

CBL-CU240™

50 Ohm Low Loss, High Performance Coaxial Cable

Replacement for
RG-8X cable

Loss comparable
to semi-rigid cable

50dB better than
single shielded
cable

Available
pre-terminated

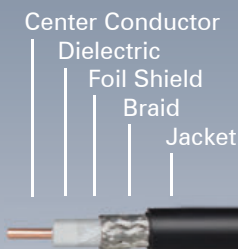
RoHS Compliant



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ELECTRICAL CHARACTERISTICS

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

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

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%

CBL-CU240 is a registered trademark of RF Industries

Note: Specifications subject to change without notice

(NOTE: IMAGES SHOWN AT 65% ACTUAL SIZE)



DESCRIPTION	BODY	P/C	DIE	PART #	FIG
BNC					
BNC Male Solder Clamp	N	S	D	RFB-1101-1X	1
BNC Male Crimp Plug	N	G	D	RFB-1107-1X	2
BNC Female Crimp Socket	N	G	D	RFB-1124-1X	3
7/16 DIN					
7/16 DIN Male Crimp Plug Combo Straight or R/A	S	S	T	RFD-1605-2-X	4
7/16 DIN Female Crimp Jack Combo Straight or R/A	S	S	T	RFD-1630-2-X	5
FME					
FME Female Crimp Jack	N	G	T	RFE-6050-X	6
MHV					
High Voltage Male Crimp Plug	N	G	T	RHV-106-X	7
N					
N Male Solder Plug	S	G	T	RFN-1001-S	8
N Male Clamp Plug	S	G	T	RFN-1004-1SX	9
N Male Crimp, Solderless Center Conductor	N	G	T	RFN-1006-8X	10
N Male Crimp, Hex Shell, Solderless Center Conductor	N	G	T	RFN-1006-9X	11
N Male Crimp Plug	S	G	T	RFN-1007-2SX	12
N Male Crimp Plug	N	G	T	RFN-1007-X	12
N Male Right Angle Crimp Plug	N	G	T	RFN-1009-X-04	13
N Male Right Angle Crimp with Hex Shell	WB	G	T	RFN-1009-9X-WB	14
N Female Bulkhead Rear Mount	N	G	T	RFN-1022-X	15
N Female Clamp Jack	S	G	T	RFN-1026-1X	16
N Female Crimp Jack	S	G	T	RFN-1029-SX	17
TNC					
TNC Male Clamp Plug	N	G	T	RFT-1201-1X	18
TNC Male Crimp Plug	N	G	D	RFT-1203-1X	19
TNC Female Crimp Rear Mount Bulkhead Jack	N	G	D	RFT-1213-X	20
TNC Female Crimp Jack	N	G	D	RFT-1217-X	21
TNC, Male Right Angle Crimp	N	G	T	RFT-1218-X	22

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DESCRIPTION	BODY	P/C	DIE	PART #	FIG
UHF					
UHF Male Solder Plug; PL-259; Use with RFU-531 Reducer	N	S	Dap	RFU-500	23
UHF Male Solder Plug; includes Reducer RFU-531	N	S	Dap	RFU-500-D	23
UHF Male Solder Plug; PL-259; Use with RFU-531-S Reducer	S	S	T	RFU-501	23
UHF, Male Solder Plug; includes Reducer RFU-531-S	S	S	T	RFU-501-D	23
UHF Male Crimp Plug	N	S	Dap	RFU-508-X	24
Reducer, Use with RFU-500	N			RFU-531	25
Reducer, Use with RFU-501	S			RFU-531-S	25
MINI-UHF					
Mini-UHF Male Crimp Plug	N	G	D	RFU-600-1X	26
Mini-UHF Female Crimp Jack	N	S	D	RFU-601-1X	27
M-UHF, Female Crimp	N	G	D	RFU-601-4	28
QMA					
QMA Plug, Crimp (Snap-Lock)	WB	G	T	RQA-5000-X	29
QMA Plug, Right Angle Crimp, (Snap-Lock)	WB	G	T	RQA-5010-X	30
QMA Plug, Right Angle Crimp, (Snap-Lock), Solderless	WB	G	T	RQA-5010-8X	31
REVERSE GENDER (POLARITY) - FCC REG 15					
TNC Male Crimp Plug, Reverse Polarity (Gender)	N	G	T	RP-1202-X	32
SMA Male Crimp Plug, Reverse Polarity (Gender)	N	G	T	RP-3000-1X	33
SMA					
SMA Male Crimp Plug	N	G	T	RSA-3000-X	34
SMA Male Right Angle Crimp Plug	N	G	T	RSA-3010-X	35
SMA Female Crimp Jack	N	G	T	RSA-3050-X	36
REVERSE THREAD - FCC REG 15					
TNC Reverse Thread Male Crimp Plug	N	G	T	RT-1203-1X	18

