

**DATA SHEET**

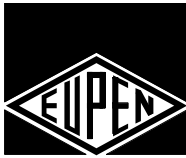
**50Ω - LOW LOSS**

**CONSTRUCTION:**

		<b>58RT5V LOW LOSS</b>	<b>213RT5V LOW LOSS</b>
Inner conductor	Material Diameter	Copper wire	
		1.05 mm	2.7 mm
Dielectric	Material Diameter	Gas injected cellular (foam) polyethylene	
		2.95 mm	7.15 mm
Outer conductor	Material and constr. Diameter	Aluminium tape + tinned copper braid	
		3.5 mm	7.9 mm
Outer sheath	Material	PVC	PVC
	Diameter	4.9 mm	10.1 mm
	Minimum thickness	0.7 mm	1.1 mm

**ELECTRICAL CHARACTERISTICS:**

Characteristic impedance	50 ± 2Ω	50 ± 2Ω
Velocity ratio	82 %	82 %
Capacitance	82 pF/m	82 pF/m



	<b>58RT5V LOW LOSS</b>	<b>213RT5V LOW LOSS</b>
Nominal attenuation at 20°C	dB/100m	dB/100m
10 MHz	4.4	1.7
50 MHz	8.1	3.35
100 MHz	10.5	4.3
200 MHz	14.4	5.9
300 MHz	17.9	7.2
450 MHz	22.4	8.9
900 MHz	33.0	12.9
1000 MHz	35.0	13.6
1800 MHz	49.3	18.8
2000 MHz	52.5	19.9
2400 MHz	58.5	22.0
3000 MHz	67.0	24.9
<p>The nominal attenuation (at 20°C) at the frequency f can be approximately calculated by the formula:  <math>\alpha_{20}(f)[dB/100m] = a \cdot \sqrt{f[MHz]} + b \cdot f[MHz]</math></p>		
Attenuation coefficients	10 - 3000 MHz	200 - 3000 MHz
a =	0.95	0.4
b =	0.005	0.001

***MECHANICAL CHARACTERISTICS:***

Minimum bending radius	25 mm	50 mm
Weight	40 kg/km	133 kg/km