

**Description:** 1/C .037" Gas Injected Foam Polyethylene Insulation, Bonded Aluminum/Polyester/Aluminum Tape, Tinned Copper Braid Shield and Polyethylene 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: Bonded Aluminum/Polyester/Aluminum Tape, 100% Coverage
- 4.0 Shield #2: 36 AWG Tinned Copper Braid 90% Coverage
- 5.0 Jacket: .028" Wall Polyethylene; Color: Black  
OD: .195" Nom. (4.95mm)
- 6.0 Marking: Surface Printed:  
HELIX/HITEMP (F) DBRF195 19 AWG XXXXXXfeet\*  
XXXXXXfeet\*: Indicates Sequential Footage Marking Every Two Feet

**B. Electrical characteristics:**

- 1.0 Capacitance: 24.3 pF/ft Nom. (79.7 pF/m)
- 2.0 Impedance: 50.0  $\Omega$  Nom.
- 3.0 Velocity of Propagation: 80% Nom.
- 4.0 Conductor DCR: 7.6  $\Omega$ /kft Nom. (24.94  $\Omega$ /km)
- 5.0 Shield DCR: 4.89  $\Omega$ /kft Nom. (16.04  $\Omega$ /km)
- 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: 2500 VRMS
- 10.0 Shield Effectiveness: >90 dB
- 11.0 Cutoff Frequency: 41 GHz

R E V	DATE	CHANGE DETAIL		<b>General Cable</b> 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122		
		HHT CO19C0012201				
			Title:	<b>DBRF195</b>		
			Description:	19 AWG 50 $\Omega$ Broadband Communication Cable		
			Eng Approval:			
B	9/8/05	Update Spec to New Format - RZ	Mktg Approval:			
A	8/31/04	Spec released - RZ	Final Approval:			PAGE 1 of 2


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12.0 Attenuation: (Nom.)

<u>Frequency (MHz)</u>	<u>dB/100 ft.</u>	<u>dB/100m</u>	<u>AVG. Power kW</u>
30	1.72	5.66	0.90
50	2.23	7.31	0.70
150	3.87	12.71	0.40
220	4.70	15.42	0.33
450	6.75	22.14	0.23
900	9.60	31.50	0.16
1500	12.46	40.89	0.12
1800	13.69	44.90	0.11
2000	14.45	47.40	0.11
2500	16.21	53.18	0.10
3000	17.81	58.43	0.09
4000	20.68	67.84	0.07
5000	23.23	76.20	0.07
5800	25.10	82.36	0.06
6000	25.55	83.84	0.06

C. Mechanical Characteristics

1.0	Cable Weight:	21.0 lbs/kft (93.4 N/km)
2.0	Minimum Bend Radius:	1 inches (25.4 mm)
3.0	Tensile Strength:	40 lbs (177.9 N)
4.0	Operating Temperature:	-60°C to +80°C

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