



Cable type Standard: **7CW04CRT5V-HS**
Size: 0.81/3.5

Cable with PVC jacket. Reaction to fire according to EN 60332-1-2 E_{ca}.
Compliant to EN 50575.

	Units	Nominal
Construction		
INNER CONDUCTOR		
Material and construction	-	copper clad steel wire
Diameter	mm	0.81
DIELECTRIC		
Material	-	gas-injected cellular PE
Diameter	mm	3.50
OUTER CONDUCTOR		
Material and construction	-	alu tape & tinned copper braid
Diameter over tape	mm	3.80
OUTER SHEATH		
Material	-	grey PVC
Thickness	mm	0.8
Overall diameter	mm	6 <6.2

Mechanical characteristics

Minimum bending radius			
	1 x	cm	3.0
	10 x	cm	6.0
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	0.5	
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	dB/100m	1.75 < 1.93
	10 MHz	dB/100m	2.48 < 2.73
	30 MHz	dB/100m	4.32 < 4.75
	50 MHz	dB/100m	5.59 < 6.15
	100 MHz	dB/100m	7.95 < 8.75
	200 MHz	dB/100m	11.33 < 12.46
	300 MHz	dB/100m	13.96 < 15.36
	400 MHz	dB/100m	16.20 < 17.82
	470 MHz	dB/100m	17.61 < 19.38
	600 MHz	dB/100m	20.01 < 22.01
	800 MHz	dB/100m	23.26 < 25.59
	860 MHz	dB/100m	24.16 < 26.58
	1000 MHz	dB/100m	26.17 < 28.78
	1750 MHz	dB/100m	35.25 < 38.78
	2150 MHz	dB/100m	39.39 < 43.33
	2400 MHz	dB/100m	41.81 < 45.99
Return loss (3 peak values up to 4 dB lower are permissible)			
	10 - 470 MHz	dB	> 20
	470 - 862 MHz	dB	> 18
	862 - 1200 MHz	dB	> 16
Screening attenuation (30 - 1000 MHz)		dB	> 95
Transfer impedance (5 - 30 MHz)		mΩ/m	< 2.5
EN-50117 Screening Class		-	Class A+