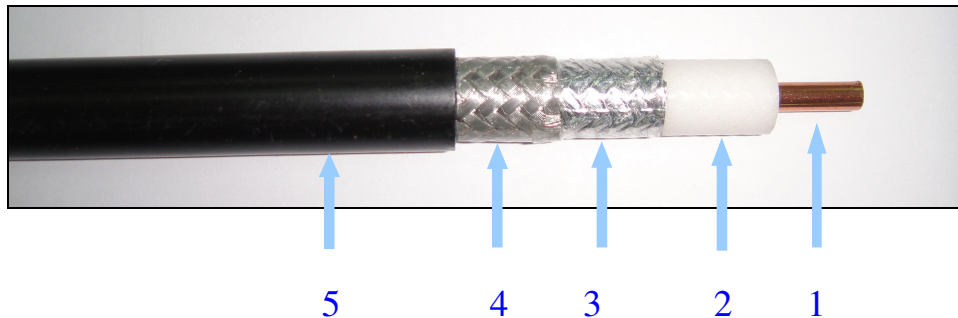


Flexible Low Loss Coaxial Cables

Application

The cables used in wireless communication systems.

Structure



- ❶ Inner conductor-Annealed copper wire or copper clad aluminum wire
- ❷ Dielectric-Foam polyethylene
- ❸ Shielding-Sealed APA tape
- ❹ Braiding-tinned copper wire or aluminum alloy wire
- ❺ Sheath-Non-lean PVC 、 Polyethylene 、 low smoke free halogen compound

Property

- ◆ Low transmission loss
- ◆ Low reflection loss
- ◆ Characteristic impedance is 50 ohm
- ◆ Weight lightly, easy to delivery and installation
- ◆ Comply with EU RoHS compliant.

Size

2.8D 、 3D 、 4D 、 5D 、 8D 、 10D 、 12D, more.....

1. Construction

Type \ Item	Inner conductor		Dielectric		Outer conductor				Sheath		
	Dia. mm	Material	Dia. mm	Material	Dia. mm	Shielding Material	Braiding Material	Coverage %	Dia. mm	Color	Material
2.8D-FB	0.94	ACW	2.79	Foam PE	3.4	APA	TCW	85	4.9	BK	PE or NL PVC or LSFH PE
3D-FB	1.12	ACW	2.95	Foam PE	3.6	APA	TCW	85	4.95	BK WT	
4D-FB	1.42	ACW	3.81	Foam PE	4.5	APA	TCW	83	6.1	BK	
4D-FB (Flexible)	1.44 (19/0.287)	ACW	3.94	Foam PE	4.6	APA	TCW	83	6.2	BK	
5D-FB	1.78	ACW	4.84	Foam PE	5.7	APA	TCW	85	7.6	BK	
8D-FB	2.74	CCA	7.24	Foam PE	8.1		TCW	85	10.3	BK	
8D-FBV	2.74	CCA	7.24	Foam PE	8.1	APA	Alloy wire	92	10.3	BK	
8D-FB (Flexible)	2.85 (7/0.95)	ACW	7.24	Foam PE	8.2	APA	TCW	87	10.3	BK	
8D-FBV (Flexible)	2.85 (7/0.95)	ACW	7.24	Foam PE	8.2	APA	Alloy wire	87	10.3	BK	
8D-FB (Super flexible)	2.86 (19/0.57)	ACW	7.24	Foam PE	8.6	APA	TCW TCW	93	10.6	BK	
10D-FB	3.61	CCA	9.4	Foam PE	10.3	APA	TCW	85	12.7	BK	
10D-FBV	3.61	CCA	9.4	Foam PE	10.3	APA	Alloy wire	95	12.7	BK	
12D-FB	4.47	CCA	11.57	Foam PE	12.6	APA	TCW	92	15.0	BK	
12D-FBV	4.47	CCA	11.57	Foam PE	12.5	APA	Alloy wire	92	15.0	BK	

