

Ningbo Youxin Optic-Electronic Technology Co.,Ltd

Producing and testing standard of RG 6

1. Applying scope:

Using in RG 6 producing and testing

2. Demands

Specifications(In conformity with following table)

Inner conductor		1.00±0.01mm CCS	CCS rate of velocity 18%
Insulation		4.8±0.1mm	Weight control about 5.8~6.7g/m
Out conductor	Al foil	Single Foil Tape	Thickness 0.04±0.005mm
	Braiding	3*16/0.12±0.005mm	4~6 mm/
Out jacket		6.80±0.1m	Look at the technical of out jacket

2.2 Electronic performance (In conformity with following table)

Type	(Ω) Impedance	Attenuation	
			(≤DB/100M)
RG6	72-83	5MHz	4.2
		55MHz	5.3
		211MHz	10.0
		450MHz	14.4
		550MHz	16.2
		750MHz	19.0
		865MHz	20.6
		1000MHz	22.2

3. Testing method

3.1 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