



Cable type	Standard:	707CRT2
Size: 1.60/7.25	Aerial:	A 707CRT2

	Units	Nominal
<b>Construction</b>		
<b>INNER CONDUCTOR</b>		
Material and construction	-	copper wire
Diameter	mm	1.60
<b>DIELECTRIC</b>		
Material	-	gas-injected cellular PE
Diameter	mm	7.25
<b>OUTER CONDUCTOR</b>		
Material and construction	-	copper tape & copper braid
Diameter over tape	mm	7.40
<b>OUTER SHEATH</b>		
Material	-	polyethylene
Thickness	mm	1.0
Overall diameter	mm	10.0 < 10.2

<b>Cable with messenger</b>		
<b>MESSENGER</b>		
Material	-	AMS
Construction	.. X mm	1 x 3.15
Diameter over messenger	mm	5.5
<b>OVERALL DIMENSIONS</b>	mm	17/10

<b>Mechanical characteristics</b>			
Minimum bending radius			
	1 x	cm	3.0
	10 x	cm	6.0
Maximum pulling strength (without messenger)		daN	15
Weight		kg/km	90

<b>Cable with messenger</b>		
Minimum breaking strength of messenger	daN	250
Modulus of elasticity	N/mm <sup>2</sup>	62000
Thermal coefficient of linear expansion	1/°C	23 x 10 <sup>-6</sup>
Weight	kg/km	128

<b>Electrical characteristics</b>				
Characteristic impedance	Ω		75	+/- 3
Capacity	pF/m		54	
Relative propagation velocity (velocity ratio)	%		82	
DC-resistance of inner conductor at 20°C	Ω/km		8.5	
DC-resistance of outer conductor at 20°C	Ω/km		6.4	
Current rating (50 - 60) Hz	A		9	
Dielectric voltage strength	kV		1.5	
Longitudinal attenuation at 20°C			α(f <sub>[MHz]</sub> ) = a · √f <sub>[MHz]</sub> + b · f <sub>[MHz]</sub>	
	a =	-	0.37	
	b =	-	0.0016	
	5 MHz	dB/100m	0.84	< 0.88
	10 MHz	dB/100m	1.19	< 1.25
	30 MHz	dB/100m	2.07	< 2.18
	50 MHz	dB/100m	2.70	< 2.83
	100 MHz	dB/100m	3.86	< 4.05
	200 MHz	dB/100m	5.55	< 5.83
	300 MHz	dB/100m	6.89	< 7.23
	400 MHz	dB/100m	8.04	< 8.44
	470 MHz	dB/100m	8.77	< 9.21
	600 MHz	dB/100m	10.02	< 10.52
	800 MHz	dB/100m	11.75	< 12.33
	860 MHz	dB/100m	12.23	< 12.84
	1000 MHz	dB/100m	13.30	< 13.97
	1750 MHz	dB/100m	18.28	< 19.19
	2150 MHz	dB/100m	20.60	< 21.63
	2400 MHz	dB/100m	21.97	< 23.06

Return loss (3 peak values up to 4 dB lower are permissible)			
	10 - 470 MHz	dB	> 23
	470 - 862 MHz	dB	> 20
	862 - 1200 MHz	dB	> 18
Screening attenuation (30 - 1000 MHz)		dB	> 95
Transfer impedance (5 - 30 MHz)		mΩ/m	< 2.5
EN-50117 Screening Class		-	Class A+