

Ningbo Youxin Optic-Electronic Technology Co.,Ltd

Producing and testing standard of F6

1. Applying scope:

Using in F6 producing and testing

2. Demands

2.1 Specifications(In conformity with following table)

		F660B V	F6T5V	F660B VF	F660BVM	F690B V	F690BV M	
Inner conductor		1.02 ± 0.01mm CCS OR BC						CCS rate of velocity 20%
Insulation		4.57 ± 0.05mm						Weight control about 4.8~5.8g/m
Out conductor	Al foil	Bonded Foil						Thickness 0.04 ± 0.005mm
	Braiding	4*16/0.16 ± 0.005mm AL				6*16/0.16 ± 0.005mm AL		4~6 mm/
	Al foil	/	Single Foil Tape	/			Thickness 0.052 ± 0.003mm	
Jelly				Yes				
Out jacket		6.80 ± 0.1mm	7.06 ± 0.1mm	6.80 ± 0.005mm				Look at the technical of out jacket
Messenger		/	/	/	1.3 ± 0.1mm Steel wire	/	1.3 ± 0.1mm 1 wire	

2.2 Electronic performance (In conformity with following table)

Type	(Ω) Impedance	Attenuation		
			CCS(≤DB/305M)	BC(≤DB/305M)
F6	75 ± 3	5MHz	10.98	5.80
		55MHz	16.01	16.01
		211MHz	30.5	30.5
		450MHz	44.01	44.01
		550MHz	49.04	49.04
		750MHz	56.55	56.55
		865MHz	61.03	61.03
		1000MHz	65.54	65.54

3. Testing method

3.1 3% Percent is 3%

3.2 Testing method of physical dimensions: Choose three points, every point tests twice, turn 90 accordingly, and calculates the average of six numbers

3.3 Testing impedance method: 200Mhz testing according to $Z_0 = 1/2 * 1/FC * 10^6$

The quality standard of raw materials

1. PVC

	unit	65°	70°	70° (UV)	60° (UL)	75° (UL)
luster of surface		luster of surface, the same color with same material				
specific gravity	$\geq \text{g/cm}^3$	1.5	1.4	1.44	1.44	1.44
spread strength	$\leq \text{MPa}$	8.9	12	15	15	18
not continuous elongation	$\geq \%$	250	310	310	310	310
pellet of surface	$\leq \text{Piece/cm}^2$	0.01	No0.005	no0.005	no0.005	no0.005
oxygen index				28-29	28-29	28-29
heat maturing time	H	168	168	168	168	168
heat maturing thermograph	°C	100	100	100	100	100
hot become deformed	$\leq \%$	22	24	22	24	24
low temperature strike brittle thermograph	°C	-25	-25	-25	-25	-25
200°C heat constant time	$\geq \text{Min}$	80	95	95	95	95
20°C volume resistance	$\geq \Omega \cdot \text{m}$	1×10^{11}	6×10^{10}	6×10^{10}	6×10^{10}	6×10^{10}

2. PE

	unit	
luster of surface		luster of surface, the same color with same material
specific gravity	$\geq \text{g/cm}^3$	0.92-0.95
spread strength	$\leq \text{MPa}$	≥ 14
not continuous elongation	$\geq \%$	≥ 600
pellet of surface	$\leq \text{Piece/cm}^2$	0.01
heat maturing time	H	720
heat maturing thermograph	°C	120
low temperature strike brittle thermograph	°C	-30
200°Cant time	$\geq \text{Min}$	30
20°C volume resistance	$\geq \Omega \cdot \text{m}$	1×10^{14}

1. Aluminum Alloy wire

3.1 Consist:

Al% : Cr% : Mg% : Si% = Al% : \leq 剩 余 remain % : 3.1-3.9% : 0.5%

2. AL Foil

4.1 Weight

RG6-1.0KGS/KM, F59-1.1KGS/KM, F6-1.3KGS/KM, F7-1.6KGS/KM, F11-2.0KGS/KM