

SAT-TV Cable



Construction data

Cable code		EC100	SA125	SA165
Inner conductor	material	BC	BC	BC
	dia. mm	1.00	1.25	1.63
Dielectric	material	FPE	FPE	FPE
	dia. mm	4.65	5.72	7.25
Screen:				
Film foil type	material	Cu-PET	Cu-PET	Cu-PET
Foil coverage	%	115	100	120
Braid	material	BC	BC	BC
	Braid coverage	%	52	57
Outer sheath	material	PVC	PVC	PVC
	dia. mm	6.70	8.10	10.10

Electrical data

Impedance	Ohm	75 ± 3	75 ± 3	75 ± 2	
Capacitance	pF/m	54 ± 2	52 ± 2	52 ± 2	
Velocity ratio	%	82	85	85	
Attenuation (at 20°C)					
at	5 MHz	dB/100m	1.5	1.3	1.1
at	10 MHz	dB/100m	2.1	1.8	1.5
at	30 MHz	dB/100m	3.2	2.7	2.2
at	50 MHz	dB/100m	4.1	3.5	2.8
at	200 MHz	dB/100m	8.4	7.1	5.6
at	300 MHz	dB/100m	10.3	8.8	6.9
at	470 MHz	dB/100m	13.2	11.0	8.8
at	862 MHz	dB/100m	18.2	15.3	12.3
at	1000 MHz	dB/100m	19.8	16.7	13.2
at	1750 MHz	dB/100m	26.9	22.7	17.9
at	2150 MHz	dB/100m	30.0	25.2	20.1
at	2400 MHz	dB/100m	31.7	26.0	21.0
at	3000 MHz	dB/100m	36.5	30.5	24.5
Structural Return Loss (SRL)					
at	5 - 470 MHz	dB	> 30	> 30	> 30
at	470 - 1000 MHz	dB	> 28	> 28	> 28
at	1000 - 2000 MHz	dB	> 26	> 26	> 23
at	2000 - 3000 MHz	dB	> 22	> 22	> 20
Screening attenuation (SA)					
at	5 - 30 MHz	class	A	A	A
at	30 - 1000 MHz	mOhm/m	0.6	0.6	0.5
at	1000 - 2000 MHz	dB	> 85	> 85	> 85
at	2000 - 3000 MHz	dB	> 90	> 80	> 95
at		dB	> 85	> 65	> 85
DC resistance inner/outer cond.	Ohm/km	22.5 / 15.8	14.0 / 12.5	8.5 / 9.5	
Loop resistance	Ohm/km	38.3	26.5	18.0	
Max. current (I eff)	A	6.0	10.0	16.0	
Sheath spark testing	kV	8.0	8.0	8.0	
Specification conformity	EN50117	part 2-5	part 2-5	part 2-3	