SPFB REINFORCED FIBER OPTIC CABLE

Speed control (French system) Intercity railways - Balise cables

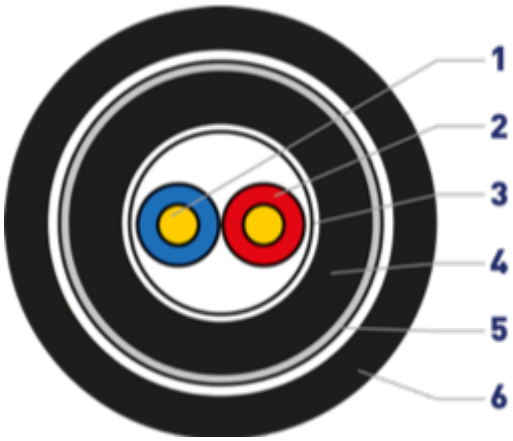
BENEFITS

- Can be used in an ERTMS system over a short distance

APPLICATIONS

- Cable installed along tracks, intended for speed control by balise (KVB) circuits
- Links the speed balise's digital transponder, placed between the rails, to the encoder located inside the switchgear substation

GENERAL CHARACTERISTICS



1. Red copper stranded core - Class 2
2. Insulation: coloured polyethylene
3. Wiring
4. Polyethylene water-blocking internal sheath
5. Galvanised steel braid armour
6. Outer jacket black lead-free PVC + marking + metric

Mechanical

- Flexible cable
- Fire resistance NFC 32070.2.1 (flame retardant) and IEC 60332-1

- Operating temperature: 70°C
- Resistant to mineral oils, liquid fuels and ozone
- Bending radius:
  - Static: 8 x D,
  - Dynamic: 16 x D
- Duct installation

Electrical

- Linear resistance: 36Ω/km
- Operating voltage: 500V
- Characteristic impedance: 120Ω at 100kHz
- Linear attenuation: < 5dB/km at 50kHz

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)	Reel format Length (m)
M1321	2 x	0,5	7 x 0,32	1,9	9,7	97	B 1000

- Other formats available on request

NORMS AND STANDARDS

General standards

- SNCF CT 446 specification
- SNCF approved
- Available in halogen-free version