* ACW: Annealed Copper Wire

*.CCA: Copper Clad Aluminum Wire

* APA: Aluminum/Polyester/Aluminum tape

*. TCW: Tinned Copper wire

2. Mechanical properties

Size \ Item	Bending radius mm	Cable weight (kg/m)			Tensile force kg	Temperature ℃
		PE	NL PVC	LSFH		
2.8D-FB	12.7	0.031	0.036	0.037	≤18.2	-40 ~ +85
3D-FB	12.7	0.035	0.040	0.041	≤18.2	-40 ~ +85
4D-FB	19.1	0.050	0.057	0.058	≤36.3	-40 ~ +85
4D-FB (Flexible)	19.1	0.048	0.055	0.056	≤36.3	-40 ~ +85
5D-FB	22.2	0.074	0.085	0.087	≤54.5	-40 ~ +85
8D-FB	25.4	0.111	0.130	0.134	≤72.6	-40 ~ +85
8D-FBV	25.4	0.082	0.098	0.102	≤72.6	-40 ~ +85
8D-FB (Flexible)	25.4	0.137	0.154	0.157	≤72.6	-40 ~ +85
8D-FBV (Flexible)	25.4	0.111	0.130	0.132	≤72.6	-40 ~ +85
8D-FB (Super flexible)	25.4	0.191	0.208	0.211	≤72.6	-40 ~ +85
10D-FB	31.8	0.172	0.194	0.199	≤118.0	-40 ~ +85
10D-FBV	31.8	0.128	0.150	0.155	≤118.0	-40 ~ +85
12D-FB	38.1	0.242	0.270	0.276	≤158.9	-40 ~ +85
12D-FBV	38.1	0.166	0.195	0.202	≤158.9	-40 ~ +85

3. Electrical properties (at 20℃) :

Item Size	Conductor resistance Nom. Ω/km	Characteristics impedance @ 200MHz Nom. Ω	Velocity of propagation nom %	VSWR (**) max.	Capacitance Nom pF/m	Dielectric strength AC. V/1min
2.8D-FB	24.9	50	76	1.3	83	1000
3D-FB	17.59	50	83	1.3	80	1000
4D-FB	10.5	50	84	1.3	79	1500
4D-FB (Flexible)	14.3	50	84	1.3	79	1500
5D-FB	6.96	50	85	1.3	77	2000
8D-FB 8D-FBV	4.56	50	85	1.3 1.5	78	2500
8D-FB 8D-FBV (Flexible)	5.5	50	85	1.3 1.5	78	2500
8D-FB (Super flexible)	3.51	50	85	1.3	78	2500
10D-FB 10D-FBV	CCAW 2.69	50	86	1.3 1.5	77	3000
10D-FB	ACW 1.68			1.3		
12D-FB	1.74	50	87	1.3	77	4000
12D-FBV	1.74	50	87	1.5	77	4000

※VSWR test frequency(810~960、1300~1400、1500~1600、1710~1885、1915~2025、2100~2200、2400~2500MHz)

Item Size	Attenuation (dB/100m)										
	30 MHz	50 MHz	150 MHz	220 MHz	450 MHz	900 MHz	1500 MHz	1800 MHz	2000 MHz	2500 MHz	5800 MHz
2.8D-FB	6.5	8.4	14.6	17.7	25.5	36.5	47.7	52.5	55.4	62.4	98.1
3D-FB	5.8	7.5	13.1	15.9	22.8	32.6	42.4	46.6	49.3	55.4	86.5
4D-FB	4.6	5.7	9.9	12.0	17.3	24.8	32.4	35.6	37.7	42.4	66.8
4D-FB (Flexible)	5.3	6.8	11.9	14.4	20.8	29.8	38.9	42.8	45.2	50.9	80.1
5D-FB	3.5	4.5	7.9	9.6	13.8	19.9	26.0	28.7	30.3	34.2	54.3
8D-FB(V)	2.4	3.0	5.0	6.1	8.9	12.8	16.8	18.6	19.6	22.2	35.5
8D-FB(V) (Flexible)	2.6	3.3	5.6	6.9	10.2	15.4	20	---	23.6	---	---
8D-FB (Super flexible)	2.7	3.5	6.1	7.4	10.7	15.4	20.2	22.3	23.6	26.6	42.6
10D-FB(V)	1.8	2.3	4.0	4.9	7.1	10.3	13.6	15.0	15.9	18.0	29.1
12D-FB(V)	1.6	2.0	3.2	3.9	5.6	8.2	10.9	12.1	12.8	14.5	23.8

The maximum value shall not exceed nominal value of 115%.