



DATA SHEET
RG coaxial cable

Kabelwerk | **EUPEN** AG

RG 58C/U - Rev. 1 - 20.03.07

cable

RG 58 C/U



	Units	Nominal
INNER CONDUCTOR		
Material	-	tinned copper wire
Construction	-	19 x 0,18 mm
Diameter	mm	0.9
DIELECTRIC		
Material	-	solid polyethylene
Diameter	mm	2.95
OUTER CONDUCTOR		
Material	-	tinned copper wire
Construction	-	single braid
Diameter over outer conductor	mm	3.5
OUTER SHEATH		
Material	-	black PVC
Overall diameter	mm	5

ELECTRICAL CHARACTERISTICS		
Characteristic impedance	Ω	50 +/- 2
Capacity	pF/m	100
Relative propagation velocity (velocity ratio)	%	66
DC-resistance of inner conductor	Ω/km	37.5
DC-resistance of outer conductor	Ω/km	16.5
Longitudinal attenuation at 20°C		
a =	-	1.287
b =	-	0.01095
5 MHz	dB/100m	2.93
25 MHz	dB/100m	6.71
50 MHz	dB/100m	9.65
145 MHz	dB/100m	17.09
200 MHz	dB/100m	20.39
300 MHz	dB/100m	25.58
435 MHz	dB/100m	31.61
900 MHz	dB/100m	48.47
1250 MHz	dB/100m	59.19
1500 MHz	dB/100m	66.27
1700 MHz	dB/100m	71.68
1800 MHz	dB/100m	74.31
2200 MHz	dB/100m	84.46
2400 MHz	dB/100m	89.33
2500 MHz	dB/100m	91.73

MECHANICAL CHARACTERISTICS		
Bending radius	- Minimum (1 x)	cm 2.5



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