

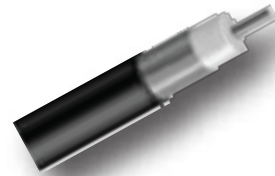


SI-195

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 |

