

# CBL-CU400™

50 Ohm Low Loss, High Performance Coaxial Cable

Replacement for  
RG-8, RG-213, and  
RG-214 cables

Loss comparable  
to semi-rigid cable

50dB better than  
single shielded  
cable

Available  
pre-terminated

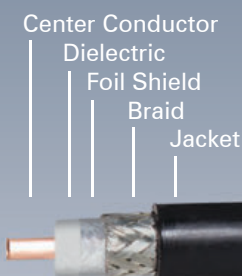
RoHS Compliant



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### ELECTRICAL CHARACTERISTICS

<b>Characteristic Impedance</b> .....	50 ±3 ohm
<b>Capacitance</b> .....	23.8 pF/ft
<b>Velocity of Propagation</b> .....	>82%
<b>DC Resistance</b>	
Inner Conductor .....	<1.39 ohms/1000 ft
Outer Conductor.....	<1.8 ohms/1000 ft
<b>Jacket Spark</b> .....	4000 Volts RMS
<b>Voltage Withstanding</b>	
.....	3 seconds @ 2500 Volts DC
<b>Return Loss</b>	
30-2200 MHz.....	21 dB
<b>Insulation Resistance</b> .....	>100,000 MΩ-km
<b>Shielding Effectiveness</b>	
30-2500 MHz.....	>90 dB
<b>Frequency (at 68°)</b>	<b>Attenuation ± 10%</b>
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

<b>Minimum Bending Radius</b>	
Installation.....	1.00"
Repeated.....	4.00"
<b>Maximum Pulling Tension</b> .....	160 lbs
<b>Flat Plate Crush</b> .....	40 lbs
<b>Rated Temperature</b>	
Storage/Operating.....	-40 / +85°
Outdoor Installation.....	-40 / +85°

### CONSTRUCTION

<b>Inner Conductor</b> .....	BCCAI
Conductor Diameter.....	0.108"
<b>Dielectric</b> .....	Foam PE
Diameter .....	0.285"
Color.....	Neutral
<b>Shielding</b> .....	Aluminum Tape (bonded)
Thickness AL/PET-Foil .....	10/12 μm
<b>Outer Conductor</b> .....	TC Wire Braid
Conductor Diameter.....	0.006"
No. of Wires.....	192
<b>Jacket</b> .....	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%

(NOTE: IMAGES SHOWN AT 75% ACTUAL SIZE)



