

Ningbo Youxin Optic-Electronic Technology Co.,Ltd

Producing and testing standard of F11

1. Applying scope:

Using in F11 producing and testing

2. Demands

2.1 Specifications (In conformity with following table)

		F1160B V	F1160BVM	F1160B VF	F1190BV	F1190BVM		
Inner conductor		1.63 ± 0.01mm CCS OR BC					CCS rate of velocity 20%	
Insulation		7.11 ± 0.05mm					Weight control about 9.6~11.0g/m	
Out conductor	Al foil	Bonded Foil					Thickness 0.052 ± 0.003mm	
	Braiding	6*16/0.16 ± 0.005mm AL			6*24/0.16 ± 0.005mm AL		4~6 mm	
	Al foil	/					/	
Jelly		/		Yes	/			
Out jacket		10.03 ± 0.2mm					Look at the technical of out jacket	
Messenger		/	1.83 ± 0.1mm Steel wire	/	/	1.83 ± 0.1mm Steel wire		

2.2 Electronic performance (In conformity with following table)

Type	(Ω) Impedance	Attenuation		
			CCS(≤DB/100M)	BC(≤DB/305M)
F11	75 ± 3	5MHz	6.71	3.82
		55MHz	9.61	9.61
		211MHz	19.00	19.00
		450MHz	27.51	27.51
		550MHz	30.41	30.41
		750MHz	36.51	36.51
		865MHz	39.80	39.80
		1000MHz	43.52	43.52

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	≥g/cm ³	1.5	1.4	1.44	1.44	1.44
spread strength	≤MPa	8.9	12	15	15	18
not continuous elongation	≥%	250	310	310	310	310
pellet of surface	≤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	≤%	22	24	22	24	24
low temperature strike brittle thermograph	°C	-25	-25	-25	-25	-25
200°C heat constant time	≥Min	80	95	95	95	95
20°C volume resistance	≥Ω.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	≥g/cm ³	0.92-0.95
spread strength	≤MPa	≥14
not continuous elongation	≥%	≥600
pellet of surface	≤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	≥Min	30
20°C volume resistance	≥Ω.m	1*10 ¹⁴

1. Aluminum Alloy wire

3.1 Consist:

Al% : Cr% : Mg% : Si% = Al% : ≤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