

# D-FB系列50欧姆编织同轴电缆

## D-FB Series 50Ω Braiding Coaxial Cables

结构尺寸 Construction								
项目 Item	3D-FB	4D-FB	5D-FB	7D-FB	8D-FB	10D-FB	12D-FB	
1 内导体 Inner Conductor(mm)	1.07	1.42	1.80	2.60	2.80	3.50	4.40	
2 绝缘体 Dielectric(mm)	3.00	3.80	5.00	7.30	7.80	10.00	12.40	
3 第一层屏蔽 First Shield(mm)	3.16	3.94	5.20	7.50	8.00	10.20	12.60	
4 第二层屏蔽 Second Shield(mm)	3.66	4.52	5.78	8.10	8.70	11.00	13.60	
5 护套 Jacket(mm)	5.40	6.10	7.50	9.80	10.60	13.00	15.60	
电气性能 Electrical Characteristics								
项目 Item	3D-FB	4D-FB	5D-FB	7D-FB	8D-FB	10D-FB	12D-FB	
特性阻抗 Impedance(Ω)	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2	
电容 Capacitance(pF / m)	82 ± 2	82 ± 2	82 ± 2	82 ± 2	82 ± 2	82 ± 2	82 ± 2	
速率 Velocity of Propagation(%)	81.00	81.00	82.00	82.00	82.00	82.00	81.00	
回波损耗 Return Loss(dB)	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	
屏蔽衰减 Screening Effectiveness(dB)	≥ 90	≥ 90	≥ 90	≥ 90	≥ 90	≥ 90	≥ 90	
内导体直流电阻 Inner Conductor DCR (Ohm/km)	10.50	19.20	6.90	3.30	2.90	1.80	1.20	
外导体直流电阻 Outer Shield DCR(Ohm/km)	12.80	16.30	13.50	11.50	9.30	5.30	3.50	
介电强度 Dielectric Strength(KV)	1.60	1.60	1.60	1.60	1.60	1.60	1.60	
护套耐压 Voltage Withstand(Volts DC)	1500.0	1000.00	2000.00	2500.00	2500.00	3000.00	4000.00	
火花试验 Spark Test(VRMS)	5000.0	3000.00	5000.00	5000.00	8000.00	8000.00	8000.00	
工作温度范围 Operating Temp Range(°C)	-40°C ~ 70°C							
衰减 Attenuation ( @ 20°C)								
衰减 Max Attenuation (dB/100m)		3D-FB	4D-FB	5D-FB	7D-FB	8D-FB	10D-FB	12D-FB
	100MHz	10.4	8.7	6.3	4.3	4.1	3.2	2.7
	150MHz	13.0	10.0	7.8	5.4	5.1	4.1	3.6
	350MHz	19.5	16.5	12.2	8.4	8.1	6.3	5.2
	400MHz	21.5	17.5	13.0	9.0	8.7	7.0	6.0
	800MHz	30.2	23.6	18.9	12.8	12.9	10.2	8.5
	900MHz	31.8	24.5	20.0	14.1	13.8	11.0	9.3
	1800MHz	45.6	37.2	29.7	21.4	20.8	16.8	13.7
	1900MHz	46.8	37.9	31.3	22.2	21.5	17.4	14.2
	2000MHz	48.2	38.7	32.5	23.2	22.1	18.0	14.6
2500MHz	54.0	43.1	35.8	25.6	25.4	20.5	16.6	
电压驻波比 VSWR								
电压驻波比 VSWR Max	800-2500MHz	1.25						
	100-480MHz	1.15	1.15	1.15	1.15	1.15	1.15	
	800-1900MHz	1.15	1.15	1.15	1.15	1.15	1.15	
	1900-2500MHz	1.20	1.20	1.20	1.20	1.20	1.20	