Product Overview

E-A2Y 0.6/1 kV is a polyethylene (PE)-insulated self-supporting aerial cable designed for low-voltage overhead power distribution networks.

The cable features aluminium conductors with extruded polyethylene insulation. It is intended for three-phase alternating-current networks with an effectively earthed neutral point and is installed overhead, suspended from poles or other suitable supporting structures.

E-A2Y cables are available in different core configurations and conductor cross-sections to meet various low-voltage distribution requirements.

The cable cores are twisted in a right-hand direction. During installation, the cable must be unwound from a cable drum over suitable rollers and pulled with all cores together. Unwinding the cable directly on the ground is not permitted.

Product Designation

E-A2Y 0.6/1 kV

- **E:** Cable designation used in the referenced product specification.
- **A:** Aluminium conductor.
- **2Y:** Polyethylene (PE) insulation.
- **0.6/1 kV:** Rated voltage.

The designation should be interpreted in accordance with the applicable OVE product specification.

Cable Construction

1. Conductor

Aluminium conductor designed for low-voltage overhead power distribution applications.

2. Insulation

Extruded polyethylene (PE) insulation provides electrical insulation for each conductor.

3. Core Arrangement

The insulated cores are twisted together with a right-hand lay direction. Available configurations include two-core, three-core, four-core, and combined cross-section designs.

Applications

E-A2Y 0.6/1 kV cables are designed for overhead installation in low-voltage three-phase alternating-current networks.

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Typical applications include:

- Low-voltage overhead power distribution.
- Aerial power lines suspended from poles.
- Three-phase electrical distribution networks.
- Overhead connections in distribution systems with an effectively earthed neutral point.
- Networks requiring self-supporting aerial cable arrangements.

Installation must comply with the applicable electrical regulations and the manufacturer's installation instructions.

Key Features and Benefits

Aluminium Conductors

Aluminium conductors provide a lightweight conductor solution for low-voltage overhead distribution networks.

PE Insulation

Extruded polyethylene insulation provides electrical insulation and is suitable for the specified operating conditions.

Self-Supporting Aerial Design

The twisted-core arrangement is intended for suspended overhead installation on poles and suitable supporting structures.

Multiple Core Configurations

Available configurations include 2-core, 3-core, 4-core, and combined conductor cross-sections, depending on the required network design.

Defined Installation Requirements

The cable is designed to be unwound from a cable drum over rollers and pulled with all cores together. This helps avoid improper handling during installation.

Applicable Standards

Depending on the destination market and product construction, E-A2Y cables may be specified according to:

- **ÖVE/ÖNORM E 8200-626** – Austrian requirements for relevant low-voltage aerial distribution cables.
- **HD 626 S1** – Aerial distribution cables for rated voltages up to 0.6/1 kV, subject to the applicable design and standard scope.
- **EN 60228** – Conductors of insulated cables, where applicable to the conductor construction.

The exact standard and edition must be confirmed for the selected product configuration.

Technical Specifications

E-A2Y 0.6/1 kV Cable Parameters

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No. of Cores × Cross-Section (mm²)	Conductor Shape	Nominal Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Cable Mass (kg/km)	Minimum Bending Radius (mm)	DC Resistance at 20°C (Ω/km)	Current Carrying Capacity (A)	Short-Circuit Current Equivalent (kA)
2×25	RMV	1.4	17	199	204	1.20	85	1.4
2×35	RMV	1.4	20	266	240	0.868	106	2.0
3×25	RMV	1.4	19	300	228	1.20	85	1.4
3×35	RMV	1.4	21	400	252	0.868	106	2.0
3×50	RMV	1.6	24	523	288	0.641	133	2.9
4×25	RMV	1.4	21	401	252	1.20	85	1.4
4×35	RMV	1.4	24	534	288	0.868	106	2.0
4×50	RMV	1.6	27	698	324	0.641	133	2.9
4×70	RMV	1.6	31	966	372	0.443	170	4.0
4×95	RMV	1.8	36	1,303	432	0.320	196	5.5
4×120	RMV	1.8	40	1,599	480	0.253	240	6.9
4×70 + 1×35	RMV	1.6/1.4	31	1,099	372	0.443	170	4.0*

Technical data notes:

- RMV is retained from the original source. Its exact conductor classification should be confirmed.
- Current-carrying capacities are reproduced from the supplied technical data. Actual ampacity depends on installation and environmental conditions.
- The original table includes a short-circuit current-equivalent column and a time-heating-constant column. Their alignment is unclear in the supplied text.
- The final value of 577 in the 4×70 + 1×35 row appears to belong to an additional column, but its heading and unit need confirmation.
- The short-circuit values above are reproduced as the first apparent short-circuit column and should be checked against the original datasheet before engineering use.

Installation Instructions

Correct installation is essential to maintain the cable's mechanical and electrical performance.

- Unwind the cable from a suitable cable drum.
- Use rollers during cable pulling.
- Pull all cores together during installation.
- Do not unwind or drag the cable directly on the ground.
- Maintain the specified bending radius.
- Installation must be carried out by trained and qualified electrical personnel.
- Follow applicable electrical installation rules and safety requirements.

Why Choose QZ Cable?

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

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

- Manufacturer-direct supply.
- Aluminium conductor cable solutions.
- Technical specification and drawing review.
- Product configurations for low-voltage overhead networks.
- Technical documentation based on confirmed product requirements.

Frequently Asked Questions

1. What is E-A2Y cable?

E-A2Y is a PE-insulated self-supporting aerial cable with aluminium conductors, designed for 0.6/1 kV low-voltage overhead power distribution.

2. What insulation material is used in E-A2Y cable?

The cable uses extruded polyethylene (PE) insulation.

3. What is the rated voltage of E-A2Y cable?

The rated voltage specified in the supplied product description is 0.6/1 kV.

4. Where is E-A2Y cable installed?

It is designed for overhead installation, suspended from poles and other suitable supporting structures in low-voltage distribution networks.

5. How should E-A2Y cable be unwound and installed?

The cable should be unwound from a cable drum over rollers and pulled with all cores together. Unwinding directly on the ground is not permitted.

6. What conductor sizes are available?

The supplied technical table covers configurations from 2×25 mm² to 4×120 mm², as well as 4×70 + 1×35 mm². Other configurations should be confirmed according to project requirements.

Contact QZ Cable for E-A2Y 0.6/1 kV technical specifications, construction details, and project quotations.

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