

7/8" low loss physical foamed insulation coaxial cable
RF 50 7/8"

RoHS compliant

Description	TYPE No.	PART NO.
Standard cable	RF5078	06.078.C00-007
Fire retardant cable	RF5078 Z	06.078.C00-007/FR

Construction		
Inner Conductor	Material	Smooth copper tube
	Diameter, mm	8.95±0.05
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	120
	Repeated	250
	Moving	500
Pulling strength, N		1470
Crush resistance, kg/mm		1.4
Recommended temperature, °C	Store	-70~+85
	Installation	-40~+60
	Operation	-55~+85

Electrical properties	
Impedance, Ω	50 ± 1
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



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

Attenuation and average power		
Frequency MHz	Nom. attenuation @20°C, dB/100m	Power rate @20°C, kW
10	0.366	24.6
100	1.19	7.56
200	1.72	5.26
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	
800~1000MHz	≤1.15
1700~2200MHz	≤1.15
5~3000MHz	≤1.25

Note:

- For fire retardant cable, recommended temperatures are:

Store temperature -30~+80°C
 Installation temperature -25~+60°C
 Operation temperature -30~+80°C

Meet the IEC requirements according to:

IEC 60754-1/2 : smoke emission ; halogen free ; no corrosive
 IEC 60332-1 : flame retardant
 IEC 61034 low smoke