



Cable type	standard	707CRT5(V)	
Size: 1.63/7.2	aerial	A 707CRT5(V)	
	Units	Nominal	

Construction

INNER CONDUCTOR			
Material and construction	-	copper wire	
Diameter	mm	1.63	
DIELECTRIC			
Material	-	gas-injected cellular PE	
Diameter	mm	7.2	
OUTER CONDUCTOR			
Material and construction	-	aluminium tape & braid	
Diameter over tape	mm	7.4	
OUTER SHEATH			
Material	-	PE (PVC)	
Thickness	mm	1.0	
Overall diameter	mm	10.0	< 10.4

Cable with messenger

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

Mechanical characteristics

Minimum bending radius			
	1 x	cm	5
	10 x	cm	10
Maximum pulling strength (without messenger)		daN	10
Weight		kg/km	72

Cable with messenger

Minimum breaking strength of messenger	daN	250	
Modulus of elasticity	daN/mm ²	62000	
Thermal coefficient of linear expansion	1/°C	23 x 10⁻⁶	
Weight	kg/km	109	

Electrical characteristics

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	8.2	
DC-resistance of outer conductor at 20°C	Ω/km	9.2	
Current rating (50 - 60) Hz	A	9	
Dielectric voltage strength	kV	2	
Longitudinal attenuation at 20°C	$\alpha(f_{[MHz]}) = a \cdot \sqrt{f_{[MHz]}} + b \cdot f_{[MHz]}$		

a =	-		
b =	-		
5 MHz	dB/100m	1.17	< 1.29
10 MHz	dB/100m	1.51	< 1.66
30 MHz	dB/100m	2.36	< 2.60
50 MHz	dB/100m	2.96	< 3.25
100 MHz	dB/100m	4.09	< 4.50
200 MHz	dB/100m	5.75	< 6.32
300 MHz	dB/100m	7.07	< 7.77
400 MHz	dB/100m	8.21	< 9.03
470 MHz	dB/100m	8.95	< 9.84
600 MHz	dB/100m	10.20	< 11.22
800 MHz	dB/100m	11.94	< 13.14
860 MHz	dB/100m	12.43	< 13.68
1000 MHz	dB/100m	13.53	< 14.88

Return loss (3 peak values up to 4 dB lower are permissible)			
5 - 470 MHz	dB	> 23	
470 - 860 MHz	dB	> 20	
Screening attenuation (30 - 1000 MHz)			
	dB	> 70	
Transfer impedance (5 - 30 MHz)			
	m Ω/m	< 20	
EN 50117 screening class	-	-	