



DATA SHEET
RG coaxial cable

Kabelwerk | **EUPEN** AG
cable

RG 59B/U - Rev. 1 - 20.03.07

RG 59 B/U



	Units	Nominal
INNER CONDUCTOR		
Material	-	copper-covered steel wire
Construction	-	1 x 0.58
Diameter	mm	0.58
DIELECTRIC		
Material	-	solid polyethylene
Diameter	mm	3.7
OUTER CONDUCTOR		
Material	-	copper wire
Construction	-	single braid
Diameter over outer conductor	mm	4.3
OUTER SHEATH		
Material	-	black PVC
Overall diameter	mm	6.2

ELECTRICAL CHARACTERISTICS		
Characteristic impedance	Ω	75 +/- 3
Capacity	pF/m	67
Relative propagation velocity (velocity ratio)	%	66
DC-resistance of inner conductor	Ω/km	158
DC-resistance of outer conductor	Ω/km	9
Longitudinal attenuation at 20°C		
a =	-	1.01
b =	-	0.00623
5 MHz	dB/100m	2.29
10 MHz	dB/100m	3.26
30 MHz	dB/100m	5.72
50 MHz	dB/100m	7.45
100 MHz	dB/100m	10.72
200 MHz	dB/100m	15.53
300 MHz	dB/100m	19.36
400 MHz	dB/100m	22.69
470 MHz	dB/100m	24.82
600 MHz	dB/100m	28.48
800 MHz	dB/100m	33.55
860 MHz	dB/100m	34.98
1000 MHz	dB/100m	38.17

MECHANICAL CHARACTERISTICS		
Bending radius	- Minimum (1 x)	cm
		3

