

DBRF240SF Super-Flexible Low Loss 50 Ohm Coaxial Cable that is used for Jumper assemblies in Wireless Communications Systems, Antenna Feeder Runs and any application requiring a Low Loss RF Cable

**Description:** 1/C 16 AWG Gas Injected Foam Polyethylene Insulation, Bonded Aluminum/Polyester/Aluminum Tape, Tinned Copper Braid Shield and TPE- Thermoplastic Elastomer Jacket.

**A. Construction:**

- 1.0 Conductor: 16 AWG 7 Strand Bare Copper; OD: .056 Nom. (1.42mm)
- 2.0 Insulation: Gas Injected Foamed Polyethylene; OD: .150" Nom. (3.81mm)
- 3.0 Shield #1: Aluminum/Polyester/Aluminum –Bonded Tape, 100% Coverage
- 4.0 Shield #2: Tinned Copper Braid 90% Coverage
- 5.0 Jacket: .032" Wall Flexible TPE-Thermoplastic Elastomer; Color: Black  
OD: .240" Nom. (6.10mm)
- 6.0 Marking: Surface Printed:  
GENERAL CABLE (F) DBRF-240SF -- 16 AWG FLEXIBLE 50 OHM COAXIAL  
CABLE - ROHS--MADE IN USA – MM/YY AAAAAA XXXXXFT

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: 24.3 pF/ft Nom. (79.72 pF/m)
- 2.0 Impedance: 50.0 Ohms Nom.
- 3.0 Velocity of Propagation: 84% Nom.
- 4.0 Conductor DCR: 3.84 Ohms/Mft Nom. (12.60 Ohms/1000m)
- 5.0 Shield DCR: 3.89 Ohms/Mft Nom. (12.76 Ohms/1000m)

REV	DATE	CHANGE DETAIL		<b>General Cable</b> 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122	
		LMR-240UF			
			Title:	<h1 style="text-align: center;">DBRF240SF</h1>	
E	09/18/12	Added ROHS to legend-DB	Description:		
D	06/15/22	Edit bend radius / gt	16 AWG -- 50 Ohm Broadband Flexible Indoor/Outdoor Coaxial Cable		
C	02/17/12	Edit print & spec / GT	Drawn By:		
B	09/22/11	Chg print form HHT to GCC / GT	Mktg Approval:		
A	08/28/06	Updated Format Initial Release - TS	Final Approval:	GT	PAGE 1 of 2

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- 6.0 Inductance: .060 uH/ft (.197 uH/m)
- 7.0 Peak Power: 5.6 kW
- 8.0 Voltage Withstanding: 1500 VDC
- 9.0 Jacket Spark: 5000 VRMS
- 10.0 Shield Effectiveness: >90 dB
- 11.0 Attenuation: (Nom.)

Frequency (MHz)	dB/100 ft.	dB/100m	AVG. Power kW
30	1.6	5.3	1.24
50	2.1	6.9	0.96
150	3.6	11.8	0.55
220	4.4	14.5	0.45
450	6.3	20.7	0.31
900	9.1	29.9	0.22
1500	11.8	38.7	0.17
1800	13.0	42.7	0.15
2000	13.8	45.3	0.14
2500	15.5	50.9	0.13
5800	24.4	80.1	0.08

**C. Mechanical Characteristics**

- 1.0 Cable Weight: 34.0 Lbs/Mft 51 kg/km
- 2.0 Bend Radius (Installation): 0.75 inch / (19.1 mm) min
- 3.0 Bend Radius (Repeated): 2.5 inch / (63.5 mm) min
- 4.0 Tensile Strength: 80 Lbs. / (356.0 N)
- 5.0 Operating Temperature: -40°C to +75°C
- 6.0 Storage Temperature: -70°C to +80°C

**D. Compliance: RoHS Compliant**

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