replacement for Corrugated and RG214





APPLICATIONS

- Long run antenna feeders
- Radars, ESM, ELINT systems
- · Ideal 'flexible' replacement for corrugated cables like Heliax (same electrical properties)
- RF Shielding is 90 dB. This is 30dB higher than 60dB (typical) for single shielded RG types.
- Flexibility: LL60 series are quite flexible as compared to comparable corrugated types. Whereas it is quite difficult to route and bend corrugated cables, LL60 series can be routed easily between connection points.

Electrical Specifications

LL60 series cable sets are flexible alternative to corrugated cables. Usable upto 6 GHz. These are typically used in long antenna runs where low loss is of prime importance. Traditionally corrugated cables have been used for such applications. LL60 now offers an attractive alternative to corrugated due to higher flexibility as compared to corrugated types. The RF/electrical parameters of LL60 and corresponding corrugated types are similar.

> Equivalent to RFS LCF12-50 and Andrews LDF4-50

 Ideal replacement for corrugated types for advantage of FLEXIBILITY

CABLE CONSTRUCTION



Mechanical Specifications

•	
Inner Conductor	BCCAI, 4.5mm dia.
Dielectric	PE, Foamed
Outer Conductor	Aluminium Tape
Braid	Tinned Cooper
Jacket	Black PE, 15mm dia.
Bend Radius: installation	80 mm
Weight	0.20 kg/m
	Inner Conductor Dielectric Outer Conductor Braid Jacket Bend Radius: installation Weight

Attenuation & Power Handling Data

Frequency (GHz)	0.03	0.05	0.15	0.22	0.45	0.9	1.5	1.8	2	2.5	5.8
Attenuation dB/100 ft	0.5	0.6	1.1	1.4	1.8	2.7	3.5	3.9	3.9	4.6	7.5
Attenuation dB/100 m	1.6	1.9	3.5	3.9	5.8	8.5	10.9	12.3	12.9	14.7	23.9
Average Power Watt	5500	4220	2400	1930	1300	900	690	600	570	500	300

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Impedance

Capacitance

Frequency Range

Velocity of Propagation

Shielding Effectiveness

Operating Temperature

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Return Loss of 10m, LL60 Cable Set with N(M) on both sides

Insertion Loss of 10m, LL60 Cable Set with N(M) on both sides



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	LL60 -	(Length) □ □ - L L	(Connector 1) (□ /□) □ - 1 2 3	(Connector 2) (□/□)□ - □ 1 2 3 U
LL	Length		0.5 = 0.5 ; 1 = 1.0	; 2 = 2.0
1	Connector S	eries	N = N	
2	Male/Female Designator		M = Male	
3	Orientation of	of Connector	ST = Straight	
U	Unit of Lengt	th	M = Meter ; F = Fe	et

Ordering Codes Description

10 meter LL60 cable set with N(Male) on both sides = LL60-10-N(M/ST)-N(M/ST)-M

Connectors for LL60 Series Cable Sets



Cable Set Ordering Codes

							Insertion Loss (dB) Typical					
Ordering Code	Conn 1	Conn 2	Length	500 MHZ	1 GHZ	2 GHz	3 GHz	4 GHz	5 GHz			
N (Male) Straight - N (Male) Straight (DC to 6 GHz)												
LL60-1.0-N(M/ST)-N(M/ST)-M	N(M)	N(M)	1m	0.17	0.24	0.33	0.41	0.48	0.54			
LL60-2.0-N(M/ST)-N(M/ST)-M	N(M)	N(M)	2m	0.23	0.32	0.46	0.57	0.67	0.75			
LL60-3.0-N(M/ST)-N(M/ST)-M	N(M)	N(M)	3m	0.29	0.41	0.59	0.74	0.86	0.98			
LL60-5.0-N(M/ST)-N(M/ST)-M	N(M)	N(M)	5m	0.41	0.59	0.84	1.06	1.24	1.41			
LL60-10.0-N(M/ST)-N(M/ST)-M	N(M)	N(M)	10m	0.71	1.11	1.48	1.86	2.19	2.49			
LL60-30.0-N(M/ST)-N(M/ST)-M	N(M)	N(M)	30m	1.90	2.76	4.02	5.08	5.99	6.83			
LL60-50.0-N(M/ST)-N(M/ST)-M	N(M)	N(M)	50m	3.09	4.60	6.56	7.90	9.80	10.9			

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Specifications for Flexible Low Loss Cable Assemblies for Outdoor use

Length	Connector 1	Connector 2
_og		

- Should be flexible and bendable, easily routable & non-kink type
 Cable should conform to MIL-C-17, Connectors to MIL-PRF-39012

Cable Electrical Specifications

•	Frequency of Usage	:	DC~6 GHz
•	Shielding Effectiveness	:	90 dB or better
•	Velocity of Propagation	:	> 86 %
•	Impedance	:	50 ohms
•	Capacitance	:	76.7 pF/m
•	Power (Average)	:	> 500 W @ 2 GHz
•	Loss	:	< 0.14 dB/meter @ 2 GHz
•	VSWR	:	< 1.3 (DC~6 GHz) for straight connectors
Cab	ole Construction		
•	Outer Diameter	:	< 15.5 mm
•	Centre conductor	:	Solid BCCAI
•	Dielectric	:	Foamed Polyethylene
•	Outer conductor	:	Aluminium Tape
•	Overall braid	:	Tinned Copper
•	Jacket	:	Black Polyethylene
•	Strain Relief	:	Reliable strain relief at the cable to connector joint should be provided. A double strain relief with progressive stress distribution is preferred

Cable Mechanical and Environmental Specifications

•	Weight	:	< 0.22 (kg/meter)
•	Bend Radius	:	< 80 mm

•	Working Temperature	:	-40°C to + 85°C
		-	

Connectors Specifications

•	Attachment Method	:	Inner Solder, Outer Crimp/Clamp
•	Frequency Range	:	DC~6 GHz
•	Material	:	Brass with Nickel alloy plating