Product Specification			Hansen
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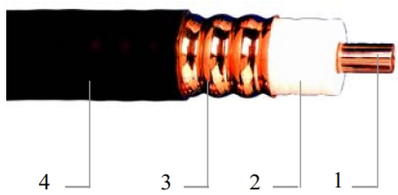
7/8″ low loss physical foamed insulation coaxial cable
RF 50 7/8″

Description		TYPE No.	PART No.
Standard cable		RF5078	3110801
Fire retardant cable		RF5078 Z	3110802
Construction			
Inner Conductor	Material	Smooth copper tube	
	Diameter, mm	8.90±0.10	
Insulation	Material	Physically foamed PE	
	Diameter, mm	22.50±0.40	
Outer conductor	Material	Ring corrugated copper	
	Diameter, mm	24.90±0.30	
Jacket	Material	PE or fire retardant PE	
	Diameter, mm	27.30±0.20	
Mechanical properties			
Bending radius, mm	Single Repeated Moving	120 250 500	
Pulling strength, N		1470	
Crush resistance, kg/mm		1.4	
Recommended temperature ,℃	Store Installation Operation	-70~+85 -40~+60 -55~+85	
Electrical properties			
Inner conductor DC resistance, Ω/km		1.50	
Outer conductor DC resistance, Ω/km		1.35	
Impedance, Ω		50±1	
Inductance,μH/m		0.187	
Capacitance, PF/m		75	
Propagation velocity, %		88	
DC breakdown voltage, kV		6.0	
Insulation resistance, MΩ•km		>5×10^3	
Peak power, kW		91	
Screening attenuation, dB		>>120	
Cut-off frequency, GHz		5.0	



1: Inner Conductor 2: Insulation
3: Outer conductor 4: Jacket

Figure 8:RF50 7/8″ coaxial cable

Attenuation and average power		
Frequency MHz	Nom. attenuation @20℃,dB/100m	Power rate @20℃,kW
10	0.366	24.6
100	1.19	7.56
450	2.65	3.41
800	3.63	2.48
900	3.88	2.33
1000	4.12	2.19
1500	5.18	1.74
1800	5.75	1.57
2000	6.11	1.48
2500	6.95	1.30
3000	7.76	1.16
• Maximum attenuation value shall be 105% of the nominal attenuation value		

VSWR	
806~960MHz	≤1.15
1700~2200MHz	≤1.15
5~3000MHz	≤1.25

Note:

- For fire retardant jacket, recommended temperatures are:
  Store temperature -30~+80℃
  Installation temperature -25~+60℃
  Operation temperature -30~+80℃
- This cable is RoHS compliant. As a statement of RoHS compliant, you can find the label below on our product package.

RoHS