



# CBL-CU400™

## 50 Ohm Low Loss, High Performance Coaxial Cable

Cross Reference to:  
LMR®-400,  
CNT®-400,  
Belden 9913, RG-8  
and RG-213 cables

Loss comparable to  
semi-rigid cable

50dB better than  
single shielded  
cable

Available  
pre-terminated

RoHS Compliant



### RF Industries

(NASDAQ: RFI)

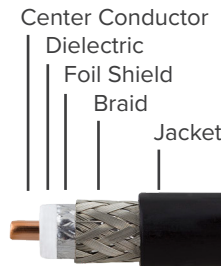
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### ELECTRICAL CHARACTERISTICS

Maximum Frequency ..... 8000 MHz

Characteristic Impedance ..... 50 ±3 ohm

Capacitance ..... 23.8 pF/ft

Velocity of Propagation ..... >82%

#### DC Resistance

Inner Conductor ..... <1.39 ohms/1000 ft

Outer Conductor ..... <1.8 ohms/1000 ft

Jacket Spark ..... 4000 Volts RMS

#### Voltage Withstanding

..... 3 seconds @ 2500 Volts DC

#### Return Loss

30-2200 MHz ..... 21 dB

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

#### Shielding Effectiveness

30-2500 MHz ..... >90 dB

#### Frequency (at 68°) Attenuation ±10%

50 MHz	2.95 dB/100m
150 MHz	4.92 dB/100m
220 MHz	6.23 dB/100m
300 MHz	7.20 dB/100m
450 MHz	8.86 dB/100m
500 MHz	9.39 dB/100m
900 MHz	12.80 dB/100m
960 MHz	13.22 dB/100m
1500 MHz	16.73 dB/100m
1800 MHz	18.53 dB/100m
1900 MHz	19.09 dB/100m
2000 MHz	19.68 dB/100m
2200 MHz	20.66 dB/100m
5800 MHz	35.50 dB/100m
8000 MHz	42.60 dB/100m

### PROPERTIES

#### Minimum Bending Radius

Installation ..... 1.00"  
Repeated ..... 4.00"

Maximum Pulling Tension ..... 160 lbs

Flat Plate Crush ..... 40 lbs

#### Rated Temperature

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

### CONSTRUCTION

Inner Conductor ..... BCCA  
Conductor Diameter ..... 0.108"

Dielectric ..... Foam PE  
Diameter ..... 0.285"  
Color ..... Neutral

Shielding ..... Aluminum Tape (bonded)  
Thickness AL/PET-Foil ..... 10/12 µm

Outer Conductor ..... TC Wire Braid  
Conductor Diameter ..... 0.006"  
No. of Wires ..... 192

Jacket ..... PE  
Outer Diameter ..... 0.405"  
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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