

ENERGY – GROUND WIRE STRANDS

STEEL STRANDS

The ground wire strand is an essential element in overhead power lines to protect conductors from lightning.

FGC are able to respond to the technical specifications of every nation.

The strand is supplied as finished or semi-finished product in the following versions:

- galvanized
- heavy galvanization
- aluminium clad steel (ACS)
- zinc-5% aluminium Mischmetal alloy



TERNA CERTIFIED FINISHED PRODUCTS - Ground wire steel strands

PROPERTIES OF MATERIALS

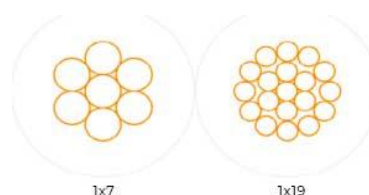
GALVANIZED AND HEAVY GALVANIZED STEEL

Characteristics	Value
Diameters	from 8,00 to 12,50 mm
Tensile strength	> 135 daN/mm ²
Class and mass of coating	A > 230 g/m ²
Heavy galvanized coating	> 549 g/m ²
Theoretical unit weight	from 396 to 733 kg/km
MBL	from 5685 to 14450 daN
Theoretical electric resistance at 20°C	from 1,705 to 2,416 Ohm/km
Standards	CEI 7.2, EN50189, IEC, ASTM, BS
Certifications	TERNA, ENEL, RFI

ALUMINIUM CLAD STEEL – ACS

Characteristics	Value
Diameters	from 9,00 to 14,50 mm
Theoretical unit weight	from 329 to 842 kg/km
MBL	from 5900 to 15240 daN
Theoretical electric resistance at 20°C	from 0,6821 to 1,714 Ohm/km
Standards	CEI 7.11
Certifications	TERNA, ENEL, RFI

CONSTRUCTIONS



ZINC-5% ALUMINIUM MISCHMETAL ALLOY COATED STEEL

Characteristics	Value
Diameters	from 8,00 to 12,50 mm
Tensile strength	> 135 daN/mm ²
Class and mass of coating	A > 230 g/mm ²
Theoretical unit weight	from 396 to 733 kg/km
MBL	from 5685 to 14450 daN
Theoretical electric resistance at 20°C	from 1,705 to 2,416 Ohm/km
Standards	EN50540, ASTM B598-08

ADVANTAGES

- Hot dip heavy galvanization
- Computerized control of the coating thickness
- Integrated production cycle
- Ability to respond to the international technical specifications
- Small lots for maintenance/repair

RTE (Réseau de transport d'électricité) CERTIFIED SEMI-FINISHED PRODUCTS

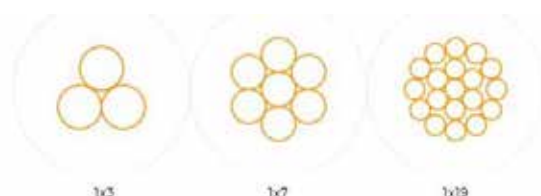
Steel core for bimetallic ground wire strands

PROPERTIES OF MATERIALS

GALVANIZED STEEL

Characteristics	Value
Diameters	from 4,30 to 12,25 mm
Coating	Galvanized
Grease (on request)	Type A EN50326
Standards	EN 50189/50182, IEC 60888/61089, ASTM B 498, BS 215
Certifications	RTE (ACSR Phlox and Pastel)

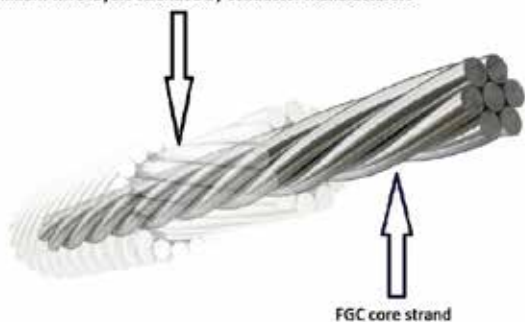
CONSTRUCTIONS



ADVANTAGES

- Computerized control of the coating thickness
- Integrated production cycle
- Ability to respond to the international technical specifications
- Possibility of supplying the strand greased (on request)

Aluminium wire layers stranded by conductor manufacturers



PACKAGING



STANDARD
Wooden reels from 1000 to 4000 m



SEAWORTHY
Treated and fumigated wooden reels FAO ISPM 15