighting and service connections to residential buildings.

The NF2X version features stranded copper conductors, while NFA2X uses stranded all-aluminium conductors. Both types are insulated with extruded cross-linked polyethylene (XLPE), providing electrical insulation and suitability for outdoor overhead installation.

The cables are designed for installation on poles, supporting brackets, and building facades, subject to applicable installation regulations.

Product Types

NF2X – Copper Aerial Bundled Cable

NF2X features stranded copper conductors with XLPE insulation. It is suitable for low-voltage overhead distribution and service connection applications where copper conductors are specified.

NFA2X – Aluminium Aerial Bundled Cable

NFA2X features stranded all-aluminium conductors with XLPE insulation. Its aluminium conductor construction offers a lightweight solution for overhead power distribution networks.

Construction

- **NF2X Conductor:** Stranded copper conductor.
- **NFA2X Conductor:** Stranded all-aluminium conductor.
- **Conductor Construction:** Round stranded conductors.
- **Insulation:** Extruded cross-linked polyethylene (XLPE).
- **Cable Arrangement:** Twisted aerial bundled construction.
- **Supporting Arrangement:** Self-supporting design; messenger or supporting-core configuration to be confirmed according to the approved cable construction.
- **Installation:** Overhead installation on poles, brackets, and building facades.

Applications

NF2X and NFA2X aerial bundled cables are designed for low-voltage electrical distribution systems.

Typical applications include:

- Metropolitan low-voltage power distribution networks.

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- Suburban and rural overhead distribution lines.
- Public street lighting systems.
- Residential service connections.
- Overhead electrical connections to buildings.
- Installation on poles, supporting brackets, and building facades.

Key Features and Benefits

Copper and Aluminium Conductor Options

NF2X provides stranded copper conductors, while NFA2X offers stranded aluminium conductors to meet different project requirements and conductor material preferences.

XLPE Insulation

Extruded XLPE insulation provides electrical insulation and is designed for continuous operation within the specified conductor temperature limits.

Self-Supporting Bundled Design

The twisted bundled arrangement is designed for overhead installation and helps simplify the configuration of low-voltage distribution lines.

Outdoor Installation

The cable construction is suitable for overhead distribution applications in metropolitan, suburban, and rural environments, subject to the specified installation conditions.

Residential and Public Lighting Applications

NF2X and NFA2X can be used for residential service connections and public lighting distribution systems.

Applicable Standards

Depending on the destination market and project requirements, NF2X / NFA2X cables may be manufactured according to:

- **HD 626 S1** – Aerial distribution cables for rated voltages up to 0.6/1 kV, subject to the applicable cable design and standard scope.
- **DIN VDE 0276-626** – German requirements for relevant aerial distribution cable designs.
- **SPLN 42-10** – Indonesian specification referenced for NF2X / NFA2X cable designs.
- **SPLN D3.010-1** – Relevant Indonesian utility specification, where applicable.
- Other national standards and customer-specific technical specifications upon request.

The applicable standard and edition should be confirmed for each product configuration and destination market.ct.

Technical Specifications – NF2X Copper Cable

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Cable Size	Nominal Conductor Cross-Section (mm²)	Insulation Thickness (mm)	Approx. Twisted Diameter (mm)	Approx. Net Weight (kg/km)	Max. Conductor Resistance at 20°C (Ω/km)	Current Carrying Capacity at 35°C (A)	Calculated Breaking Force (kg)
2×6 rm	6	1.2	13.0	147	3.08	54	394
2×10 rm	10	1.2	14.0	228	1.83	73	656
2×16 rm	16	1.2	16.0	350	1.15	97	1,051
4×6 rm	6	1.2	15.7	294	3.08	54	788
4×10 rm	10	1.2	17.0*	455	1.83	73	1,312
4×16 rm	16	1.2	19.0*	700	1.15	97	2,102
4×25 rm	25	1.4	24.0*	1,072	0.727	133	3,284

Technical Specifications – NFA2X Aluminium Cable

Cable Size	Nominal Conductor Cross-Section (mm²)	Insulation Thickness (mm)	Approx. Twisted Diameter (mm)	Approx. Net Weight (kg/km)	Max. Conductor Resistance at 20°C (Ω/km)	Current Carrying Capacity at 35°C (A)	Calculated Breaking Force (kg)
2×10 rm	10	1.2	14	94	3.08	54	322
2×16 rm	16	1.2	16	138	1.91	72	515
4×10 rm	10	1.2	17	187	3.08	54	644
4×16 rm	16	1.2	19	272	1.91	72	1,030
4×25 rm	25	1.4	24	423	1.20	102	1,610
4×35 rm	35	1.6	27	564	0.868	125	2,250

Technical Notes

- The NF2X and NFA2X conductor materials are different and should be clearly identified when ordering.
- The designation "rm" is retained from the supplied source and should be confirmed against the applicable conductor classification.

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- Current-carrying capacities are reference values based on the supplied data at an ambient temperature of 35°C. Actual ampacity depends on installation conditions and applicable design requirements.
- Breaking force values are reproduced from the supplied technical tables. The original test basis and unit definition should be verified.
- The supporting messenger arrangement and the function of each core should be confirmed from the approved construction drawing.

Why Choose QZ Cable?

QZ Cable is a cable and conductor manufacturer established in 1969 and part of QZ Group.

We support low-voltage overhead distribution projects with cable solutions based on customer drawings, technical specifications, and applicable standards.

- Manufacturer-direct supply.
- Copper and aluminium conductor options.
- Technical specification and drawing review.
- Solutions for residential and public distribution networks.
- Technical documentation according to the confirmed product configuration.

Frequently Asked Questions

1. What is the difference between NF2X and NFA2X?

NF2X uses stranded copper conductors, while NFA2X uses stranded all-aluminium conductors. Both versions use XLPE insulation.

2. What is NF2X / NFA2X cable used for?

These cables are designed for low-voltage overhead power distribution, public lighting, and residential service connections.

3. What insulation material is used?

Both cable types use extruded cross-linked polyethylene (XLPE) insulation.

4. Can these cables be installed on building facades?

Yes, the supplied application information includes installation on building facades, subject to local electrical installation regulations and the approved cable design.

5. Which standards are referenced for NF2X and NFA2X?

The supplied product information references HD 626 S1 and VDE 0276-626. The applicable requirements should be confirmed for the specific product and project.

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Contact QZ Cable for technical specifications, construction drawings, and project-based quotations for NF2X and NFA2X aerial bundled cables.

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