

# CBL-CU400™

## 50 Ohm Low Loss, High Performance Coaxial Cable

Replacement for LMR®-400 and Belden 9913, RG-8, RG-213 and RG-214 cables

Loss comparable to semi-rigid cable

50dB better than single shielded cable

Available pre-terminated

RoHS Compliant



### RF Industries

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### ELECTRICAL CHARACTERISTICS

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

### 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 .....	BCCA1
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

### 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%