

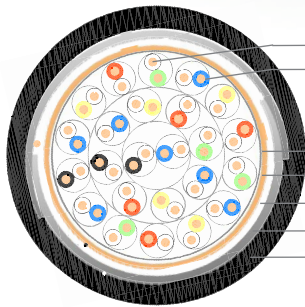
SXCAV / SXCAG 0,6/1 kV

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) or halogen free compound (G)

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)
- Halogen free for SXCAG for indoor / tunnel laying

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
SXCAG						
1x2x1,5	0,7	1,0	8,0 - 10,5	1,3	13,0 - 16,5	415
7x2x1,5	0,7	1,0	17,2 - 19,5	1,7	22,5 - 26,5	975
24x2x1,5	0,7	1,2	31,5 - 34,5	2,0	39,0 - 43,0	2150



SXCAV / SXCAG 0,6/1 kV

2/2

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.