

DBRF195R Riser Flexible Low Loss 50 Ohm Coaxial Cable that is acceptable substitution for RG-58 & RG-142 and uses standard RG-58 Connectors, used for Jumper assemblies in Wireless Communications Systems, Antenna Feeder Runs and any application requiring a Low Loss RF Cable

**Description:** 1/C .037" Gas Injected Foam Polyethylene Insulation, Bonded Aluminum/Polyester/Aluminum Tape, Tinned Copper Copper Braid Shield and FR-PVC Jacket.

**A. Construction:**

- 1.0 Conductor: .037" Solid Bare Copper; OD: .037 Nom. (0.94mm)
- 2.0 Insulation: .0365" Wall Gas Injected Foamed Polyethylene; OD: .110" Nom. (2.79mm)
- 3.0 Shield #1: Aluminum/Polyester/Aluminum –Bonded Tape, 100% Coverage
- 4.0 Shield #2: 36 AWG Tinned Copper Braid 90% Coverage
- 5.0 Jacket: .028" Wall FR-PVC; Color: Black  
OD: .195" Nom. (4.95mm)
- 6.0 Marking: Surface Printed:

GENERAL CABLE (F) DBRF195R -- 50 OHM COAXIAL CABLE 19 AWG  
TYPE CMR c(ETL)us 75C 3084997 – ROHS--MADE IN USA – MM/YY AAAAAA  
XXXXXX FT

MM/YY = month and year of manufacturing  
AAAAA = MFG identification for Traceability  
XXXXXX = sequential footage marking every two feet

**B. Electrical characteristics:**

- 1.0 Capacitance: 25.4 pF/ft Nom. (83.3 pF/m)
- 2.0 Impedance: 50.0 Ω Nom.
- 3.0 Velocity of Propagation: 78% Nom.
- 4.0 Conductor DCR: 7.6 Ω/kft Nom. (24.94 Ω/km)
- 5.0 Shield DCR: 4.89 Ω/kft Nom. (16.04 Ω/km)

E V	DATE	CHANGE DETAIL		<p align="center"><b>General Cable</b> 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122</p>		
		LMR-195-FR-PVC				
			Title:	<b>DBRF195R</b>		
E	09/18/12	Added ROHS to legend-DB	Description:	.037" -- 50 Ohm Broadband Indoor / Riser Coaxial Cable		
D	06/15/12	Revise bend radius / gt				
C	04/20/12	Update elect. & print from HHT UL to GCC ETL /GT	Eng Approval:	GT		
B	07/07/10	Updated Spec to New Format - RZ	Mktg Approval:			
A	12/03/02	Spec released - PF	Final Approval:			PAGE 1 of 2

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- 6.0 Inductance: .064  $\mu$ H/ft (.21  $\mu$ H/m)
- 7.0 Peak Power: 2.5 kW
- 8.0 Voltage Withstanding: 1000 VDC
- 9.0 Jacket Spark: 3000 VRMS
- 10.0 Shield Effectiveness: >90 dB
- 11.0 Cutoff Frequency: 41 GHz
- 12.0 Attenuation: (Nom.)

<u>Frequency</u> (MHz)	<u>Attn.</u> dB/100 ft	<u>Attn.</u> dB/100 m	<u>Avg. Power</u> (KW)
30	2.00	6.56	0.87
50	2.50	8.20	0.69
150	4.40	14.43	0.39
220	5.40	17.71	0.32
450	7.80	25.58	0.22
900	11.10	36.41	0.16
1500	14.50	47.56	0.12
1800	16.00	52.48	0.11
2000	16.90	55.43	0.10
2500	19.00	62.32	0.09
3000	21.10	69.21	0.08
4000	24.90	81.67	0.07
5000	28.30	92.82	0.06
5800	29.90	98.07	0.06
6000	31.00	101.68	0.06



C. **Mechanical Characteristics**

- 1.0 Cable Weight: 24.0 lbs/kft / (35.71 Kg/km)
- 2.0 Bend Radius (Installation): 0.5 inch / (12.7 mm) min
- 3.0 Bend Radius (Repeated): 2.0 inch / (50.8 mm) min
- 4.0 Tensile Strength: 40 Lbs. / (178.0 N)
- 5.0 Operating Temperature: -20°C to +75°C
- 6.0 Storage Temperature: -40°C to +85°C

D. **Agencies Approvals:** UL Standard 444 and NEC Article 800 Type CMR and CSA c(ETL)us.

E. **Flame Rating:** UL Standard 1666 Riser Flame Test.

F. **Compliance:** RoHS Compliant

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