



Cable type **7CW04CRT5(V)-HS**
Size: 0.81/3.6

	Units	Nominal
Construction		
INNER CONDUCTOR		
Material and construction	-	copper clad steel wire
Diameter	mm	0.81
DIELECTRIC		
Material	-	gas-injected cellular PE
Diameter	mm	3.6
OUTER CONDUCTOR		
Material and construction	-	aluminium tape & braid
Diameter over tape	mm	3.8
OUTER SHEATH		
Material	-	PE (PVC)
Thickness	mm	0.8
Overall diameter	mm	6.0 < 6.4

Mechanical characteristics

Minimum bending radius	1 x	cm	3
	10 x	cm	6
Maximum pulling strength		daN	15
Weight		kg/km	41

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	81.5	
DC-resistance of outer conductor at 20°C	Ω/km	11.5	
Current rating (50 - 60) Hz	A	0.4	
Dielectric voltage strength	kV	1	
Longitudinal attenuation at 20°C	$\alpha(f_{[MHz]}) = a \cdot \sqrt{f_{[MHz]}} + b \cdot f_{[MHz]}$		
a =	-	0.78	
b =	-	0.0015	
5 MHz	<i>dB/100m</i>	1.75	< 1.93
10 MHz	<i>dB/100m</i>	2.48	< 2.73
30 MHz	<i>dB/100m</i>	4.32	< 4.75
50 MHz	<i>dB/100m</i>	5.59	< 6.15
100 MHz	<i>dB/100m</i>	7.95	< 8.75
200 MHz	<i>dB/100m</i>	11.33	< 12.46
300 MHz	<i>dB/100m</i>	13.96	< 15.36
400 MHz	<i>dB/100m</i>	16.20	< 17.82
470 MHz	<i>dB/100m</i>	17.61	< 19.38
600 MHz	<i>dB/100m</i>	20.01	< 22.01
800 MHz	<i>dB/100m</i>	23.26	< 25.59
860 MHz	<i>dB/100m</i>	24.16	< 26.58
1000 MHz	<i>dB/100m</i>	26.17	< 28.78
Return loss (3 peak values up to 4 dB lower are permissible)			
5 - 470 MHz	<i>dB</i>	> 20	
470 - 862 MHz	<i>dB</i>	> 18	
Screening attenuation (30 - 1000 MHz)	<i>dB</i>	> 90	
Transfer impedance (5 - 30 MHz)	<i>mΩ/m</i>	< 5	
EN 50117 screening class	-	Class A	