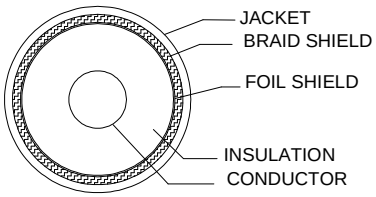
General Cable **PRODUCT DATA SHEET** RoHS Compliant Directive 2002/95/EC

Part Number: **DBRF195P** Revision Level: D Date: 09/25/12

1/C .037" -- 50 Ohm Broadband PLENUM Coaxial Cable



DBRF195P Plenum, Flexible Low Loss 50 Ohm Coaxial Cable that is acceptable substitution for RG-58 & RG-142 used for Jumper assemblies in Wireless Communications Systems, Antenna Feeder Runs and any Application requiring a Low Loss RF Plenum Cable

Description: Gas Injected Foam Fluoropolymer, Bonded Aluminum/Polyester/Aluminum Tape, Tinned Copper Braid Shield and LS-PVC Plenum Jacket.

A. **Construction:**

1.0	Conductor:	Solid Bare Copper; OD: .037 Nom. (0.94mm)
2.0	Insulation:	Gas Injected Foam Fluoropolymer; OD: .110" Nom. (2.79mm)
3.0	Shield #1:	Aluminum/Polyester/Aluminum –Bonded Tape, 100% Coverage
4.0	Shield #2:	Tinned Copper Braid 90% Coverage
5.0	Jacket:	LS-Plenum PVC; Color: TBD; OD: .171" Nom. (4.34mm)
6.0	Marking:	Surface Printed:

GENERAL CABLE (F) DBRF195P -- 50 OHM LOW LOSS COAXIAL CABLE - 19 AWG TYPE
CMP c(ETL)us 3084997 – ROHS -- MADE IN USA MM/YY AAAAA XXXX FT

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

B. **Electrical characteristics:**

1.0	Capacitance:	25.0 pF/ft Nom. (82.0 pF/m)
2.0	Impedance:	50.0 Ω Nom.
3.0	Velocity of Propagation:	80% 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)
6.0	Inductance:	.066 µH/ft (.22 µH/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:	36 GHz

12.0 Attenuation: (Nom.)

Frequency (MHz)	Att. dB/100ft	Attn. dB/100m	Avg. Power (KW)
30	2.00	6.56	0.71
50	2.50	8.20	0.56
150	4.40	14.43	0.32
220	5.30	17.38	0.27
450	7.80	25.58	0.18
900	10.90	35.75	0.13
1500	14.89	48.83	0.09
1800	16.66	54.65	0.08
2000	17.80	58.39	0.08
2500	20.51	67.27	0.07
3400	25.04	82.14	0.06
5800	35.84	117.57	0.04

C. **Mechanical Characteristics**

1.0	Cable Weight:	22.0 lbs/kft / (32.59 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:	-5°C to +75°C
6.0	Storage Temperature:	-10°C to +80°C

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

E. **Flame Rating:** Plenum NFPA 262; Steiner Tunnel and CSA FT6 Flame Test.

F. **RoHS Compliant:** Yes