

# 50 ohms Braiding Type Coaxial Cable

( Size range: 5D ~ 12 D )

## Applications:

- Land wireless bleeping system
- Feed line for land mobile communication and radio communication antenna
- Optical cable for connecting the base station and antenna
- Wireless telephone, bleeping station and all kinds of network communication.
- Connecting inner equipment

## Description: :

Compact structure and low-loss PE foaming dielectric matter ensure the perfect performance of the optical cable.

The high flexible shielding ensures the shielding properties and excellent bending properties.

Specifications						
Type		5D-FB	7D-FB	8D-FB	10D-FB	12D-FB
Inner Conductor	Material	Solid copper or Copper -clad aluminum				
	Diameter ( mm )	1.80	2.60	2.80	3.50	4.40
Insulation	Material	Physical Foaming PE				
	Diameter ( mm )	5.00	7.30	7.80	10.00	12.40
Outer Conductor	Material	Aluminum mould shielding +braided metal wire				
	Diameter ( mm )	5.70	8.00	8.60	10.80	13.20
Outer jacket	Material	PVC or PE				
	Diameter ( mm )	7.50	9.80	10.60	13.00	15.60
Mechanical Characteristics	Min. Bending Radius (mm )	35	45	55	65	75
	Operating temperature°C	-25oC ~ +70oC ( PVC outer jacket ) -55oC ~ +85oC ( PE outer jacket )				
	Crush Resistance Kg/mm <sup>2</sup>	0.54	0.71	0.80	0.95	1.55
	Tension Kg	54.5	72.6	86	125	150
Nominal Capacitance (PF/m)		83	83	83	83	83
Characteristic Impedance		50 ± 2	50 ± 2	50 ± 2	50 ± 2	50 ± 2
Attenuation (dB/100m 20 oC max)	100MHz	6.3	4.3	4.1	3.2	2.7
	400 MHz	13.0	9.0	8.7	6.8	5.7
	900 MHz	20.2	14.2	13.8	11.0	9.1
	1200 MHz	23.7	16.7	16.3	13.1	10.8
	1500 MHz	26.8	19.0	18.6	15.0	12.3
	1900 MHz	30.6	21.8	21.5	17.4	14.2
	2500 MHz	35.8	25.7	25.4	20.5	16.6
VSWR	100-480 MHz	1.20	1.20	1.20	1.20	1.20

	820-1900 MHz	1.25	1.25	1.25	1.25	1.25
	1860-2500 MHz	1.30	1.30	1.30	1.30	1.30

## RF cable

### Coaxial Cable for Connecting Network

- Applications

Coaxial cable for connecting network is a kind Of coaxial cable which connects network units and subscriber interface in HFC network . It is mainly used for transmitting data, TV and computer signals in wide band and multifunctional common network.

- characteristics

- 1 Wide frequency range
- 2 Fine shielding performance due to self-adhesion aluminum foil and multi. layer shielding structure .
- 3 Reasonable structure design , better performance , longer lifetime .

- Structural performances

Item		size			RG 59			RG 6			RG 7			RG 11		
		S	T	Q	S	T	Q	S	T	Q	S	T	Q			
Dimensions (mm)	Inner conductor	0.81			1.02			1.29			1.63					
	outer average diameter of the first shield	3.86			4.78			5.92			7.32					
	shield layers	2	3	4	2	3	4	2	3	4	2	3	4			
	Outer diameter of cable	6.1	6.2	6.73	6.9	7.06	7.54	8.1	8.2	8.64	10.16	10.6	10.34			
performance parameter	characteristic impedance( )	75 ± 2			75 ± 2			75 ± 2			75 ± 2					
	Attenuation constant dB/100m (20 )	5MHz	4.00			2.66			1.87			1.25				
		55MHz	6.76			5.25			4.17			3.38				
		211MHz	12.93			10.10			8.04			6.59				
		270MHz	14.76			11.48			9.15			7.55				
		300MHz	15.49			12.14			9.68			7.97				
		330MHz	16.27			12.76			10.17			8.37				
		400MHz	17.98			14.11			11.25			9.28				
		450MHz	19.13			15.03			12.01			9.91				
		550MHz	21.23			16.70			13.35			11.02				
		750MHz	25.00			19.69			15.78			13.09				
		870MHz	27.03			21.33			17.09			14.21				
	1000MHz	29.10			22.97			18.44			15.32					
	Shielding attenuation dB (20 )	55MHz	63			63			63			63				
		300MHz	78			78			78			78				
1000MHz		80			80			80			80					
Echo loss dB	5-1000MHz			20			20			20						

- Comparison between domestic and overseas types

overseas type Domestic type	RG59-S	RG59-T	RG59-Q	RG6-S	RG6-T	RG6-Q	RG7-S	RG7-T	RG7-Q	RG11-S	RG11-T	RG11-Q
Inner conductor is Copper Wire	HSV-75-59	HTV-75-59	HQV-75-59	HSV-75-6	HTV-75-6	HQV-75-6	HSV-75-7	HTV-75-7	HQV-75-7	HSV-75-7	HTV-75-7	HQV-75-7
Inner conductor is Steel Wire winded by copper	HCSV-75-59	HCTV-75-59	HCQV-75-59	HCSV-75-6	HCTV-75-6	HCQV-75-6	HCSV-75-7	HCTV-75-7	HCQV-75-7	HCSV-75-7	HCTV-75-7	HCQV-75-7

