

CBL-CU195™

50 Ohm Low Loss, High Performance Coaxial Cable

Replacement for
RG-58 and RG-142
cables

Loss comparable
to semi-rigid cable

50dB better than
single shielded
cable

Available
pre-terminated

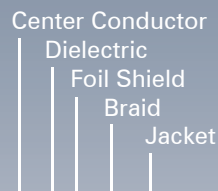
RoHS Compliant



RF Industries

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ELECTRICAL CHARACTERISTICS

Characteristic Impedance	50 ±3 ohm
Capacitance	23.8 pF/ft
Velocity of Propagation	>83%
DC Resistance	
Inner Conductor	7.6 ohms/1000 ft
Outer Conductor.....	4.9 ohms/1000 ft
Jacket Spark.....	3000 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	6.50 dB/100m
50 MHz	8.40 dB/100m
150 MHz	14.60 dB/100m
220 MHz	17.71 dB/100m
450 MHz	25.50 dB/100m
900 MHz	36.50 dB/100m
1500 MHz.....	47.70 dB/100m
1800 MHz.....	52.50 dB/100m
2000 MHz.....	55.40 dB/100m
2500 MHz.....	62.40 dB/100m
5800 MHz.....	98.10 dB/100m

PROPERTIES

Minimum Bending Radius	
Installation.....	0.5"
Repeated.....	2.0"
Maximum Pulling Tension	40 lbs
Flat Plate Crush	15 lbs
Rated Temperature	
Storage/Operating.....	-40 / +185°
Outdoor Installation.....	-40 / +185°

CONSTRUCTION

Inner Conductor	Solid BC
Conductor Diameter.....	0.037"
Dielectric.....	Foam PE
Diameter	0.1100"
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.....	112
Coverage (±3%).....	91
Jacket	PE
Outer Diameter	0.195"
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-CU195 is a registered trademark of RF Industries

Note: Specifications subject to change without notice

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(NOTE: IMAGES SHOWN AT 65% ACTUAL SIZE)



DESCRIPTION	BODY	P/C	DIE	PART #	FIG
BNC					
BNC Male Solder Clamp	N	G	D	RFB-1100-2	1
BNC Male Solder Clamp	S	G	T	RFB-1100-2ST	1
BNC Male Solderless Plug	N	S	T	RFB-1102-T	1
BNC Male Twist-On Plug	N	S	D	RFB-1104	2
BNC Male Crimp Plug	N	G	D	RFB-1106-2	3
BNC Male Crimp Plug	S	G	T	RFB-1106-2ST	3
BNC Male Crimp Plug	N	G	T	RFB-1106-2T	3
BNC Male Q/D Crimp Plug	N	G	D	RFB-1106-9	4
BNC Male Crimp Plug W/ BeCu Contact	N	G	D	RFB-1106-C-03	3
BNC Male Right Angle Crimp Plug	N	G	T	RFB-1110-1	5
BNC Male Right Angle Clamp Plug	S	G	T	RFB-1110-C-04	6
BNC Male Right Angle Clamp	S	S	T	RFB-1110-S	7
BNC Female Crimp Bulkhead Jack	N	G	D	RFB-1117	8
BNC Female Twist-On Jack	N	S	D	RFB-1121	9
BNC Female Crimp Jack	N	G	T	RFB-1123-1	10
BNC Female Crimp Jack	SS	G	T	RFB-1123-1-SS	10
BNC Wall Plate Flush Mount Crimp Jack	N	G	D	RFB-1160	11
7/16 DIN					
7/16 DIN Male Crimp Plug Combo Straight or Right Angle	S	S	T	RFD-1605-2-C	12
7/16 DIN Female Crimp Jack Combo Straight or Right Angle	S	S	T	RFD-1630-2-C	13
FME					
FME Male Crimp Plug	N	G	T	RFE-6000-C	14
FME Female Crimp Jack	N	G	T	RFE-6050-C	15
MCX					
MCX Male Straight Crimp Plug	G	G	T	RMX-8000-1C	16
MCX Male Right Angle Crimp Plug	G	G	T	RMX-8010-1C	17
N-TYPE					
N Male Solder Clamp Plug; UG-536 B/U	N	G	T	RFN-1000-N	18
N Male Solder Clamp Plug; UG-536 A/U	S	G	T	RFN-1000-1S	19
N Male Solder Plug	S	G	T	RFN-1001-S	20
N Male Crimp Plug	N	G	T	RFN-1005-2N	21
N Male Crimp Plug	S	G	T	RFN-1005-3C	21
N Male Crimp Plug (Quick Disconnect)	S	G	T	RFN-1005-5	22
N Male Right Angle Crimp Plug	S	G	T	RFN-1009-C	23
N Male Right Angle Crimp Plug, Square Body	S	G	T	RFN-1009-C-03	24
N Female Chassis, 4-Hole Flange, Solder Clamp	S	G	T	RFN-1021-6	25
N Female Crimp Blkh'd, Rear Mount w/ O-Ring	N	G	T	RFN-1022-8-C	26
N Female Cable Clamp Jack; UG-536B/U	S	G	T	RFN-1025-1	27
N Female Crimp Cable Jack	S	G	T	RFN-1027	28
N Female Crimp Cable Jack	N	G	T	RFN-1027-N	28

