

PS520L-28G-F

Phase Stable Low Loss Coaxial Cable (28 GHz)

High-performance flexible coaxial cable featuring LD-PTFE dielectric, triple shielding, and a Light Blue FEP jacket. Cross-reference compatible with SFT205 series.

Max Frequency: 28.0 GHz

Impedance: 50 Ω

Nom. O.D.: 5.20 mm

Cross Ref: SFT205



STRUCTURE & MATERIALS

Layer	Material	Construction (mm)	Nom. O.D. (mm)
Inner Conductor	Silver Plated Copper	1/1.29	1.29
Insulation	LD-PTFE	-	3.91
Inner Shield	Silver Plated Copper Strip	-	4.12
Interlayer	High Temperature Aluminium Foil	-	4.26
Outer Shield	Silver Plated Copper Wire	-	4.78
Jacket	Light Blue FEP	-	5.20

ELECTRICAL SPECS

Impedance	50 Ω
Velocity of Prop.	76%
Capacitance	88 pF/m
Screening Effect.	> 90 dB
Max Frequency	28 GHz
Withstanding Volt.	1800 V DC
Phase vs Bending	±0.2° / GHz
Phase vs Temp.	≤ 1500 PPM

MECHANICAL SPECS

Min. Bend Radius (Static)	18.40 mm
Min. Bend Radius (Dynamic)	46.00 mm
Weight	0.060 kg/m
Operating Temp.	-55 to +200 °C

ATTENUATION & POWER HANDLING (@25°C SEA LEVEL)

Attenuation Calculation Formula: $IL = K1 \cdot \sqrt{F_MHz} + K2 \cdot F_MHz$ | $K1 = 0.856234, K2 = 0.0005906$

Freq. (MHz)	Nom. Attenuation (dB/100m)	Max Power (W @ 40°C)	Freq. (MHz)	Nom. Attenuation (dB/100m)	Max Power (W @ 40°C)
500	19.44	1065	10000	91.53	226
1000	27.67	749	12400	102.67	202
2400	43.36	478	18000	125.51	165
3000	48.67	426	20000	132.90	156
6000	69.87	296	26500	155.04	134
8000	81.31	255	-	-	-

