SPFB Speed Control System Cables

Applications

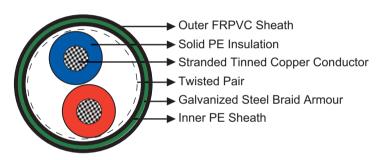
The cables are used for the train speed control system (French system KVB). The cables are laid along railway lines and connect the speed sensors (located between the rails) to the encoder located inside the trackside equipment shelter.

Standards

SNCF CT 446

№ Construction

- Conductors: Class 2 stranded tinned copper.
- · Insulation: Solid polyethylene.
- · Cabling Element: Twisted pair.
- Inner Sheath: Low density polyethylene.
- Armour: Galvanized steel braid armour.
- Outer Sheath: Flame Retardant PVC.



➡ Electrical Characteristics at 20°C

| Nominal Conductor Diameter | mm | 0.8 |
|-----------------------------------|-------|------|
| Nominal Cross Section Area | mm² | 0.5 |
| Maximum Conductor Resistance (DC) | Ω/km | 36 |
| Characteristic Impedance @100KHz | Ω | 120 |
| Maximum Attenuation @50KHz | dB/km | 5 |
| Nominal Insulation Thickness | mm | 0.55 |
| Operating Voltage | V | 500 |

■ Mechanical and Thermal Properties

- Minimum Bending Radius: 8×OD (static); 16×OD (dynamic)
- Temperature Range: -30°C to +70°C (during operation); -20°C to +50°C (during installation)

Dimensions and Weight

| Cable Code | No. of cores& Nominal Conductor Cross Sectional Area No.×mm² | No. & Nominal Diameter of Strands No/mm | Thick | I Sheath kness m Outer | Nominal Overall Diameter mm | Nominal Weight kg/km |
|----------------------------|---|--|-------|---------------------------------|--------------------------------------|----------------------------|
| RS/SPFB-2Y2Y(SWB)2Y-2C0.5S | 2 x 0.5 | 7/0.32 | 1.0 | 1.5 | 9.1 | 97 |













Mineral Oil

Laid In Ducts/ NF C32-070-2.1(C2) Channel IEC 60332-1/EN 50265-2-1