



# LL142

## Technical Specification

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<http://www.giatech.eu/wp-content/uploads/2014/06/LL-Pic-crop.jpg>

The braid configuration and the expanded PTFE dielectrics of the LL cable constructions contribute to lower attenuation levels at higher frequencies, while providing shielding effectiveness levels that exceed those of flexible MIL-DTL-17 cables. Flat strips of silver plated copper are braided over the dielectric core with an intermediate metalized polyester or polyimide layer, and an outer round wire braid. Harbour's LL cables with expanded PTFE dielectrics exhibit low coefficients of expansion over the entire operating temperature range from -55° C to +200° C. Impedance discontinuities are minimized at the cable-to-connector interface. Higher levels of power can be transmitted because higher temperatures do not affect the cable due to the thermal stability of the tape. Where phase versus temperature requirements are critical, Harbour's LL cables allow for an approximately 75% lower phase shift and change in propagation time delay due to temperature. Temperature cycling tests have been performed on a number of cables with positive results. These low loss cables offer attenuation from 20 to 35% below other mil spec cables of comparable size.

Conductor size (awg)	1/1.29
Stranding (awg)	1/0.051
Conductor Material	Silver plated copper
Conductor Diameter Min (mm)	1.29
Conductor Diameter Min (in)	0.051
Conductor resistance (ohms/1000m)	50
Insulation Material	FEP
Diameter over insulation - Min. (mm)	3.68
Diameter over insulation - Min. Inch	0.145
Number of cores	1
1st Shield material	Flat Silver Plated Copper Braid
1st shield Diameter (mm)	3.86
1st shield Diameter (in)	0.152
2nd Shield material	Aluminium Polyester Tape
2nd shield Diameter (mm)	4.01
2nd shield Diameter (in)	0.158
3rd Shield material	Round Silver Plated Copper Braid
3rd shield Diameter (in)	4.41
3rd shield Diameter (mm)	0.174
Jacket Material	FEP
Jacket diameter (mm)	4.95
Jacket diameter (in)	0.195
Minimum Temperature °C	-55
Maximum Temperature °C	200
Weight (kg/km)	65.62
Weight (lbs/kft)	44

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For technical assistance or to order this product please contact Giatech on:  
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