



# CBL-CU240™

## 50 Ohm Low Loss, High Performance Coaxial Cable

Cross Reference to:  
LMR®-240,  
CNT®-240, and  
RG-8X cable

Loss comparable to  
semi-rigid cable

50 dB better than  
single shielded  
cable

Available  
pre-terminated

RoHS Compliant



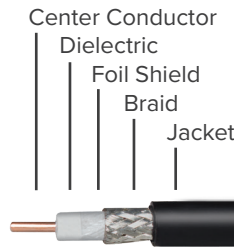
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### ELECTRICAL CHARACTERISTICS

Maximum Frequency	8000 MHz
Characteristic Impedance	50 ±3 ohm
Capacitance	23.8 pF/ft
Velocity of Propagation	>83%

#### DC Resistance

Inner Conductor	<3.35 ohms/1000 ft
Outer Conductor	<3.65 ohms/1000 ft

Jacket Spark ..... 5000 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	4.40 dB/100m
50 MHz	5.58 dB/100m
150 MHz	9.90 dB/100m
220 MHz	12.14 dB/100m
450 MHz	17.38 dB/100m
900 MHz	24.93 dB/100m
1500 MHz	32.50 dB/100m
1800 MHz	35.83 dB/100m
2000 MHz	37.73 dB/100m
2500 MHz	42.40 dB/100m
5800 MHz	67.00 dB/100m
8000 MHz	79.70 dB/100m

### PROPERTIES

#### Minimum Bending Radius

Installation	0.75"
Repeated	2.5"

Maximum Pulling Tension ..... 80 lbs

Flat Plate Crush ..... 20 lbs

#### Rated Temperature

Storage/Operating	-40 / +85°
Outdoor Installation	-40 / +85°

### CONSTRUCTION

Inner Conductor ..... BC  
Conductor Diameter ..... 0.056"

Dielectric ..... Foam PE  
Insulation Diameter ..... 0.150"  
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 ..... 144  
Coverage (±3%) ..... 92

Jacket ..... PE  
Outer Diameter ..... 0.240"  
Color ..... Black  
UV Outdoor Rated ..... Compliant

### ROHS GUIDELINES

Cadmium (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

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