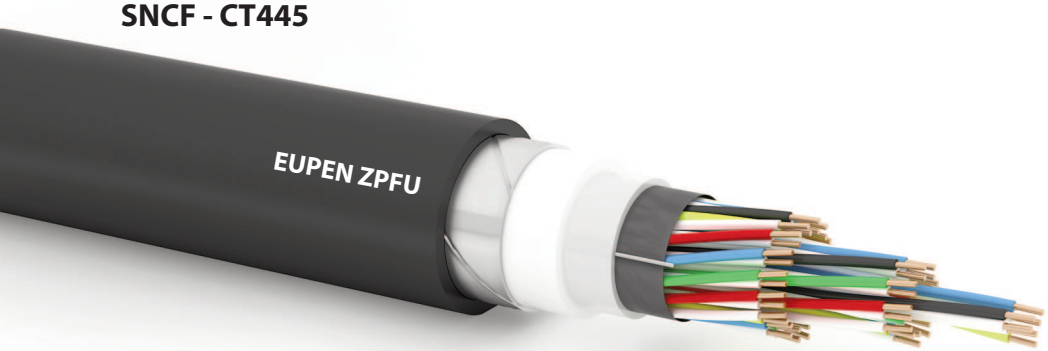
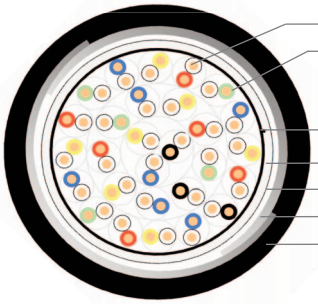
ZPFU 450/750 V

Reference standard :

SNCF - CT445



Construction



1. Solid copper conductor
2. PE insulation
   Twisted pairs laid up in concentric layers
   Colour coding acc. CT 445
3. Common core covering
4. PE inner sheath
5. Separation and protection sheath (taped or extruded)
6. 2 layers of steel tape
7. PVC or halogen free compound outer sheath black

Properties

- Excellent mechanical protection (also against rodent attacks)
- Service temperature: -30 ... +70 °C
- Laying temperature: -5 ... +60 °C
- Min. bending radius: 10 x cable outer diameter
- Max. pulling force: 50 N/mm² x total cross-section of all copper conductors together
- Reaction to fire acc. to NFC 32-070 class C2

Dimensions

Cross-section	Diameter over watertightness sheath approx. mm	Outer sheath thickness mm	Outer diameter approx. mm	Weight of cable approx. kg/km
1 x2x1 mm²	7,0	1,5	12,5	196
2 x 2 x 1 mm²	8,0	1,5	13,4	237
4 x 2 x 1 mm²	11,5	1,5	17,0	355
7 x 2 x 1 mm²	14,0	1,5	20,4	626
14 x 2 x 1 mm²	19,0	1,7	27,0	1000
21 x 2 x 1 mm²	23,0	1,7	30,0	1300
28 x 2 x 1 mm²	26,5	1,8	34,0	1575
56 x 2 x 1 mm²	36,0	2,2	44,0	2600

ZPFU 450/750 V

Electrical properties

- Conductor resistance (DC) @ 20 °C: max. 18,1 Ω/km
- Insulation resistance @ 20 °C: min. 5 GΩ*km
- Voltage test: 3 kV AC/ 3 min
- Mutual capacitance: max. 55 nF/km
- Capacitance unbalance: 2 pairs cable: max. 300 pF/500 m
  other models: max. 200 pF/500 m (all values)
- Impedance: 20 - 45 kHz: for pairs cable 120 ± 10 Ω (for star quads cable: 140 ± 10 Ω)
  45 - 80 kHz: for pairs cable 115 ± 10 Ω (for star quads cable: 130 ± 10 Ω)
- Attenuation: 20 - 45 kHz: max. 2,5 dB/km
  45 - 80 kHz: max. 3 dB/km