FIG 1  
RFB-1101-1SI

FIG 2  
RFB-1106-I



FIG 3  
RFD-1604-2I



FIG 4  
RFD-1605-2-E



FIG 5  
RFD-1625-2-E



FIG 6  
RFD-1630-2-E



FIG 7  
RFN-1001-S



FIG 8  
RFN-1002-1SI



FIG 9  
RFN-1006-3I,  
-I, -I-15



FIG 10  
RFN-1006-4I



FIG 11  
RFN-1006-49I



FIG 12  
RFN-1006-I-WB



FIG 13  
RFN-1009-3I



FIG 14  
RFN-1009-I, -I-99



FIG 15  
RFN-1024-1SI



FIG 16  
RFN-1028-I, -SI

DESCRIPTION	BODY	P/C	DIE	PART #	FIG
<b>BNC</b>					
BNC Male Clamp Plug	S	G	T	RFB-1101-1SI	1
BNC Male Crimp Plug	N	G	T	RFB-1106-I	2
<b>7/16 DIN</b>					
7/16 Din Male Crimp Plug Straight	S	S	T	RFD-1604-2I	3
7/16 Din Male Crimp Plug Combo Straight or Right Angle	S	S	T	RFD-1605-2-E	4
7/16 Din Female Clamp Jack Combo Straight or Right Angle	S	S	T	RFD-1625-2-E	5
7/16 Din Female Crimp Jack Combo Straight or Right Angle	S	S	T	RFD-1630-2-E	6
<b>N-TYPE</b>					
N Male Solder Plug	S	G	T	RFN-1001-S	7
N Male Solder Clamp Plug	S	G	T	RFN-1002-1SI	8
N Male Crimp Plug; UG-1681/U	S	G	T	RFN-1006-3I	9
N Male Crimp with Hex Nut	WB	G	T	RFN-1006-4I	10
N Male Crimp with Hex Nut and Captive Pin	WB	G	T	RFN-1006-49I	11
N Male Crimp Plug	N	G	T	RFN-1006-I	9
N Male Crimp Plug; Pin has 15 Micro-In Gold	N	G	T	RFN-1006-I-15	9
N Male Crimp Plug; Hex /Knurl Shell	WB	G	T	RFN-1006-I-WB	12
N Male Right Angle Crimp Plug	S	G	T	RFN-1009-3I	13
N Male Right Angle Crimp Plug for RG-8/U type	N	G	T	RFN-1009-I	14
N Male Right Angle Crimp Plug for RG-8 type	N	G	T	RFN-1009-I-99	14
N Female Cable Clamp Jack; UG-23D/U, F/U	S	G	T	RFN-1024-1SI	15
N Female Crimp Cable Jack	N	G	T	RFN-1028-I	16
N Female Crimp Cable Jack; UG-1688/U	S	G	T	RFN-1028-SI	16

(NOTE: IMAGES SHOWN AT 75% ACTUAL SIZE)



FIG 17  
RFT-1201-SI  
RT-1200-I



FIG 18  
RFT-1202-I  
RT-1202-I



FIG 19  
RFT-1214-I



FIG 20  
RFT-1216-I



FIG 21  
RFU-500  
RFU-501



FIG 22  
RFU-503



FIG 23  
RFU-507-SI



FIG 24  
RFU-520-I



FIG 25  
RP-1006-3I



FIG 26  
RP-1028-I



FIG 27  
RP-1202-I



FIG 28  
RP-1216-I



FIG 29  
RP-3000-I



FIG 30  
RSA-3000-I



FIG 31  
RSA-3252-1I

DESCRIPTION	BODY	P/C	DIE	PART #	FIG
<b>TNC</b>					
TNC Male Clamp Plug	S	G	T	RFT-1201-SI	17
TNC Male Clamp Plug	N	G	T	RFT-1202-I	18
TNC Female Clamp Jack	N	G	T	RFT-1214-I	19
TNC Female Crimp Jack	N	G	T	RFT-1216-I	20
<b>UHF</b>					
UHF Male Solder Plug; PL-259; Use with RFU-530 Reducer	S	S	Dap	RFU-500	21
UHF Male Solder Plug; PL-259; Use with RFU-530-S Reducer	S	S	T	RFU-501	21
UHF Male Clamp Plug, Waterproof w/ Silicon Rubber O-Rings	N	S	T	RFU-503	22
UHF Male Crimp Plug	S	S	T	RFU-507-SI	23
UHF Female Clamp Jack	N	S	T	RFU-520-I*	24
<b>REVERSE POLARITY</b>					
N Reverse Polarity Male Crimp Plug	N	G	T	RP-1006-3I	25
N Reverse Polarity Female Crimp Jack	N	G	T	RP-1028-I	26
TNC Reverse Polarity Male Crimp Plug	N	G	T	RP-1202-I	27
TNC Reverse Polarity Female Crimp Jack	N	G	T	RP-1216-I	28
SMA Reverse Polarity Male Crimp Plug	N	G	T	RP-3000-I	29
<b>SMA</b>					
SMA Male Crimp Plug	N	G	T	RSA-3000-I	30
SMA Female Crimp Bulkhead Jack w/o Gasket	N	G	T	RSA-3252-1I	31
<b>REVERSE THREAD - FCC REG 15</b>					
TNC Male Clamp Plug, Left Hand Thread	N	G	T	RT-1200-I	17
TNC Male Crimp Plug, Left Hand Thread	N	G	D	RT-1202-I	18

\*Special Order