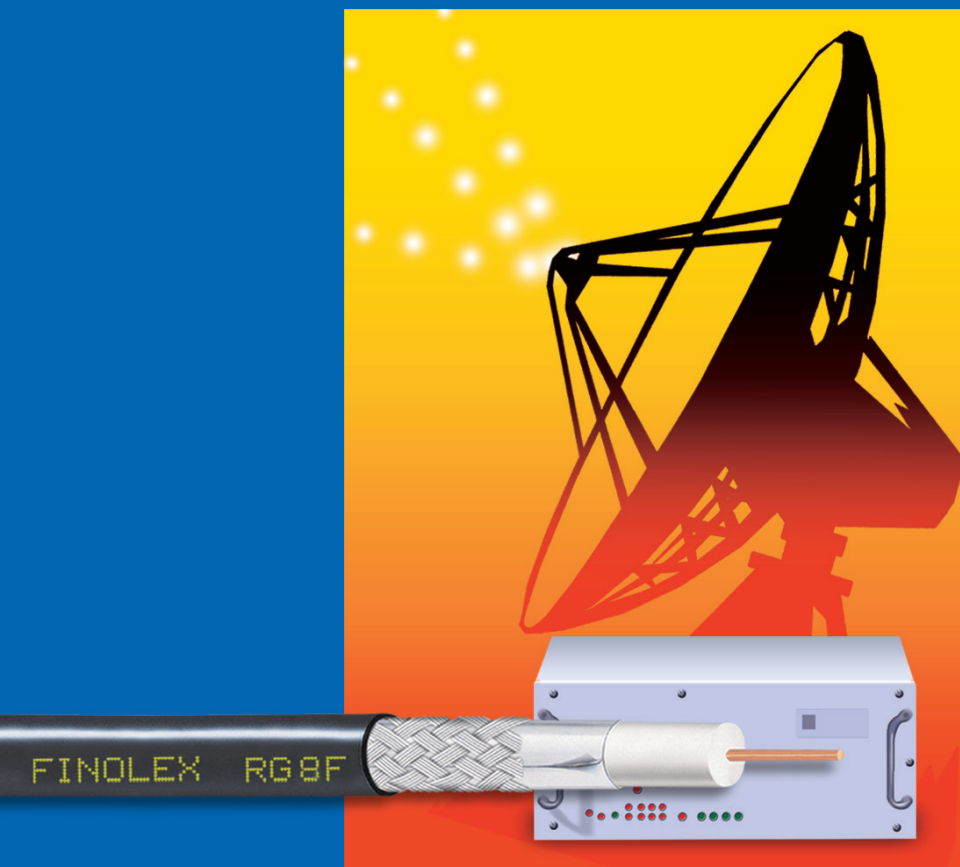


Finolex

For VSAT Networks



An IS/ISO 9001 Company

Co-Axial Cables



VSAT NETWORKS

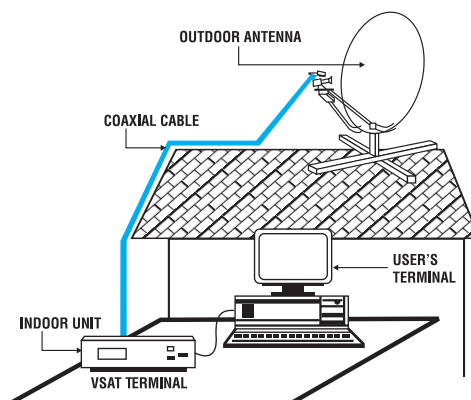
Today, communication in remote areas is gaining more importance. VSAT networks offer the most cost effective solution for such communication needs. Here, the user's terminal can be connected to a remote office via the VSAT network. Hence day-to-day business communications, such as high quality telephone calls, conferencing, high speed fax transmission, e-mail and more can be done with great convenience. These remote offices can also have high speed data connections that use the satellite to transmit voice and data services.

In VSAT networks the cable that connects the Dish to Receiver and the Network Control Centre must be reliable and of high quality. The cables used are of two types 75-ohm impedance and 50-ohm impedance. The cables available in 75-ohm impedance are of RG-6F and RG-11F types and that in 50-ohm impedance are of RG-8F and RG-213F types.

GAS INJECTED PHYSICAL FOAM CO-AXIAL CABLES FOR VSAT NETWORKS

Finolex co-axial cables are ideal for use in VSAT and Cable TV networks. They are designed for optimum performance and value for money. In VSAT networks Finolex co-axial cables provide complete reliability. This means instant, secure communications, without any breakdown.

Finolex co-axial cables have the centre conductor of solid stranded bare electrolytic grade 99.97% pure copper. The secondary conductor is specially designed with polyaluminium tape, applied longitudinally which overlaps and is bonded on the foam dielectric. Aluminium alloy wires with high tensile strength are braided and applied over the aluminium tape with specified coverage. The cable is then jacketed with a special long lasting UV resistant PVC compound that is formulated and manufactured in-house.



TYPICAL VSAT SETUP

With 50 Ohm impedance

PARAMETERS	RG 8F	RG 213F
A. CONSTRUCTION		
1 Inner Conductor	Solid Bare Copper 2.70	Stranded Bare Copper 2.25 (7x0.75 mm)
2 Nominal Conductor Diameter (mm)		
3 Dielectric	Foam PE	Foam PE
4 Nominal Dielectric Diameter (mm)	7.20	4.90
5 First Outer Conductor	Bonded Al Tape	Bonded Al Tape
6 Second Outer Conductor	Al Alloy Braid	Al Alloy Braid
7 Nominal Coverage (%)	90	95
8 Jacket	PVC (Black)	PVC (Black)
9 Nominal Jacket Diameter (mm)	10.30	7.40
10 Bending radius, Minimum (mm)	100	75
B. ELECTRICAL		
1 Nominal Capacitance (pf/mtr.)	78	100
2 Nominal Impedance (Ohm)	50	50
3 Nominal Velocity Ratio (%)	66	66
C. ATTENUATION (@ 20°C)		
FREQUENCY MHz	dB/100m Max.	dB/100m Max.
50	3.39	3.94
100	4.34	7.55
400	9.18	15.75
500	9.84	-
1000	13.94	29.53

With 75 Ohm impedance

PARAMETERS	RG 6F	RG 11F
A. CONSTRUCTION		
1 Inner Conductor	Solid Bare Copper 1.02	Solid Bare Copper 1.63
2 Nominal Diameter (mm)		
3 Dielectric	Foam PE	Foam PE
4 Nominal Dielectric Diameter (mm)	4.57	7.11
5 First Outer Conductor	Bonded Al Tape	Bonded Al Tape
6 Second Outer Conductor	Al Alloy Braid	Al Alloy Braid
7 Nominal Coverage (%)	60	60
8 Jacket	PVC (Black)	PVC (Black)
9 Nominal Diameter (mm)	7.0	10.0
10 Bending radius, Minimum (mm)	65	75
B. ELECTRICAL		
1 Nominal Capacitance (pf/mtr.)	53	53
2 Nominal Impedance (Ohm)	75	75
3 Nominal Velocity Ratio (%)	85	85
C. ATTENUATION (@ 20°C)		
FREQUENCY MHz	dB/100m Max.	dB/100m Max.
55	5.20	3.15
83	6.20	3.87
400	13.30	8.53
500	14.95	9.51
1000	21.45	14.27