

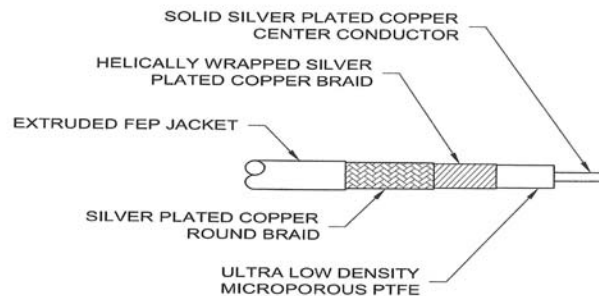
ENSMICROWAVE LLC

195 Federal Rd., Suite 5, Brookfield, CT 06804
sales@ensmicro.com

T: 203-794-7940 F: 203-794-7941
www.ensmicro.com

SL290 CABLE

CABLE CROSS SECTION



Max. Frequency (GHz)	18
Vel. Of Propagation %	85
RF Leakage at 18 GHz` (dB)	>-100
Max. Voltage (kV)	15
Capacitance (pF/ft.)	25
Cable OD (Inches)	0.292
Bend Radius (Inches)	1.6
Weight (Lb/100 ft.)	9
Center Conductor type	Solid
k1:	4.24
k2:	0.185

$$\text{Cable Attenuation (dB/100ft.)} = k1 * \sqrt{f} + k2 * f$$

$$\text{Cable Assembly Loss (dB)} = (k1 * \sqrt{f} + k2 * f) / 1200 * l + \text{Connector 1 Loss} + \text{Connector 2 Loss}$$

Connector Loss:

Connector Type	Straight	Right Angle	VSWR Specifications:
SMA	$.005 * \sqrt{f} + .01 * f$	$.014 * \sqrt{f} + .013 * f$	1.35:1 for assemblies with 2 straight connectors.
N	$.004 * \sqrt{f} + .01 * f$	$.013 * \sqrt{f} + .013 * f$	1.40:1 for assemblies with 1 straight and 1 right angle connector.
TNC	$.004 * \sqrt{f} + .01 * f$	$.013 * \sqrt{f} + .013 * f$	1.45:1 for assemblies with 2 right angle connectors.

f is in GHz and l is inches

Available Connectors:

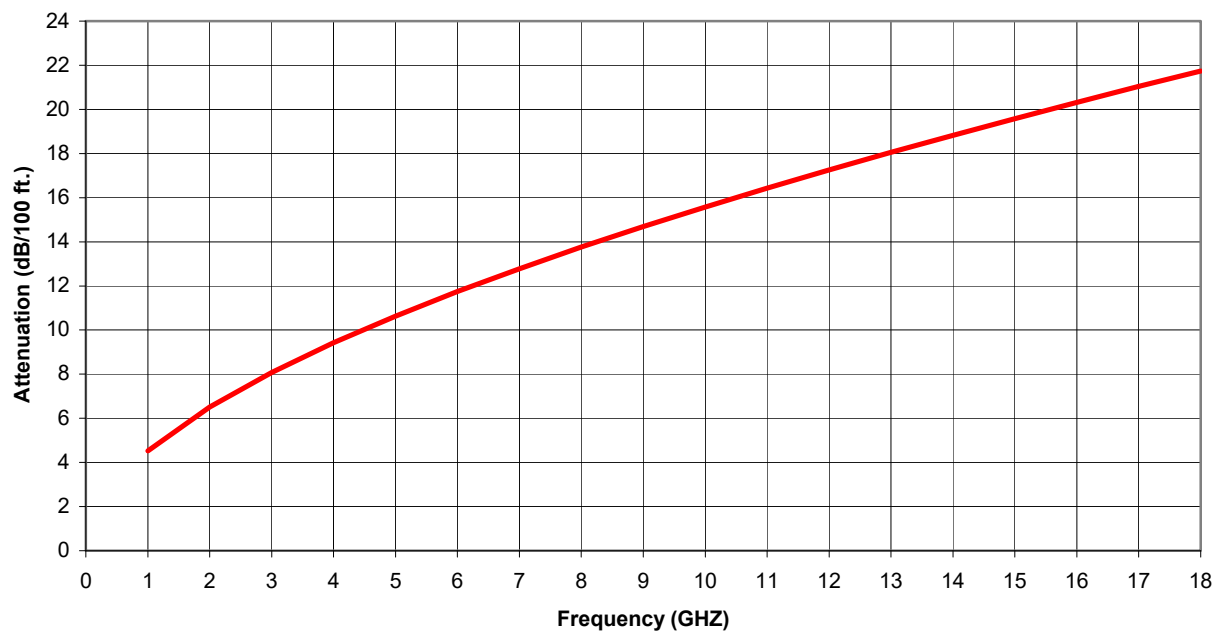
N, SMA, TNC, Others available on request



195 Federal Rd., Suite 5, Brookfield, CT 06804
sales@ensmicro.com

T: 203-794-7940 F: 203-794-7941
www.ensmicro.com

SL290 Cable



Max. Avg. Power rating at sea level and 20 degrees C. VSWR 1:1

SL290 Cable

