



Cable type **7CW04CRT2(V)**
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	-	copper 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	42

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	11.0	
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 =	-	0.773
	b =	-	0.0015
	5 MHz	dB/100m	1.74 < 1.91
	10 MHz	dB/100m	2.46 < 2.71
	30 MHz	dB/100m	4.28 < 4.71
	50 MHz	dB/100m	5.54 < 6.10
	100 MHz	dB/100m	7.88 < 8.67
	200 MHz	dB/100m	11.23 < 12.36
	300 MHz	dB/100m	13.84 < 15.22
	400 MHz	dB/100m	16.06 < 17.67
	470 MHz	dB/100m	17.46 < 19.21
	600 MHz	dB/100m	19.83 < 21.82
	800 MHz	dB/100m	23.06 < 25.37
	860 MHz	dB/100m	23.96 < 26.35
	1000 MHz	dB/100m	25.94 < 28.54
Return loss (3 peak values up to 4 dB lower are permissible)			
	5 - 470 MHz	dB	> 20
	470 - 862 MHz	dB	> 18
Screening attenuation (30 - 1000 MHz)		dB	> 85
Transfer impedance (5 - 30 MHz)		m Ω/m	< 5
EN 50117 screening class		-	Class A