

Ningbo Youxin Optic-Electronic Technology Co.,Ltd

Producing and testing standard of F59

1. Applying scope:

Using in F59 producing and testing

2. Demands

Specifications(In conformity with following table)

| | | | |
|-----------------|----------|-------------------------|-------------------------------------|
| Inner conductor | | 0.81 ± 0.01mm CCS OR BC | CCS rate of velocity 20% |
| Insulation | | 3.66 ± 0.05mm | Weight control about 3.0~4.0g/m |
| Out conductor | Al foil | Bonded Foil | Thickness 0.052 ± 0.003mm |
| | Braiding | 3*16/0.16 ± 0.005mm | 4~6 mm/ |
| Out jacket | | 6.00 ± 0.1mm | Look at the technical of out jacket |

2.2 Electronic performance (In conformity with following table)

| Type | (Ω) Impedance | Attenuation | |
|------|----------------|-------------|------------|
| | | | (≤DB/305M) |
| F59 | 75 ± 3 | 5MHz | 14.34 |
| | | 55MHz | 20.53 |
| | | 211MHz | 38.03 |
| | | 450MHz | 54.05 |
| | | 550MHz | 59.54 |
| | | 750MHz | 69.75 |
| | | 865MHz | 75.24 |
| | | 1000MHz | 81.25 |

3. Testing method

3.1 3Percent 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