

Cable Sets Application Guidelines - By Cable Types

SN	Cable Type	Trade Name	Frequency	Applications	Our Remarks
1	Corrugated Cables (Foam dielectric)	Andrews Heliax LDF-1, LDF-4 RFS LCF12-50, LCF14-50, SCF12-50	DC ~ 6 GHz	Typically used in Long Antenna Runs. Reason is that the corrugated structure and dielectric leads to VERY LOW LOSS and High Power levels. Examples are shipborne radars where the antenna is mounted high up from the control unit. Another example is Antennas of Satcom Ground Stations. Typical Sizes are 1/2" or 3/8". Andrews LDF4-50, LDF1-50, LDF5-50 are commonly used types. These score over normal RG types as they have 50% less loss than RG types. Negative side is that these cables are like semi-rigid cables, hard to bend. Routing is a nightmare.	LL Series are an IDEAL replacement for corrugated types. They exhibit same power handling and similar loss data as Heliax Corrugated types. However these are relatively flexible types as compared to Heliax types. LL40 is equivalent to LDF-1 of Andrews and LL60 is equivalent to LDF4-50 of Andrews. Our Advantage: We can offer cable assembly immediately for LL40 as sample types. We stock LL60 Cable and high quality N (M) and N(F) Connectors.
2	LL Series	Our LL58 Our LL40 Our LL60	DC ~ 6 GHz	Ideal replacement for Heliax types in Antenna runs, feeder cable etc. Good choice where customer needs general purpose RG type cable. LL Series have following advantages over RG types. 1. Shielding effectiveness of RG types is <60dB whereas for LL series is > 90dB 2. Attenuation loss is 25% lower and at lower price	LL 40 -----> RG213/214 LL 58 -----> RG142/223 LDF1-50 1/4" -----> LL40 LDF4-50 1/2" -----> LL60 LCF14-50 1/4" -----> LL40 LCF12-50 1/2" -----> LL60
3	Semi-Flexible Triple Shielded Hi-Performance Ultra Low Loss	Radiall SHF series Micro Coax UFB Semiflex HP series H&S Sucoflex ULL04 Series	DC~18 GHz	Considered ultimate in performance. Cables of choice for military radar systems & aerospace applications. Have low density PTFE dielectric, usually triple shielded. Features: - Phase Stable with time, temperature and flexures - Ultra Low Loss for DC ~ 18 GHz seamless usage	We offer cable assemblies based on Semi-Flexible Triple Shielded with quick deliveries. Connectors are high end MIL types meeting MIL-PRF-39012
4	Flexible alternatives to semirigid	Our MF02/05 Habia 'Multibend' Semiflex 'SM' H&S 'Multiflex'	DC~18 GHz	These are flexible alternatives to semi-rigid. Have similar electrical characteristics as semi-rigid. Advantage over semi-rigid is that these are flexible and can be routed easily.	In many applications, semi-rigid types can be substituted with flexible alternatives. We offers readymade such flexible cable assemblies.
5	Semi-rigid	RG402 (0.141") RG405 (0.085")	DC~18 GHz DC~40 GHz	Semi-rigid are still cables of choice for military and defense system. Their electrical properties are consistent with time. Once bent they retain their shape. Environmentally stable	We offer RG402 semi-rigid with fast delivery and as per customer's geometries.
6	RG MIL-C-17	RG223, RG58, RG214, RG213, RG400	DC ~ 6 GHz	RG have been around for a long time, were the first MIL cables. We offer such economical MIL pedigree cable assemblies. Nevertheless now a days FAR SUPERIOR ALTERNATIVES to RG Cables are available.	We provide common RG cable assemblies like RG223, RG142, RG214 etc. We do not recommend RG cables since better types with lower loss and higher shielding are available at similar price levels. These include LL Series and Semiflexible types.

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