



SI-195

Low Loss Flexible Braided Cable

As an alternative to RG-58 and RG142, Enforcer, SI-195 is an excellent alternative for use in applications such as WLL, GPS, WLAN, WiMAX, SCADA, two-way radio, and other mobile applications. It is an excellent choice for cable assemblies when flexibility matters. Industry standard connectors are compatible with SI-195 cable.

Construction Materials			
Description	Material	In	(mm)
Inner Conductor	Solid BC	0.037	(0.94)
Dielectric	Foam P.E.	0.110	(2.79)
Outer Conductor	Aluminum Tape	0.116	(2.95)
Overall Braid	Tinned Copper	0.139	(3.53)
Jacket	PE	0.195	(4.95)



Electrical Specifications			
Property	Units	US	Metric
Velocity of propagation	%	>83%	
Impedance	ohms	50	
Capacitance	pF/ft (pF/km)	23.8	78
DC Resistance - Inner conductor	ohms/1000 ft / (km)	7.6	25
DC Resistance - Outer Conductor	ohms/1000 ft / (km)	4.9	16
Voltage Withstand	Volts DC	1000	
Jacket Spark	Volts RMS	3000	

Mechanical Specifications			
Property	Units	US	Metric
Bend Radius - Installation	in. (mm)	0.5	(12.70)
Bend Radius - Repeated	in. (mm)	2.0	(50.80)
Tensile Strength	lb (kg)	40	(18.20)

Frequency (MHz)	Attenuation vs. Frequency (typical)										
	30	50	150	220	450	900	1500	1800	2000	2500	5800
Attenuation dB/100 ft	2.0	2.5	4.4	5.4	7.8	11.1	14.5	16.0	16.9	19.0	29.9
Attenuation dB/100 m	6.5	8.4	14.6	17.7	25.5	36.5	47.7	52.5	55.4	62.4	98.1

