



# WIRELESS BROADBAND

## 50 OHM COMMUNICATIONS CABLE



**APPLICATION:**

Used in jumper assemblies in wireless communications systems, antenna feeder runs and any application requiring a low loss RF cable (e.g. mobile antennas, LMR, GPS and WLL).

**INSULATION:**

Gas Injected Foam Polyethylene or \*Solid Polyethylene

PLENUM: Gas Injected Foam Plenum Dielectric

**SHIELD:**

Bonded Aluminum/Polyester/Aluminum Tape (100% coverage) and Tinned Copper Braid (90% minimum coverage)

BLOCKING: (FLD only): Braid Voids Filled with Flooding Compound

**JACKET:**

Black Polyethylene (PE) or \*Black Polyvinylchloride (PVC)

PLENUM: Black Plenum Polyvinylchloride (PVC)

**OPERATING TEMPERATURE:** -40°C to +80°C

INDOOR RISER: -20°C to +80°C

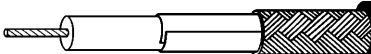
PLENUM: -10°C to +75°C

**RATING:** STANDARD & FLOODED OUTDOOR: N/A

INDOOR RISER: BMR/CMR/CATVR

PLENUM: CMP/CATP

Delco Part No.	Conductor			Insulation Diameter		Nominal Diameter		Nominal Capacitance		Nominal Weight	
	Type	inch	mm	inch	mm	inch	mm	pf/ft	pf/m	lbs/mft	kgs/km
*DBRF-100A	Solid Bare Copper Clad Steel	.018	.46	.060	1.52	.110	2.79	30.8	101.0	15	22
DBRF-195	Solid Bare Copper	.037	.94	.110	2.79	.195	4.95	24.3	79.7	21	31
	#DBRF-195FLD - Flooded Outdoor			#DBRF-195P - Plenum			#DBRF-195R - Indoor Riser				
DBRF-200	Solid Bare Copper Clad Aluminum	.044	1.12	.116	2.95	.195	4.95	24.5	80.4	23	34
	#DBRF-200FLD - Flooded Outdoor			#DBRF-200P - Plenum			#DBRF-200R - Indoor Riser				
DBRF-240	Solid Bare Copper	.056	1.42	.150	3.81	.240	6.10	24.3	79.7	53	79
	#DBRF-240FLD - Flooded Outdoor			#DBRF-240P - Plenum			#DBRF-240R - Indoor Riser				
DBRF-300	Solid Bare Copper	.070	1.78	.190	4.83	.300	7.62	24.0	78.7	58	86
	#DBRF-300FLD - Flooded Outdoor			#DBRF-300P - Plenum			#DBRF-300R - Indoor Riser				
DBRF-400	Solid Bare Copper Clad Aluminum	.108	2.74	.285	7.24	.405	10.29	23.5	77.1	70	104
	#DBRF-400FLD - Flooded Outdoor			#DBRF-400P - Plenum			#DBRF-400R - Indoor Riser				
DBRF-500	Solid Bare Copper Clad Aluminum	.142	3.61	.370	9.40	.500	12.70	23.5	77.1	97	125
	#DBRF-500FLD - Flooded Outdoor			#DBRF-500P - Plenum			#DBRF-500R - Indoor Riser				
DBRF-600	Solid Bare Copper Clad Aluminum	.176	4.47	.455	11.56	.590	14.99	23.4	76.8	132	197
	#DBRF-600FLD - Flooded Outdoor			#DBRF-600P - Plenum			#DBRF-600R - Indoor Riser				





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## ELECTRICAL CHARACTERISTICS