PLATING: G=Gold, N=Nickel, S=Silver, SS=Stainless Steel, WB=White Bronze DIELECTRIC: B, DAP=Bakelite, D=Delrin, T=PTFE

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DESCRIPTION	BODY	P/C	DIE	PART #	FIG
SPECIAL APPLICATIONS					
SMA Male Right Angle Crimp with Modified Shell	N	G	T	RFS-2006	29
BNC Male Crimp Quick-Disconnect	N	G	T	RFS-2022	30
BNC Female Crimp Quick-Disconnect	N	G	T	RFS-2023	31
SMA Male Crimp with Modified Shell	N	G	T	RFS-2115	32
TNC					
TNC Male Clamp Solder Plug; MS39012/26-0101	N	S	T	RFT-1200	33
TNC Male Crimp Plug (Captive Pin); MS39012/26-0011	N	G	D	RFT-1202-2	34
TNC Male Crimp Plug (Black Body); MS39012/26-001	C	G	D	RFT-1202-2B	35
TNC Male Crimp Plug (Captive Pin); MS39012/26-0011	N	G	T	RFT-1202-2T	34
TNC Male Crimp Plug; (Quick Disconnect)	N	G	D	RFT-1202-5	36
TNC Male Solderless Plug	N	S	D	RFT-1204	37
TNC Male Twist on Plug; AMP 2221983-7	N	S	D	RFT-1206	38
TNC Female Crimp Bulkhead Jack; MS39012/23329/4-14	N	G	D	RFT-1212	39
TNC Female Crimp Cable Jack; MS39012/27-0504	N	G	D	RFT-1216-1	40
TNC Male Right Angle Crimp Plug; MS39012/30-0504	N	G	T	RFT-1218	41
UHF					
UHF Male Solder Plug; PL-259; Use with RFU-530 Reducer	N	S	Dap	RFU-500	42
UHF Male Solder Plug; Includes Reducer RFU-530	N	S	Dap	RFU-500-C	42
UHF Male Solder Plug; PL-259; Use with RFU-530-S Reducer	S	S	T	RFU-501	42
UHF Male Solder Plug; Includes Reducer RFU-530-S	S	S	T	RFU-501-C	42
UHF Male Push on Ferrule (No Installation Tools); PL-259	N	S	Dap	RFU-504	43
UHF Male Crimp Plug	N	S	Dap	RFU-505	44
UHF Male Crimp Plug	S	S	T	RFU-505-ST	44
UHF Female Cable Clamp Jack	N	S	T	RFU-520	45
UHF Female Crimp	N	S	D	RFU-527	46
UHF Female Crimp Jack	N	S	T	RFU-527-T	46
Reducer, use with RFU-500	N			RFU-530	47
Reducer, use with RFU-501	S			RFU-530-S	47
MINI-UHF					
Mini-UHF Push-on Ferrule Plug (No Installation Tools Needed)	N	S	T	RFU-600	48
Mini-UHF Male Crimp Plug; (AMP Drawn Metal Type)	N	S	D	RFU-600-1	49
Mini-UHF Male Crimp Plug, Short, Black Chrome; Onaglass Antennas	C	G	D	RFU-600-2	50
Mini-UHF Male Crimp Plug (Quick Disconnect)	N	G	D	RFU-600-5	51
Mini-UHF Male Crimp Plug; AMP 2266-001, Amphenol 81-115	N	S	D	RFU-600-6	52
Mini-UHF Male R/A Crimp Plug	N	G	T	RFU-600-10C	53
Mini-UHF Female Crimp Jack	N	G	D	RFU-601-1	54

