

SXCAV 0,6/1 kV

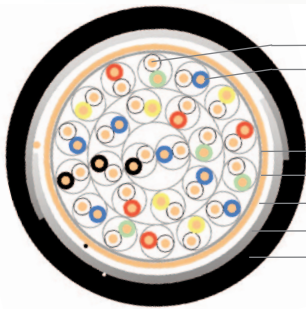
1/2

Reference standard :Belgian Railway standard

Infrabel S21



Construction



1. Solid copper conductor
2. XLPE insulation
Twisted pairs laid up in concentric layers:
Conductor identification by color code acc. S21
3. Common core covering
4. Copper anti-induction and High frequency screen
5. PE inner sheath
6. 2 layers of steel tape + additional copper wires as anti-induction screen
7. Outer sheath: PVC (V)

Properties

- Excellent mechanical Properties (also against rodent attacks)
- Service temperature -30 ... + 90 °C
- Laying temperature : -5 ... +60 °C
- Protected against inductive influence acc. S21 requirements
- Controlled transfer impedance for good EMC behavior
- Fire retardant acc. NBN C 30-004-F2 (IEC 60332-3-24 Cat. C)

Dimensions and characteristics

Cross section	Insulation thickness mm	Thickness of inner sheath mm	Diameter over inner sheath mm	Thickness of outer sheath mm	Overall Diameter	Cable weight approx. kg/km
SXCAV						
1x2x1,5	0,7	1,0	8,0 - 10,5	1,3	13,0 - 16,5	430
1x4x1,5	0,7	1,0	10,0 - 12,0	1,3	15,0 - 18,0	500
4x2x1,5	0,7	1,0	14,5 - 16,5	1,6	20,0 - 23,5	785
7x2x1,5	0,7	1,0	17,2 - 19,5	1,7	22,5 - 26,5	1025
14x2x1,5	0,7	1,2	24,0 - 26,5	1,8	30,0 - 34,0	1575
24x2x1,5	0,7	1,2	31,5 - 34,5	2,0	39,0 - 43,0	2250
30x2x1,5	0,7	1,2	33,0 - 36,5	2,2	41,5 - 45,5	2600



SXCAV 0,6/1 kV

Electrical characteristics

- Conductor resistance : ≤ 12.3 Ohm/km
- Pair capacitance : < 60 nF/km
- Voltage test : 3.5 kVac or 8.4 kVdc
- Reduction coefficient (inductive protection):

Em/m (mV)	28	32	37	42	47	54	70	80	100	120	170	225
Rk maxi	0.75	0.70	0.60	0.50	0.40	0.35	0.30	0.28	0.26	0.25	0.24	0.25

- Transfer impedance : < 3 mOhm/m @ 300 kHz
 < 4 mOhm/m @ 1 ...30 MHz

All information given is indicative only and not binding and can be subject to change without notice.