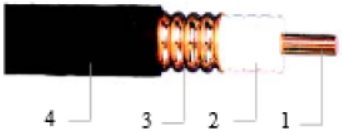
WORLD HEADQUARTERS
3rd Floor, 207 Regent Street
London, W1B 3HH, UK
Tel: +44-7787856914
E-Mail: sales@frogcellsat.com
Web: www.frogcellsat.com

Feeder Cable (RF5012 Z) FR-FC3000-12-6C-0Z

1/2″ low loss physical foamed insulation coaxial cable

RF 50 1/2″



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

Description	TYPE No.	PART No.
Standard cable	RF5012	3110601
Fire retardant cable	RF5012 Z	3110602

Construction		
Inner Conductor	Material	Copper clad aluminum wire
	Diameter, mm	4.80±0.05
Insulation	Material	Physically foamed PE
	Diameter, mm	12.20±0.30
Outer conductor	Material	Ring corrugated copper
	Diameter, mm	13.80±0.20
Jacket	Material	PE or fire retardant PE
	Diameter, mm	15.80±0.20

Mechanical properties		
Bending radius , mm	Single	70
	Repeated	125
	Moving	350
Pulling strength, N		1130
Crush resistance, kg/mm		2.0
Recommended temperature , ℃	Store	-70~+85
	Installation	-40~+60
	Operation	-55~+85

©2018 Frog Cellsat
www.frogcellsat.com
This document is subject to change without notice.

INDIA HEADQUARTERS
Frog Cellsat Limited,
D-213, Sector 63,
NOIDA - 210301,
Uttar Pradesh, India
Tel: +91-120-4859650

MANUFACTURING UNIT
Khasra No.142 Kha and Ga,
Mohabewala Industrial Area
Dehradun-248110,
Uttarakhand, India
Tel: +91-135-2640366

WORLD HEADQUARTERS
3rd Floor, 207 Regent Street
London, W1B 3HH, UK
Tel: +44-7787856914
E-Mail: sales@frogcellsat.com
Web: www.frogcellsat.com

Electrical properties	
Inner conductor DC resistance, Ω/km	1.60
Outer conductor DC resistance, Ω/km	2.10
Impedance, Ω	50±1
Capacitance, PF/m	75.8
Inductance, μH/m	0.19
Propagation velocity, %	88
DC breakdown voltage, kV	4.0
Insulation resistance, MΩ•km	$>5\times10^3$
Peak power, kW	40
Screening attenuation, dB	>>120
Cut-off frequency, GHz	8.8

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

Attenuation and average power		
Frequency MHz	Nom. attenuation @20℃,dB/100m	Power rate @20℃,kW
10	0.67	11.30
100	2.17	3.49
200	3.10	2.44
450	4.75	1.59
800	6.46	1.17
900	6.85	1.10
1000	7.28	1.04
1500	9.09	0.833
1800	10.10	0.753
2000	10.70	0.710
2300	11.50	0.627
3000	13.40	0.565
• Maximum attenuation value shall be 105% of the nominal attenuation value		

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

©2018 Frog Cellsat
www.frogcellsat.com
This document is subject to change without notice.

INDIA HEADQUARTERS
Frog Cellsat Limited,
D-213, Sector 63,
NOIDA - 210301,
Uttar Pradesh, India
Tel: +91-120-4859650

MANUFACTURING UNIT
Khasra No.142 Kha and Ga,
Mohabewala Industrial Area
Dehradun-248110,
Uttarakhand, India
Tel: +91-135-2640366