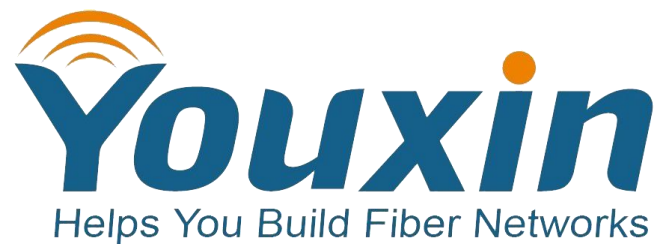


Ningbo Youxin Optic-Electronic Technology Co.,LIMITED

The producing and testing standard
Of YOUXIN coaxial cables



Carry out on April 1th, 2011

Catalogue

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Producing and testing standard of RG 6

1. Applying scope:

Using in RG 6 producing and testing

2. Demands

2.1 Specifications(In conformity with following table)

Inner conductor		1.00±0.01mm CCS OR BC	CCS rate of velocity 20%
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±0.5mm	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. esting method

3.1 Percent is 3%

3.2 esting 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 $Z_0=1/2*1/FC*10^6$

Producing and testing standard of F59

1. Applying scope:

Using in F59 producing and testing

2. Demands

2.1 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	
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 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 $Z_0 = 1/2 * 1/FC * 10^6$

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	F6TSV	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 Steel 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 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 $Z_0=1/2*1/FC*10^6$

Producing and testing standard of F7

1. Applying scope:

Using in F7 producing and testing

2. Demands

2.1 Specifications(In conformity with following table)

		F760BV	
Inner conductor		1.29 ± 0.01mm CCS OR BC	CCS rate of velocity 20%
Insulation		5.7 ± 0.1mm	Weight control about 6.9~8.8g/m
Out conductor	Al foil	Bonded Foil	Thickness 0.052 ± 0.003mm
	Braiding	5*16/0.16 ± 0.005mm AL	4~6 mm
	Al foil	/	/
Jelly		/	
Out jacket		8.0 ± 0.2mm	Look at the technical of out jacket
Messenger		1.83 ± 0.1mm 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)
F7	75 ± 3	5MHz	8.54	4.70
		55MHz	12.51	12.51
		211MHz	23.61	23.61
		450MHz	34.62	34.62
		550MHz	38.52	38.52
		750MHz	45.72	45.72
		865MHz	49.32	49.32
		1000MHz	53.22	53.22

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 $Z_0 = 1/2 * 1/FC * 10^6$

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 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 $Z_0=1/2*1/FC*10^6$

Producing and testing standard of F15

1. Applying scope:

Using in F15 producing and testing

2. Demands

2.1 Specifications (In conformity with following table)

		F1560BV	F1560BVM	F1560B EF	F1560BEM	
Inner conductor		2.77±0.03mm CCA				
Insulation		11.5±0.3mm				Weight control about 24~28g/m
Out conductor	Al foil	Bonded Foil				Thickness 0.052±0.003mm
	Braiding	6*24/0.18±0.005mm AL				4~6 mm
	Al foil	/				/
Jelly		/		Yes	/	
Out jacket		15.0±0.3mm PVC	15.0±0.3mm PVC	15.0±0.3mm PE	15.0±0.3mm PE	Look at the technical of out jacket
Messenger		/	2.77±0.1mm Steel wire	/	2.77±0.1mm Steel wire	

2.2 Electronic performance (In conformity with following table)

Type	(Ω) Impedance	Attenuation	
			(≤DB/305M)
F11	75±3	5MHz	3.15
		55MHz	6.65
		211MHz	13.65
		450MHz	21.00
		550MHz	22.75
		750MHz	25.90
		865MHz	28.35
		1000MHz	32.20

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	\geq g/cm ³	1.5	1.4	1.44	1.44	1.44
spread strength	\leq MPa	8.9	12	15	15	18
Not continuous elongation	\geq %	250	310	310	310	310
pellet of surface	\leq 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 Min	80	95	95	95	95
20°C volume resistance	\geq Ω.m	1*10 ¹¹	6*10 ¹⁰	6*10 ¹⁰	6*10 ¹⁰	6*10 ¹⁰

2. PE

	unit	Claim
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	$^{\circ}\text{C}$	120
low temperature strike brittle thermograph	$^{\circ}\text{C}$	-30
200 $^{\circ}\text{C}$ heat constant time	$\geq \text{Min}$	30
20 $^{\circ}\text{C}$ volume resistance	$\geq \Omega \cdot \text{m}$	1×10^{14}

3. Aluminum Alloy wire

3.1 Consist:

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

4. 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

F15-3.2KGS/KM