



Order Information		
Item No.:	RF50-7/8 CABLE	
Series No.	S1008	
Cable Structure		
Inner conductor	Copper tube	φ 9.0±0.05mm
Insulation	Foamed polyethylene	φ 22.40±0.30mm
Outer conductor	Annular corrugated copper tube	φ 24.90±0.20mm
Jacket	PE black	φ 27.50±0.25mm
Mechanical Properties		
Min. single bending radius	120mm	
Min. reapeted bending radius	250mm	
Tensile force	1400 N	
Cable weight	400 kg/km	
Electrical properities		
Max DC resistance (Inner conductor)	2.15 Ω/km	
Max DC resistance (Outer conductor)	2.10 Ω/km	
Impedance	50 Ω	
Nominal capacitance	76 pF/m	
Propagation velocity	88%	
Dielectric strength	10.0 KV	
Peak Voltage	3200 V	
Insulation Resistance	> 1 x 10 ⁴ MΩ.km	
Cut-off frequency	5.2 Ghz	
Peak Power Rating	90 KW	

Environmental properties

Storage temperature -70 ~ +85 °C

Installation temperature -40 ~ +60 °C

Operation temperature -55 ~ +85 °C

VSWR & PIM

VSWR @800Mhz-1000Mhz ≤ 1.10

VSWR @1700Mhz-2500Mhz ≤ 1.13

VSWR @2500Mhz-3000Mhz ≤ 1.15

PIM (3rd order, 2*20w) ≤ -160 dBc

Attenuation

Frequency (Mhz)	Attenuation (dB/100m)	Power(kW)
200	1.69	6.27
450	2.65	3.73
800	3.64	2.49
900	3.86	2.34
1000	4.13	2.19
1500	5.21	2.01
1800	5.76	1.73
2000	6.12	1.64
2200	6.46	1.40
2500	6.97	1.34
3000	7.76	1.16

※ Attenuation values may be with a tolerance of 5%.

※ Attenuation, VSWR 1.0 Ambient Temperature 20°C

※ Average Power, VSWR 1.0 Ambient Temperature 40°C

※ Average Power, Inner Conductor Temperature 100°C