

## RF5078(Z) 7/8"

### PRODUCT DESCRIPTION



- The high-performance of attenuation allows coaxial cable to be used in different RF systems, such as 3G, 4G mobile communication.
- Wide range of applications, such as indoor distribution, broadcast, various base stations, wireless cellular, and others.
- Lower VSWR, perfect shielding effectiveness, and extraordinary inter-modulation performance lead to fewer energy loss and outer interference.

### CONSTRUCTION

Inner conductor	Copper tube	$\Phi 8.81 \pm 0.03 \text{mm}$
Insulation	Physically foamed PE	$\Phi 22.50 \pm 0.40 \text{mm}$
Outer conductor	Ring corrugated copper	$\Phi 24.90 \pm 0.30 \text{mm}$
Jacket		$\Phi 27.30 \pm 0.30 \text{mm}$
Jacket material	Black PE (CPR Fca)	

### MECHANICAL PROPERTIES

Min. single bending radius	mm	120
Min. repeated bending radius	mm	250
Max. tensile force	N	1470
Recommended maximum clamp spacing	m	1

### ELECTRICAL PROPERTIES

Impedance	$\Omega$	$50 \pm 1$
Nominal capacitance	pF/m	75
Nominal inductance	$\mu\text{H/m}$	0.19
Nominal Propagation velocity	%	86
DC breakdown voltage	kV	6
Insulation resistance	$\text{M}\Omega \cdot \text{km}$	>5000
Peak power rating	kW	91
Cut-off frequency	GHz	5

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### TRANSMISSION PROPERTIES

Frequency MHz	Attenuation @20°C, dB/100m(dB/100ft)	Power @40°C, kW
100	1.19(0.36)	7.56
450	2.65(0.81)	3.41
690	3.35(1.02)	2.85
800	3.63(1.11)	2.48
900	3.88(1.18)	2.33
1000	4.12(1.26)	2.19
1800	5.75(1.75)	1.57
2000	6.11(1.86)	1.48
2200	6.45(1.97)	1.41
2400	6.79(2.07)	1.34
2500	6.95(2.12)	1.30
2600	7.12(2.17)	1.27
2700	7.28(2.22)	1.25
3000	7.76(2.37)	1.16

Attenuation values may be with a tolerance of 5%.

### VSWR

800~1000MHz	1.12
1700~2200MHz	1.12
2300~2400MHz	1.12
2500~2700MHz	1.15

### ENVIRONMENTAL PROPERTIES

2011/65EU(ROHS)	compliant
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#### Your dealer:



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