CBL-CU195™

50 Ohm Low Loss, High Performance Coaxial Cable

Replacement for RG-58 and RG-142 cables

Loss comparable to semi-rigid cable

50dB better than single shielded cable

RoHS Compliant

ELECTRICAL CHARACTERISTICS

Characteristic Impedance ..... 50 ±3 ohm

Capacitance ..... 23.8 pF/ft

Velocity of Propagation ..... >83%

DC Resistance
- Inner Conductor ..... 7.6 ohms/1000 ft
- Outer Conductor ..... 4.9 ohms/1000 ft

Jacket Spark ..... 3000 Volts RMS

Voltage Withstanding ..... 1000 Volts DC

Return Loss
- 5-1000 MHz ..... 23 dB
- 1000-3000 MHz ..... 21 dB

Insulation Resistance ..... >100,000 MΩ-km

Shielding Effectiveness
- 100-3000 MHz ..... >90 dB

Frequency (at 68°)	**Attenuation ±10%**
30 MHz	6.50 dB/100m
50 MHz	8.40 dB/100m
150 MHz	14.60 dB/100m
220 MHz	17.71 dB/100m
450 MHz	25.50 dB/100m
900 MHz	36.50 dB/100m
1500 MHz	47.70 dB/100m
1800 MHz	52.50 dB/100m
2000 MHz	55.40 dB/100m
2500 MHz	62.40 dB/100m
5800 MHz	98.10 dB/100m

PROPERTIES

Minimum Bending Radius
- Installation ..... 0.5″
- Repeated ..... 2.0″

Maximum Pulling Tension ..... 40 lbs

Flat Plate Crush ..... 15 lbs

Rated Temperature
- Storage/Operating ..... -40 / +185°
- Outdoor Installation ..... -40 / +185°

CONSTRUCTION

Inner Conductor ..... Solid BC
- Conductor Diameter ..... 0.037″

Dielectric ..... Foam PE
- Diameter ..... 0.1100″
- Color ..... Neutral

Shielding ..... Aluminum Tape (bonded)
- Thickness AL/PET-Foil ..... 10/15 μm

Outer Conductor ..... TC Wire Braid
- Conductor Diameter ..... 0.0047″
- No. of Wires 112
- Coverage (±3%) 91

Jacket ..... PE
- Outer Diameter ..... 0.195″
- Color ..... Black

ROHS GUIDELINES

Cadmimum (Cd)	<0.01%
Lead (Pb)	<0.1%
Mercury (Hg)	<0.1%
Chromium (VI)	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

Note: Specifications subject to change without notice