- Package

Package Type	Packed by paper box	Packed by wood disc
RG59	standard 4 × 100m Or 2 × 200m/ paper box , it can also be decided according to customers requirements	standard 305m/disc, it can also be decided according to customer's requirements
RG6	standard 4 × 100m Or 2 × 200m/ paper box , it can also be decided according to customers requirements	standard 305m/disc, it can also be decided according to customer's requirements
RG7	standard 2 × 200m/ paper box , it can also be decided according to customer's requirements	standard 305m/disc, it can also be decided according to customer's requirements
RG11	standard 1 × 250m/ paper box , it can also be decided according to customers requirements	standard 305m/disc, it can also be decided according to customer's requirements

## RF Cable

### Physically Foamed Polyethylene Insulated Coaxial Cable

SJ / T11 138 1 ~ 4 — 1997

- Applications

Applicable in CCTV system , CATV system , wire TV system below 1 GHz as trunk , branch and subscriber lines.

- Type . Name

Type	Name
SYWV-75-5	physically foamed Coaxial cable in cable distribution system with polyethylene insulation and Polyvinyl chloride sheath
SYWV-75-7	physically foamed coaxial cable in cable distribution system with polyethylene insulation and Polyvinyl chloride sheath
SYWV-75-9	physically foamed coaxial cable in cable distribution system with polyethylene insulation and Polyvinyl chloride sheath
SYWY-75-7	physically foamed coaxial cable in cable distribution system with polyethylene insulation and polyethylene sheath
SYWY-75-9	physically foamed coaxial cable in cable distribution system with polyethylene insulation and polyethylene sheath
SYWLY-75-9	physically foamed coaxial cable in cable distribution system with polyethylene insulation, aluminum pipe outer conductor and Polyethylene sheath
SYWLY-75-12	

- The meanings of every code in types

Classification		Insulation		Outer conductor		Sheath		Characteristic impedance		Size		Structural number			
Code	Meaning	Code	Meaning	Code	Meaning	Code	Meaning	Code	Meaning	Code	Meaning	Code	Meaning		
S	RF cable	YW	Physically foamed polyethylene insulation	L	Aluminum pipe outer conductor	V	Polyvinyl	75	Nominal characteristic impedance 75	5	Insulation outer Diameter 4.80mm	a	outer conductor braided by tinned copper wire		
					Y	Polyethylene	7			Insulation outer Diameter 7.25					
For example: coaxial cable with insulation outer diameter 4.8mm, characteristic impedance 75 ,polyvinyl insulation braided by tinned copper wire and polyvinyl chloride sheath is SYWV-75-5a										9	Insulation outer Diameter 9.00	b	outer conductor braided by aluminum alloy wire		
										12	Insulation outer Diameter 11.50 mm	c	outer conductor braided by annealed wire		

● Structural dimensions & main technical performances

item \ type		SYWV-75-5 (a.b.c)	SYWV-75-7 (a.b.c)	SYWLY-75-7	SYWY-75-7 (a.b.c)	SYWV-75-9 (a.b.c)	SYWLY-75-9	SYWY-75-9 (a.b.c)	SYWLY-75-12
Structure dimension	inner conductor diameter (mm)	1.00	1.66		2.15		2.77		
	Dielectric diameter (mm)	4.80	7.25		9.00		11.50		
	Outer diameter of the cable (mm)	7.2±0.3	10.3±0.3		12.3±0.3		15.0±0.4		
performances parameter	dielectric Strength of core 40-60Hz/1min Kv	1.6							
	(20oC 500DC) Insulation resistance Mn-km	5000							
	Test for waterproof 40-60Hz Kv	2.0	3.0		5.0				
	Spark test 40-60Hz Kv	3.0	5.0		8.0				
	Characteristic resistance 200MHz	75±3	75±2.5					75±2	
	Attenuation constant (20 ) dB/100m	50MHz	4.8	3.2		2.4		1.9	
		200MHz	9.7	6.4		5.0		3.9	
		550MHz	16.8	10.7		8.5		6.7	
		800MHz	20.3	13.3		10.4		8.2	
	Return loss dB	VHF	20.0						
UHF		18.0							
Shielding attenuation dB	50MHz	60							
	200MHz	70							
	800MHz	70							
Operating conditions	Environmental temperature	-25 ~ 70		40 ~ 70		-25 ~ 70		-40 ~ 70	
	Relative humidity (40±2 )%	90 ~ 95							
	Operating frequency GHz	Below 1							

Delivered Length	The delivered length should not be less than 100m. The short length delivery of less than 20m is allowed.	The delivered length should not be less than 200m. The short length delivery of no less than 50m is allowed.
	The total length of partial delivery should not be over 10% of the total length. According to the agreement of the two parties, any length delivery is allowed.	