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



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 ..... BCCAl
- 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

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%

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Note: Specifications subject to change without notice

Revision 3 | June 2023

CBL-CU400 is a registered trademark of RF Industries, LMR is a registered trademark of Times Microwave Systems. CNT is a registered trademark of CommScope.

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