Delco Part No.	Conductor DCR		Shield DCR		V of P	Inductance (uH/ft)	Peak Power (kW)	Voltage Withstanding (VDC)	Jacket Spark (VRMS)	Shield Effectiveness (dB)	Cutoff Freq. (GHz)
	ohms/mft	ohms/km	ohms/mft	ohms/km							
DBRF-100A	81.0	265.7	14.5	47.6	66%	.077	.6	500	2000	>90	90
DBRF-195	7.6	24.9	4.89	16.04	80%	.064	2.5	1000	2500	>90	41
DBRF-200	5.36	17.59	4.89	16.04	83%	.061	2.5	1000	3000	>90	39
DBRF-240	3.2	10.5	3.89	12.76	84%	.060	5.6	1500	5000	>90	31
DBRF-300	2.12	6.96	2.21	7.25	85%	.060	10	2000	5000	>90	24.5
DBRF-400	1.39	4.56	1.65	5.41	85%	.059	16	2500	8000	>90	16.2
DBRF-500	.82	2.69	1.27	4.17	86%	.059	22	3000	8000	>90	12.6
DBRF-600	.53	1.74	1.2	3.9	87%	.058	40	4000	8000	>90	10.3

## ATTENUATION

dB/100 ft (dB/100 m)

MHz	DBRF-100A	DBRF-195	DBRF-200	DBRF-240	DBRF-300	DBRF-400	DBRF-500	DBRF-600
30	3.78 (12.40)	1.72 (5.64)	1.50 (4.92)	1.17 (3.84)	0.94 (3.08)	0.61 (2.00)	0.47 (1.54)	0.38 (1.25)
50	4.89 (16.04)	2.23 (7.32)	1.94 (6.36)	1.52 (4.99)	1.21 (3.97)	0.79 (2.59)	0.61 (2.00)	0.49 (1.61)
150	8.52 (27.95)	3.87 (12.70)	3.36 (11.04)	2.64 (8.66)	2.11 (6.92)	1.39 (4.56)	1.07 (3.51)	0.87 (2.85)
220	10.35 (33.96)	4.70 (15.42)	4.08 (13.39)	3.20 (10.50)	2.56 (8.40)	1.69 (5.54)	1.30 (4.27)	1.06 (3.48)
450	14.92 (48.95)	6.75 (22.15)	5.87 (19.26)	4.61 (15.12)	3.69 (12.11)	2.44 (8.01)	1.88 (6.17)	1.54 (5.05)
900	21.34 (70.01)	9.60 (31.50)	8.35 (27.39)	6.57 (21.55)	5.27 (17.29)	3.50 (11.48)	2.71 (8.89)	2.23 (7.32)
1500	27.85 (91.37)	12.46 (40.88)	10.85 (35.60)	8.55 (28.05)	6.87 (22.54)	4.59 (15.06)	3.57 (11.71)	2.94 (9.65)
1800	30.64 (100.52)	13.69 (44.91)	11.91 (39.07)	9.39 (30.81)	7.56 (24.80)	5.06 (16.60)	3.94 (12.93)	3.25 (10.66)
2000	32.39 (106.27)	14.45 (47.41)	12.58 (41.27)	9.92 (32.55)	7.99 (26.21)	5.35 (17.55)	4.17 (13.68)	3.44 (11.29)
2500	36.45 (119.59)	16.21 (53.18)	14.12 (46.32)	11.15 (36.58)	8.99 (29.49)	6.04 (19.82)	4.72 (15.49)	3.90 (12.80)
3000	40.16 (131.76)	17.81 (58.43)	15.52 (50.92)	12.26 (40.22)	9.90 (32.48)	6.66 (21.85)	5.22 (17.13)	4.32 (14.17)
4000	46.84 (153.67)	20.68 (67.85)	18.02 (59.12)	14.27 (46.82)	11.53 (37.83)	7.80 (25.59)	6.13 (20.11)	5.10 (16.73)
5000	52.84 (173.36)	23.23 (76.21)	20.26 (66.47)	16.06 (52.69)	13.00 (42.65)	8.82 (28.94)	6.96 (22.83)	5.80 (19.03)
5800	57.28 (187.92)	25.10 (82.35)	21.90 (71.85)	17.37 (56.99)	14.08 (46.19)	9.58 (31.43)	7.57 (24.84)	6.32 (20.73)
6000	58.34 (191.40)	25.55 (83.82)	22.30 (73.16)	17.69 (58.04)	14.34 (47.05)	9.77 (32.05)	7.72 (25.33)	6.45 (21.16)

