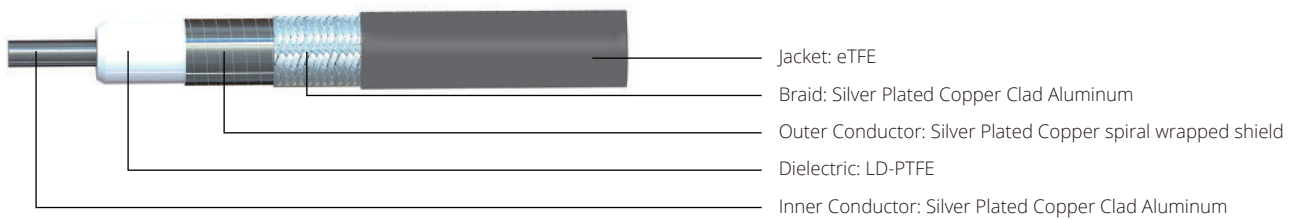


# PLEX-lite Series Lightweight Cable



Anoison Electronics leads the industry in offering PLEX-Lite series lightweight cables. The PLEX-Lite series are perfect for applications demanding reduced weight such as aircraft or aerospace. While maintaining excellent electrical performance, the PLEX-Lite series uses lightweight materials for center conductor, shielding and jacketing that reduce weight by 30% to 36% below comparable competitive offerings.

## Cable Weight Comparing

PLEX-lite	vs	Reference Cable	Weight Reduction Ratio
PLEX090-lite   11.04 g/m		Gore 89   16 g/m	31%
PLEX140-lite   21.2 g/m		Gore 4Y   31.1 g/m	32%
PLEX190-lite   36 g/m		Gore G9   52 g/m	30%
PLEX310-lite   80 g/m		Gore G6   125 g/m	36%

## Mechanical Characteristics

Cable Type	PLEX090-lite	PLEX140-lite	PLEX190-lite	PLEX310-lite
Center Conductor Diameter (mm)	0.51	0.91	1.40	2.30
Insulation Diameter (mm)	1.40	2.50	3.85	6.30
Shields Diameter (mm)	1.90	3.10	4.40	7.00
Jacket Diameter (mm)	≤2.30	≤3.60	≤4.85	≤7.60
Min.bending radius (mm)	11	18	24	40
Temperature(°C)	-65 to +165	-65 to +165	-65 to +165	-65 to +165

## Electrical Characteristics

Cable Type	PLEX090-lite	PLEX140-lite	PLEX190-lite	PLEX310-lite
Impedance (Ohms)	50	50	50	50
Capacitance (pf/m)	82	80.4	80.4	80.4
Cut-off Frequency (GHz)	67	40	26.5	18
Velocity of Propagation (%)	80	82	83	83
Max.Operating Voltage (KW)	0.8	1.2	1.3	1.5
Shielding Effectiveness (dB)	≥100	≥100	≥100	≥100
Phase Stability vs Flexure (°)	±0.3	±0.4	±0.4	±0.4
Phase Change vs Temperature (ppm)	≤800	≤750	≤750	≤750

## Attenuation (dB/m) @ 25 °C

Frequency	PLEX090-lite	PLEX140-lite	PLEX190-lite	PLEX310-lite
3 GHz	1.10	0.61	0.44	0.77
6 GHz	1.58	0.86	0.63	0.37
18 GHz	2.84	1.58	1.08	0.66
40 GHz	4.39	2.64	-	-