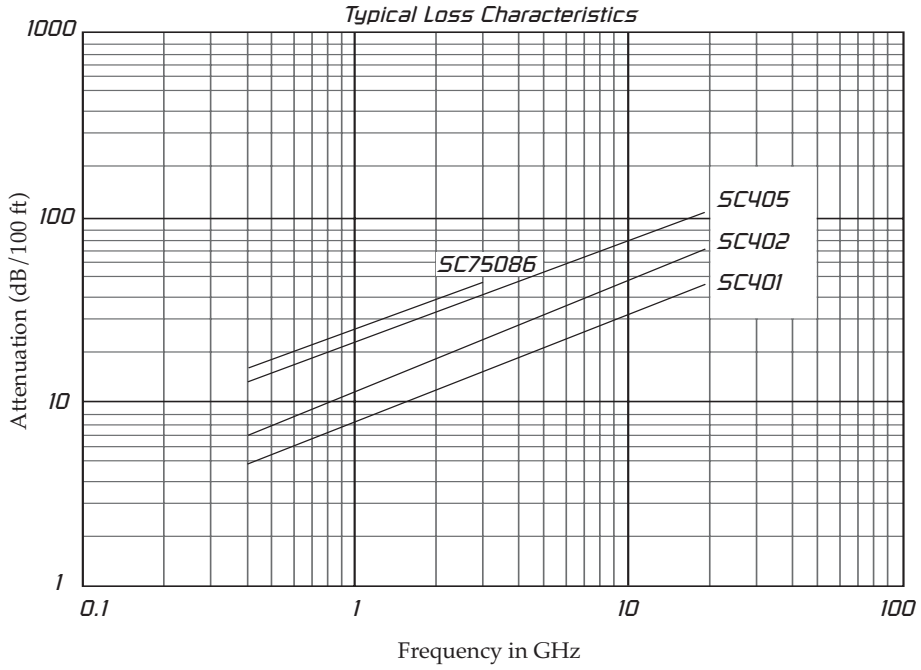
SC Sureform® Soldered Braid Coaxial Cable

Proprietary "Soldered Braid" Shield Congifuation

Harbour's Sureform® Coax cables are manufactured with a proprietary shield configuration consisting of a lead-free metallic alloy saturated braid. The resulting design yields low attenuation and the highest possible shielding effectiveness of any non-rigid coaxial cable. Harbour's Sureform® soldered braid coax allows for routing in extremely tight areas, and the cable retains its shape once it's formed. Sureform® coaxial cables can be used with standard connectors designed for semi-rigid coax.

Applications

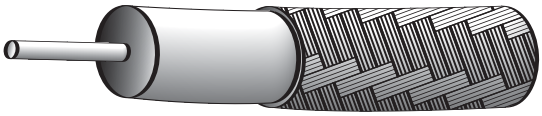
Harbour's Sureform® cables are ideal for internal wiring of electronic equipment, delay lines, radar, avionics, and other high frequency applications. Harbour's SC75086 cable has been designed for video applications such as internal wiring of cable television amplifiers, repeaters, and broadcast equipment.



SC Sureform® Soldered Braid Coaxial Cable

Construction:

Center Conductor: *solid silver plated copper or silver plated copper clad steel*
Dielectric: *solid PTFE*
Outer Conductor: *tin saturated braid*
Jacket: *unjacketed, PVC or FEP*



Physical Characteristics:

		Catalog Numbers			
SCCS center conductor	-unjacketed	--	*SC402*	*SC405*	*SC75086*
	-PVC jacketed	--	*SC402PJ*	*SC405PJ*	*SC75086PJ*
	-FEP jacketed	--	*SC402FJ*	*SC405FJ*	*SC75086FJ*
SPC center conductor	-unjacketed	*SC401*	*SC402SPC*	*SC405SPC*	*SC75086SPC*
	-PVC jacketed	*SC401PJ*	*SC402SPC-PJ*	*SC405SPC-PJ*	*SC75086SPC-PJ*
	-FEP jacketed	*SC401FJ*	*SC402SPC-FJ*	*SC405SPC-FJ*	*SC75086SPC-FJ*
Center conductor diameter		.0659″	.037″	.0201″	.0113″
Dielectric diameter		.209″	.117″	.064″	.064″
Diameter over braid		.245″	.139″	.085″	.085″
Overall diameters	-unjacketed	.245″	.139″	.085″	.085″
	-PVC jacketed	.284″	.179″	.110″	.110″
	-FEP jacketed	.272″	.169″	.106″	.106″
Min. recommended bend radius	-unjacketed	0.75″	0.43″	0.25″	0.25″
	-PVC jacketed	1.25″	0.75″	0.45″	0.45″
	-FEP jacketed	1.00″	0.70″	0.43″	0.43″
Operating temperature range (° C)		-40 +165	-40 +165	-40 +165	-40 +165

Electrical Characteristics:

Impedance (ohms)		50	50	50	75
Capacitance (pF/ft.)		29.4	29.4	29.4	19.0
Velocity of propagation (%)		70	70	70	70
Attenuation (dB/100 ft)		Typ / Max	Typ / Max	Typ / Max	Typ / Max
@ 400 MHz		4.4 / 4.6	7.4 / 7.6	12.7 / 13.1	15.0 / 16.7
1 GHz		7.6 / 8.2	12.5 / 13.1	21.8 / 23.0	25.0 / 28.0
2 GHz		11.5 / 13.0	18.0 / 19.0	31.0 / 34.0	39.0 / 43.0
2.4 GHz		12.5 / 14.0	20.0 / 21.6	34.0 / 38.0	42.0/ 47.1
3 GHz		14.4 / 16.0	24.0 / 27.0	39.0 / 43.0	47.0 / 52.7
5 GHz		20.0 / 22.0	33.0 / 36.0	53.0 / 57.0	- / -
10 GHz		32.0 / 34.0	49.0 / 54.0	78.0 / 86.0	- / -
18 GHz		46.0 / 51.0	72.0 / 78.0	111.0 / 119.0	- / -
Cut-off frequency (GHz)		18.0	32.0	60.0	68.0
Shielding effectiveness		< -110 dB	< -110 dB	< -110 dB	< -110 dB

All figures referenced above are nominal unless otherwise specified.