

**Order Information**

Item No.: **RF50-7/8 CABLE**

Series No. **S1008**

Cable Structure

Inner conductor	Copper tube	$\varnothing 9.0 \pm 0.05 \text{mm}$
Insulation	Foamed polyethylene	$\varnothing 22.40 \pm 0.30 \text{mm}$
Outer conductor	Annular corrugated copper tube	$\varnothing 24.90 \pm 0.20 \text{mm}$
Jacket	PE black	$\varnothing 27.50 \pm 0.25 \text{mm}$

Mechanical Properties

Min. single bending radius	120mm
Min. repeated bending radius	250mm
Tensile force	1400 N
Cable weight	400 kg/km

Electrical properties

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	$> 1 \times 10^4 \text{ M}\Omega.\text{km}$
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