



<b>Cable type</b>	<b>Standard:</b>	<b>707CRT5(V)</b>
<b>Size: 1.63/7.2</b>	<b>Aerial:</b>	<b>A 707CRT5</b>

	<b>Units</b>	<b>Nominal</b>
<b>Construction</b>		
<b>INNER CONDUCTOR</b>		
Material and construction	-	<b>copper wire</b>
Diameter	<i>mm</i>	<b>1.63</b>
<b>DIELECTRIC</b>		
Material	-	<b>gas-injected cellular PE</b>
Diameter	<i>mm</i>	<b>7.2</b>
<b>OUTER CONDUCTOR</b>		
Material and construction	-	<b>aluminium tape &amp; braid</b>
Diameter over tape	<i>mm</i>	<b>7.4</b>
<b>OUTER SHEATH</b>		
Material	-	<b>PE (PVC)</b>
Thickness	<i>mm</i>	<b>1.0</b>
Overall diameter	<i>mm</i>	<b>10.0 &lt; 10.4</b>

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

<b>Mechanical characteristics</b>			
Minimum bending radius			
	1 x	<i>cm</i>	<b>5</b>
	10 x	<i>cm</i>	<b>10</b>
Maximum pulling strength (without messenger)		<i>daN</i>	<b>10</b>
Weight (PE / PVC jacket)		<i>kg/km</i>	<b>72 (94)</b>

<b>Cable with messenger</b>		
Minimum breaking strength of messenger	<i>daN</i>	<b>250</b>
Modulus of elasticity	<i>N/mm<sup>2</sup></i>	<b>62000</b>
Thermal coefficient of linear expansion	<i>1°C</i>	<b>23 x 10<sup>-6</sup></b>
Weight	<i>kg/km</i>	<b>109</b>

<b>Electrical characteristics</b>				
Characteristic impedance		$\Omega$	<b>75</b>	+/- 3
Capacity		<i>pF/m</i>	<b>54</b>	
Relative propagation velocity (velocity ratio)		%	<b>82</b>	
DC-resistance of inner conductor at 20°C		$\Omega/km$	<b>8.2</b>	
DC-resistance of outer conductor at 20°C		$\Omega/km$	<b>9.2</b>	
Current rating (50 - 60) Hz		A	<b>9</b>	
Dielectric voltage strength		<i>kV</i>	<b>1.5</b>	
Longitudinal attenuation at 20°C		$\alpha(f_{[MHz]}) = a \cdot \sqrt{f_{[MHz]}} + b \cdot f_{[MHz]}$		
	a =	-	0.35	
	b =	-	0.00208	
	5 MHz	<i>dB/100m</i>	<b>1.17</b>	< 1.29
	10 MHz	<i>dB/100m</i>	<b>1.51</b>	< 1.66
	30 MHz	<i>dB/100m</i>	<b>2.36</b>	< 2.60
	50 MHz	<i>dB/100m</i>	<b>2.96</b>	< 3.25
	100 MHz	<i>dB/100m</i>	<b>4.09</b>	< 4.50
	200 MHz	<i>dB/100m</i>	<b>5.75</b>	< 6.32
	300 MHz	<i>dB/100m</i>	<b>7.07</b>	< 7.77
	400 MHz	<i>dB/100m</i>	<b>8.21</b>	< 9.03
	470 MHz	<i>dB/100m</i>	<b>8.95</b>	< 9.84
	600 MHz	<i>dB/100m</i>	<b>10.20</b>	< 11.22
	800 MHz	<i>dB/100m</i>	<b>11.94</b>	< 13.14
	860 MHz	<i>dB/100m</i>	<b>12.43</b>	< 13.68
	1000 MHz	<i>dB/100m</i>	<b>13.53</b>	< 14.88
	1750 MHz	<i>dB/100m</i>	<b>18.66</b>	< 20.53
	2150 MHz	<i>dB/100m</i>	<b>21.08</b>	< 23.19
	2400 MHz	<i>dB/100m</i>	<b>22.52</b>	< 24.77
Return loss (3 peak values up to 4 dB lower are permissible)				
	5 - 470 MHz	<i>dB</i>	<b>&gt; 23</b>	
	470 - 862 MHz	<i>dB</i>	<b>&gt; 20</b>	
Screening attenuation (30 - 1000 MHz)		<i>dB</i>	<b>&gt; 70</b>	
Transfer impedance (5 - 30 MHz)		<i>mΩ/m</i>	<b>&lt; 20</b>	
EN-50117 Screening Class		-	-	