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DESCRIPTION	BODY	P/C	DIE	PART #	FIG
REVERSE POLARITY - FCC REG 15					
N Reverse Polarity Male Crimp Plug (Female Contact)	N	G	T	RP-1005-C	55
BNC Reverse Polarity Male Crimp Plug (Female Contact)	N	G	T	RP-1106-C	56
BNC Reverse Polarity Crimp Bulkhead Jack (Male Contact)	N	G	T	RP-1117-C	57
TNC Reverse Polarity Male Crimp Plug (Female Contact)	N	G	T	RP-1202-C	58
TNC Reverse Polarity Crimp Bulkhead Jack (Male Contact)	N	G	T	RP-1212-C	59
TNC Rev Polarity Crimp Bkhd Jack (Male Contact); 4 degree offset	N	G	T	RP-1212-C-03	59
TNC Reverse Polarity Female Crimp Straight Jack	N	G	T	RP-1216-C	60
TNC Reverse Polarity Male Right Angle Crimp Plug	N	G	T	RP-1218	61
SMA Reverse Polarity Male Crimp Plug (Female Contact)	N	G	T	RP-3000-C	62
SMA Reverse Polarity Male Crimp Plug (Female Contact)	G	G	T	RP-3000-1C	63
SMA Male R/A Crimp Plug, Reverse Polarity (Gender)	G	G	T	RP-3010-1C	64
SMA Reverse Polarity Crimp Jack (Male Contact)	N	G	T	RP-3050-1C	65
SMA Reverse Polarity Crimp Jack (Male Contact)	N	G	T	RP-3050-1C1	65
SMA Reverse Polarity Crimp Bulkhead Jack (Male Contact)	G	G	T	RP-3252-1C	66
REVERSE POLARITY, REVERSE THREAD - FCC REG 15					
SMA Reverse Polarity, Reverse Thread Male Crimp Plug	G	G	T	RPT-3000-C	62
SMA Reverse Polarity, Reverse Thread Male Crimp Plug	N	G	T	RPT-3000-1C	63
QMA					
QMA Plug, Crimp, (Snap-Lock)	WB	G	T	RQA-5000-C	67
QMA Plug, Right Angle Crimp, (Snap-Lock)	WB	G	T	RQA-5010-C	68
SMA					
SMA Male Crimp Plug	N	G	T	RSA-3000-C	69
SMA Male Crimp Plug, Three Piece	N	G	T	RSA-3000-1C	70
SMA Male R/A Crimp Plug	N	G	T	RSA-3010-C	71
SMA Male R/A Crimp Plug	G	G	T	RSA-3010-1C	64
SMA Female Crimp	N	G	T	RSA-3050-C	72
SMA Female Straight Crimp	G	G	T	RSA-3050-1C	73
SMA Male Clamp Solder Plug	N	G	T	RSA-3100-C	74
SMA Male Right Angle Clamp Plug	N	G	T	RSA-3110-C	75
SMA Female Crimp Bulkhead	N	G	T	RSA-3252-C	76
SMA Femal Crimp Panel Mount, 4-Hole Flange	N	G	T	RSA-3270-C	77
REVERSE THREAD - FCC REG 15					
N Reverse Thread Male Crimp Plug	N	G	T	RT-1005-C	21
TNC Reverse Thread Male Clamp Plug	N	S	T	RT-1200-C	33
TNC Reverse Thread Male Crimp Plug	N	G	D	RT-1202-C	34
SMA Reverse Thread Male Crimp Plug	N	G	T	RT-3000-1C	70
SMA Reverse Thread Female Crimp	G	G	T	RT-3252-1C	78

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