

Aerial service cable

IEC 60502



Application

This single phase or three-phase aerial cable is used for the connection between the low voltage network and the home. It is perfectly suitable for electrification applications in rural and suburban areas thanks to its optimized 6mm² section. It is stretched to a maximum range of 40m.

Description

- This single phase or three-phase cable respectively consists of 2 or 4 twisted insulated conductors, phase(s) and neutral.
- Service voltage rate: 600V.
- Conductors core made of aluminium:
 - Conductors section: 6mm²
 - Diameter over core: 3.12mm
 - Number of strands: 7
 - Diameter of strands: 1.04mm
 - Mechanical strength of strands: 18.5daN/mm²
 - Minimum strain of strands: 1.2%
 - Step factor: 10 - 16
 - Step direction: right
- Conductors insulation made of polyethylene:
 - Nominal insulation thickness: 1.2mm
 - Minimum insulation thickness: 0.98mm
 - Diameter over insulation: 5.52mm
- Cable characteristics:
 - Phase identification: marking
 - Twist step factor: 25 - 60
 - Twist step direction: right
 - Twist weight: 75kg / km
 - Dielectric test / water: 2.5kVac / 1 min
 - Linear strength to 20°C: 4.5Ω/km
 - Maximum intensity in permanent capacity in the open air: 30A
 - Maximum short circuit current for 1s: 637A
 - Maximum temperature in service: 90°C

This cable meets the acceptance criteria of the IEC 60502 standard.

Code	Designation	Packaging	Weight (kg)	Sales unit
U300	AERIAL SERVICE CABLE 2x6mm ²	200m ring	15	1
U304	AERIAL SERVICE CABLE 4x6mm ²	200m ring	30	1



Other cable sections available.
Please enquire.

Accessories dedicated to the 6mm² cable

EN 50483 CE NF



This insulation piercing connector is used to perform a tap connection from a network from 16 up to 95mm² with the 6mm² aerial service cable.

L227



Cable ends are used to facilitate the insertion of cables into terminals like breaker. The retention of the cable is performed thanks to crimping.

F62x

Code	Designation	Weight (kg)	Sales unit
L227	CONNECTOR CES/CT 95	0.060	200
F625	CABLE END FOR 6mm ² (Batch of 100)	0.100	1
F627	CABLE END FOR 16mm ² (Batch of 100)	0.120	1



L306

L304



U500

This anchoring clamp is used to fix 2x6mm² service cable between the pole and the home. It can be associated with the fixing clamp (L304) for implementation on a wall or a pole, thanks to a screw M10 (L306) or strap.

This accessory is used for supporting service network of type 2x6 up to 4x25mm².



K265

Code	Designation	Weight (kg)	Sales unit
U500	ANCHORING CLAMP 2x6mm ² - PA6	0.100	100
U500_4x6	ANCHORING CLAMP 4x6mm ² - PA4x6	0.120	100
L304	FIXING CLAMP - PF25	0.010	100
L306	SCREW M10	0.048	50
K265	BELT SUSPENSION WITH RING	0.020	25



SEE SHEET
ACCESS TO ENERGY / Distribution / Stainless steel strap



This tool is perfectly adapted to strip 6mm² section cables to facilitate wiring to equipment.

Code	Designation	Weight (kg)	Unit sale
F493	STRIPPING TOOL 6mm ²	0.150	1