

ZPFU SINGLE-MODE FIBER OPTIC CABLE

Intercity railway signal cable (DC-electrified lines)

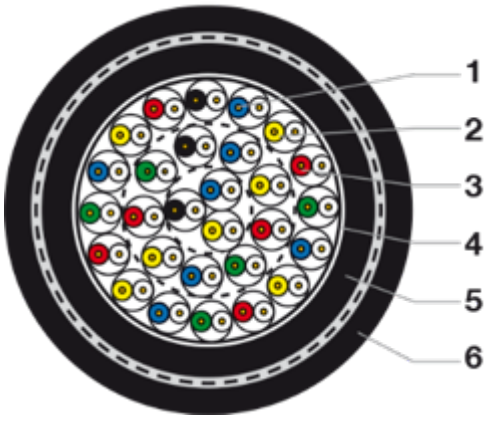
BENEFITS

- Can be used in short lengths along 25kV AC-electrified tracks to connect switchgear substations to switches and crossings

APPLICATIONS

- Connects the central control station to the switchgear substations
- Installed in long lengths along non-electrified tracks and 1500V DC-electrified tracks

GENERAL CHARACTERISTICS



1. Red copper solid core – Class 1
2. Insulation: coloured polyethylene
3. Twisted pair wiring
4. Polyethylene water-blocking internal sheath
5. Armour: 2 steel spiral strips
6. Outer black lead-free PVC or brown SH jacket + marking + metric

Mechanical

- Operating temperature: 70°C
- Resistant to mineral oils, acids and bases
- Bending radius: static 8 x D, dynamic 16 x D
- Duct or buried installation

Electrical

- Linear resistance: 18.1Ω/km
- Operating voltage: 750V
- Capacitance: < 55nF/km
- Characteristic impedance: 120Ω at 45KHz
- Linear attenuation: < 2.5dB/km at 45kHz.

RANGE

PVC	Halogen free	Composition	Cross-sectional area of core (mm2)	Composition of core Nb x Ømm	Diameter of sheath (mm)	Net weight (kg/km) PVC/ZH	Reel format Length (m)
U3763	U3783	1 p.	1	1 x 1,12	11,4	165/210	C 1000
U3764	U3784	2 p.*	1	1 x 1,12	12,6	218/255	D 1000
U3765	U3785	4 p.	1	1 x 1,12	16,0	330/375	E 1000
U3766	U3786	7 p.	1	1 x 1,12	19,5	615/690	F 1000
U3767	U3787	14 p.	1	1 x 1,12	24,5	945/1010	F 500
U3768	U3788	21 p.	1	1 x 1,12	28,1	1216/1330	F 500
U3769	U3789	28 p.	1	1 x 1,12	31,0	1439/1560	G 500

- Other formats available on request Associated range: ZPFU with 1.5mm² cross-section
- Sheath diameter is indicative and may vary slightly
- Assembly in 4-wire colour: Black-Colourless / Blue-Yellow

NORMS AND STANDARDS

General standards

- SNCF CT 445 specification
- SNCF approved

Euroclass

- Euroclass B2ca-s1a, d2, a1 (ZPFU - SH cables)

Fire behavior

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

RECOMMENDATIONS

DOCUMENTATION

- CATALOGUE ACORAIL