# CV-CVZ COPPER CABLE FOR INFRASTRUCTURE NETWORKS

Cables for substations and switchgear Intercity railways

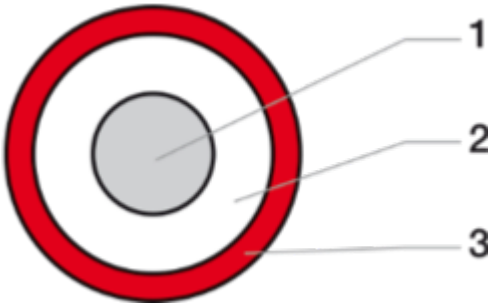
## BENEFITS

- Wires with high resistance to cuts and sharp edges

## APPLICATIONS

- Connecting relays and cards in the racks
- Wires for connecting relays and electronic signalling devices
- CV reserved for wiring the OCP (Optical Control Panel)

## GENERAL CHARACTERISTICS




1. Rigid wires (CV and CVZ): solid tinned copper core - Class 1 or flexible wires (CV-S and CVZ-S): tinned copper stranded core  - Class 5.
2. Insulation: white (CVZ) or coloured (CV) lead-free PVC - CV and CV-S wires: no outer sheath.
3. CVZ and CVZ-S wires: outer sheath in coloured polyamide + marking.

### Mechanical

- Operating temperature: 70°C
- Resistant to mineral oil
- Abrasion-resistant
- Resistant to high temperatures under stress
- Bending radius:
  - Rigid - static: 5 x D - dynamic: 10 x D
  - Flexible - static: 4 x D - dynamic: 8 x D

### Electrical

- Operating voltage: 750V

RANGE

| | Composition | Cross-sectional area of core (mm2) | Composition of core Nb x Ømm | Diameter of insulation (mm) | Diameter of sheath (mm) | Net weight (kg/km) | Linear resistance Ohm/km | Reel format Length (m) |
|---|---|---|---|---|---|---|---|---|
| Rigid | | | | | | | | |
| S2394 | CV 1 x | 0,5 | 1 x 0,80 | 1,60 | - | 6,0 | 36,70 | 200 |
| R3526 | CVZ 1 x | 1,0 | 1 x 1,17 | 1,90 | 2,30 | 13,2 | 18,20 | 200 |
| L5404 | CVZ 1 x | 2,5 | 1 x 1,78 | 2,70 | 3,10 | 29,3 | 7,56 | 200 |
| Flexible | | | | | | | | |
| L5405 | CV-S 1 x | 0,5 | 16 x 0,20 | 1,60 | - | 6,8 | 40,10 | 200 |
| L2999 | CVZ-S 1 x | 0,5 | 16 x 0,20 | 1,60 | 2,30 | 7,6 | 40,10 | 200 |
| R3527** | CVZ-S 1 x | 1,0 | 32 x 0,20 | 2,10 | 2,50 | 14 | 20,00 | 200 |
| L5406 | CVZ-S 1 x | 2,5 | 50 x 0,25 | 3,00 | 3,40 | 29,1 | 8,21 | 200 |
| L5407 | CVZ-S 1 x | 6,0 | 84 x 0,30 | 4,20 | 4,60 | 57 | 3,39 | 100 |
| R3823* | CVZ-S 1 p | 1,0 | 32 x 0,20 | 2,10 | 2,50 | 29 | 20,00 | 200 |

* CVZ-S 1 p. x 1mm² = 2 CVZ-S 1 x 1mm² wires twisted together
**Wires kept in stock are black - Other colours are available on request according to model

# NORMS AND STANDARDS

## General standards

- SNCF CT 500 specification
- SNCF approved

## Fire behavior

- EN 60332-1 Flame retardant