

ELECTRONIC AND SPECIALTY CABLES

05606 LL - 600 Series

Broadband Communications Cable

Standard Outdoor



Common Applications:

Benelec LM-600 cable is available in Standard Outdoor constructions. LM-600 is a flexible low loss RF Cable that is used for Jumper Assemblies in Wireless Communications Systems, Antenna Feeder Runs any application requiring a Low Loss RF Cable (e.g. LMR, WLL, Paging, PCS and Cellular)

Construction:

- Conductor: Solid Bare Copper Clad Aluminum; OD: .176" Nom. (4.47mm)
- Insulation: Gas Injected Foamed Polyethylene; OD: .455" Nom. (11.56mm)
- Shield 1: Bonded Aluminum / Polyester / Aluminum Tape; 100% Coverage
- Shield 2: Tinned Copper Braid; 90% Minimum Coverage
- Jacket: See part number table
- OD: .590" Nom. (14.99mm)
- Markings: Surface printed

Part Number Table:

Catalog No.	Part No.	Description	Jacket	Ratings
LM-600	05606	Std Outdoor	.050" Wall Black Polyethylene	N/A

Agency Approvals
When Applicable:

UL Standard 444 and NEC Article 800 Type CMR
UL Standard 820 and NEC Article 820 Type CATVR
and CSA c(UL)

Flame Rating:

UL Standard 1666 Riser Flame Test

Electrical / Mechanical Characteristics:

Capacitance	23.4 pF/ft (76.8 pF/m)						
Impedance	50 Ohms Nom.						
Velocity of Propagation	87% Nom.						
Conductor DCR	.53 Ohms/Mft Nom. (1.74 Ohms/km)						
Shield DCR	1.2 Ohms/Mft Nom. (3.94 Ohms/km)						
Inductance	.058 uH/ft (.19 uH/m)						
Peak Power	40 kW						
Voltage Withstanding	4000 VDC						
Jacket Spark	8000 VRMS						
Shielding Effectiveness	> 90 dB						
Cutoff Frequency	10.3 GHz						
Cable Weight	132.0 lbs/Mft (197 kg/km)						
Minimum Bend Radius	1.5 inch (38.1mm)						
Tensile Strength	350 lbs (159 kg)						
Operating Temperature - Outdoor	-40C to +80C						
Attenuation							
Frequency (MHz)	dB/100 Ft M		Avg. Power (KW)	Frequency (MHz)	dB/100 Ft M		Avg. Power (KW)
30	0.42	1.38	5.5	900	2.50	8.20	0.93
50	0.55	1.80	4.2	1500	3.32	10.88	0.70
150	0.96	3.16	2.4	1800	3.67	12.05	0.63
220	1.18	3.86	2.0	2000	3.90	12.79	0.59
450	1.72	5.64	1.35	2500	4.43	14.53	0.52