



<b>Cable type</b>	<b>standard</b>	<b>705CRT5(V)</b>	
<b>Size: 1.02/4.55</b>	<b>aerial</b>	<b>A 705CRT5(V)</b>	
	<b>Units</b>	<b>Nominal</b>	

### Construction

<b>INNER CONDUCTOR</b>			
Material and construction	-	<b>copper wire</b>	
Diameter	mm	<b>1.02</b>	
<b>DIELECTRIC</b>			
Material	-	<b>gas-injected cellular PE</b>	
Diameter	mm	<b>4.55</b>	
<b>OUTER CONDUCTOR</b>			
Material and construction	-	<b>aluminium tape &amp; braid</b>	
Diameter over tape	mm	<b>4.8</b>	
<b>OUTER SHEATH</b>			
Material	-	<b>PE (PVC)</b>	
Thickness	mm	<b>0.8</b>	
Overall diameter	mm	<b>7.0</b>	<b>&lt; 7.4</b>

### Cable with messenger

<b>MESSENGER</b>			
Material	-	<b>AMS</b>	
Construction	.. X mm	<b>1 x 2</b>	
Diameter over messenger	mm	<b>3.5</b>	
<b>OVERALL DIMENSIONS</b>	mm	<b>12/7</b>	

### Mechanical characteristics

<b>Minimum bending radius</b>			
	1 x	cm	<b>3.5</b>
	10 x	cm	<b>7</b>
Maximum pulling strength (without messenger)		daN	<b>10</b>
Weight		kg/km	<b>36</b>

### Cable with messenger

Minimum breaking strength of messenger	daN	<b>100</b>	
Modulus of elasticity	daN/mm <sup>2</sup>	<b>62000</b>	
Thermal coefficient of linear expansion	1/°C	<b>23 x 10<sup>-6</sup></b>	
Weight	kg/km	<b>52</b>	

### Electrical characteristics

Characteristic impedance	Ω	<b>75</b>	<b>+/- 3</b>
Capacity	pF/m	<b>54</b>	
Relative propagation velocity (velocity ratio)	%	<b>82</b>	
DC-resistance of inner conductor at 20°C	Ω/km	<b>20.6</b>	
DC-resistance of outer conductor at 20°C	Ω/km	<b>23.3</b>	
Current rating (50 - 60) Hz	A	<b>5</b>	
Dielectric voltage strength	kV	<b>1</b>	
Longitudinal attenuation at 20°C	$\alpha(f_{[MHz]}) = a \cdot \sqrt{f_{[MHz]}} + b \cdot f_{[MHz]}$		

a =	-		
b =	-		
5 MHz	dB/100m	<b>1.79</b>	<b>&lt; 1.97</b>
10 MHz	dB/100m	<b>2.35</b>	<b>&lt; 2.58</b>
30 MHz	dB/100m	<b>3.75</b>	<b>&lt; 4.13</b>
50 MHz	dB/100m	<b>4.73</b>	<b>&lt; 5.21</b>
100 MHz	dB/100m	<b>6.55</b>	<b>&lt; 7.21</b>
200 MHz	dB/100m	<b>9.16</b>	<b>&lt; 10.08</b>
300 MHz	dB/100m	<b>11.21</b>	<b>&lt; 12.33</b>
400 MHz	dB/100m	<b>12.95</b>	<b>&lt; 14.25</b>
470 MHz	dB/100m	<b>14.05</b>	<b>&lt; 15.46</b>
600 MHz	dB/100m	<b>15.92</b>	<b>&lt; 17.52</b>
800 MHz	dB/100m	<b>18.48</b>	<b>&lt; 20.33</b>
860 MHz	dB/100m	<b>19.19</b>	<b>&lt; 21.11</b>
1000 MHz	dB/100m	<b>20.77</b>	<b>&lt; 22.84</b>

### Return loss (3 peak values up to 4 dB lower are permissible)

5 - 470 MHz	dB	<b>&gt; 20</b>
470 - 862 MHz	dB	<b>&gt; 18</b>

### Screening attenuation (30 - 1000 MHz)

Transfer impedance (5 - 30 MHz)	mΩ/m	<b>&lt; 20</b>
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EN 50117 screening class -