



Cable type Standard: **705CRT2V**
Size: 1.00/4.65

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 wire
Diameter	mm	1.00
DIELECTRIC		
Material	-	gas-injected cellular PE
Diameter	mm	4.65
OUTER CONDUCTOR		
Material and construction	-	copper tape & copper braid
Diameter over tape	mm	4.80
OUTER SHEATH		
Material	-	grey PVC
Thickness	mm	0.8
Overall diameter	mm	7.00 <7.2

Mechanical characteristics			
Minimum bending radius			
	1 x	cm	2.0
	10 x	cm	4.0
Maximum pulling strength		daN	10
Weight		kg/km	56

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	21.9
DC-resistance of outer conductor at 20°C		Ω/km	8.9
Current rating (50 - 60) Hz		A	5
Dielectric voltage strength		kV	1.0
Longitudinal attenuation at 20°C		$\alpha(f_{[MHz]}) = a \cdot \sqrt{f_{[MHz]}} + b \cdot f_{[MHz]}$	
	a =	-	0.598
	b =	-	0.0015
	5 MHz	dB/100m	1.34 < 1.41
	10 MHz	dB/100m	1.91 < 2.00
	30 MHz	dB/100m	3.32 < 3.49
	50 MHz	dB/100m	4.30 < 4.52
	100 MHz	dB/100m	6.13 < 6.44
	200 MHz	dB/100m	8.76 < 9.19
	300 MHz	dB/100m	10.81 < 11.35
	400 MHz	dB/100m	12.56 < 13.19
	470 MHz	dB/100m	13.67 < 14.35
	600 MHz	dB/100m	15.55 < 16.33
	800 MHz	dB/100m	18.11 < 19.02
	860 MHz	dB/100m	18.83 < 19.77
	1000 MHz	dB/100m	20.41 < 21.43
	1750 MHz	dB/100m	27.64 < 29.02
	2150 MHz	dB/100m	30.95 < 32.50
	2400 MHz	dB/100m	32.90 < 34.54

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+