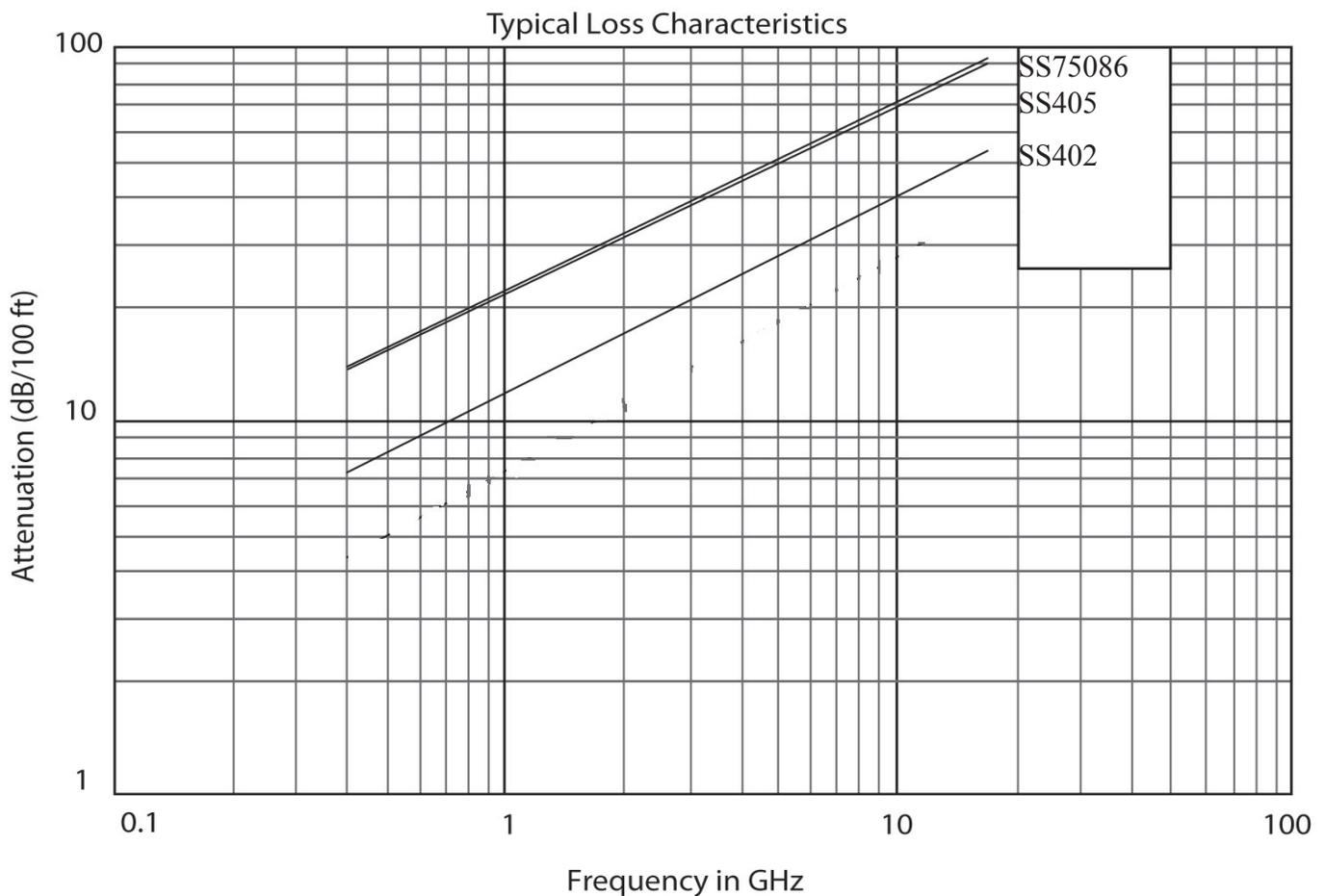


SS (Spiral Strip) Coaxial Cable

Harbour's SS coaxial cables are flexible alternatives to semi-rigid coax, and the unique shielding configuration offers a cost effective, low attenuation option. The use of strip/round braid composite shields results in low transfer impedance levels. The 50 ohm constructions exhibit the same attenuation characteristics as the M17/130-RG402 and M17/133-RG405 cables. All SS cables have VSWR characteristics that meet or exceed similar size flexible constructions. SS402 and SS405 have been designed with diameters over the outer braids of .141" and .086" respectively, so standard SMA connectors may be used.

An overall FEP jacket is resistant to oil and chemicals. The cable is either unmarked or surface printed eliminating a marker tape that may cause problems in termination. Without the marker tape, an improved level of adhesion exists between the braided core and the jacket that allows ease of termination with short length assemblies.



SS (Spiral Strip) Coaxial Cable

- Spiral strip shield
- Same attenuation as semi-rigid coax



Construction:

Center conductor: Silver plated copper clad steel (SCCS)

Dielectric: Solid PTFE

Inner shield: Spiral strip of silver plated copper

Outer braid: Round silver plated copper

Jacket: Solid blue FEP

Physical Characteristics:

Center conductor diameter
Dielectric diameter
Diameter over inner shield
Diameter over outer braid
Overall diameter
Weight (lbs/mft)
Operating temperature range (°C)
Min. recommended bend radius

Electrical Characteristics:

Impedance (ohms)
Capacitance (pF/ft)
Velocity of propagation
Attenuation (dB/100 ft) @
400 MHz
1 GHz
2 GHz
2.4 GHz
3 GHz
5 GHz
10 GHz
18 GHz
Cut-off frequency (GHz)
Shielding effectiveness

	SS402	SS405	SS75086
Center conductor diameter	.037"	.0201"	.0113"
Dielectric diameter	.117"	.064"	.064"
Diameter over inner shield	.128"	.071"	.074"
Diameter over outer braid	.141"	.086"	.086"
Overall diameter	.163"	.104"	.100"
Weight (lbs/mft)	32	14	14
Operating temperature range (°C)	-55 +200	-55 +200	-55 +200
Min. recommended bend radius	0.8"	0.5"	0.5"
Impedance (ohms)	50	50	75
Capacitance (pF/ft)	29.4	29.4	19.5
Velocity of propagation	70	70	70
Attenuation (dB/100 ft) @	Typ/Max	Typ/Max	Typ/Max
400 MHz	7.1 / 8.0	13.5 / 14.0	13.5 / 14.0
1 GHz	11.2 / 13.0	21.7 / 30.0	22.0 / 24.0
2 GHz	16.5 / 18.5	29.0 / 32.0	31.0 / 34.0
2.4 GHz	18.0 / 20.0	33.0 / 35.0	34.0 / 37.0
3 GHz	21.0 / 23.0	37.0 / 39.0	38.0 / 41.0
5 GHz	27.0 / 30.0	47.0 / 52.0	50.0 / 55.5
10 GHz	41.0 / 45.0	69.0 / 80.0	71.0 / 84.0
18 GHz	58.0 / 64.0	95.0 / 110.0	98.0 / 115.0
Cut-off frequency (GHz)	34.0	63.0	72.0
Shielding effectiveness	< -110 dB	< -110 dB	< -110 dB