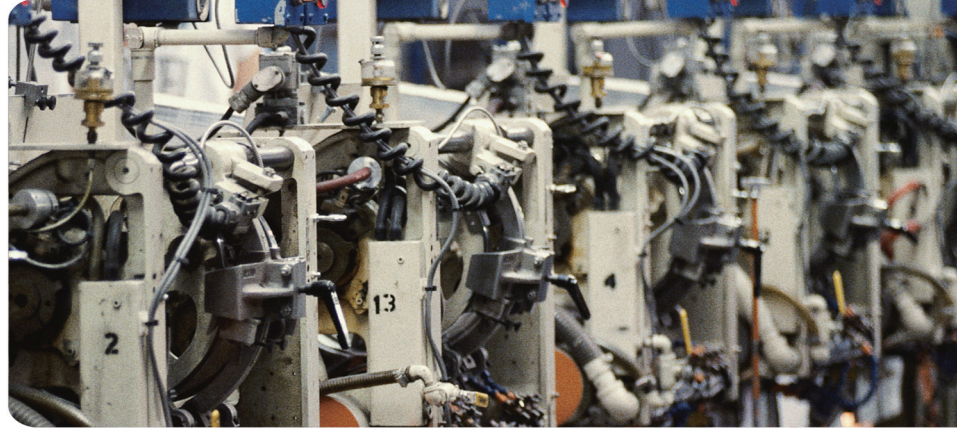
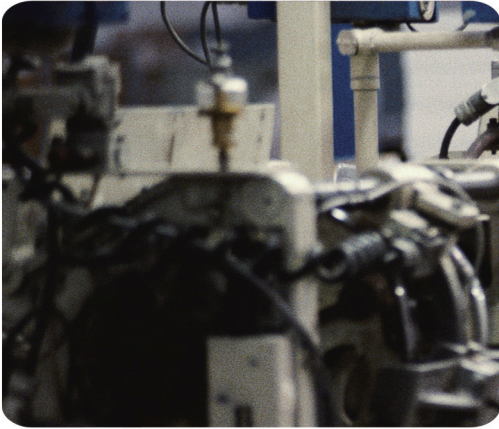


射频电缆

选型样本

RF Cable



电缆分配系统用物理发泡聚乙烯绝缘同轴电缆
Physical Foam PE Insulation Coaxial Cable for Cable Distribution System
实芯聚乙烯绝缘射频电缆
RF Cable with Solid Core and PE Insulation

射频电缆

电缆分配系统用物理发泡聚乙烯绝缘同轴电缆 Coaxial Cable with Physically Foamed PE Insulation for Cable Distribution System

本产品适用于1GHZ以下闭路电视系统、共用天线电视系统作分支线和用户线以及其它电子装置。电缆分配系统用物理发泡聚乙烯绝缘同轴电缆比实芯聚乙烯、化学发泡聚乙烯和纵孔聚乙烯绝缘电视电缆具有更优良的高频性能，它有衰减低、一致性好、不易受潮等突出优点，为此在国际、国内市场已获得广泛使用。

It is used as branch cable and user cable for signal distribution system of closed circuit TV and common antenna TV of 1GHZ or lower, or for other electronic devices. Coaxial cable with physically foamed PE insulation for cable distribution system has good features of high frequency performance, low attenuation, good consistency and humidity resistance etc compared with TV cable with solid core PE, chemically foamed PE and cell PE insulation. Now, it is widely used in domestic and international market.

环境条件: -25℃~+70℃ (PVC护套)
-40℃~+70℃ (PE护套)

Environment temperature: -25℃~+70℃ (PVC sheath)
-40℃~+70℃ (PE sheath)

相对湿度: 当温度为40±2℃, 为90%~95%。

Relative humidity is 90%~95% under the temperature of 40±2℃.

一、常用型号及名称

Common Type and Description

型号Type	名称Name
SYWV-75-5 SYWV-75-7 SYWV-75-9	电缆分配系统用物理发泡聚乙烯绝缘聚氯乙烯护套同轴电缆 Coaxial cable with physically foamed PE insulation, PVC sheath for cable distribution system
SYWY-75-7 SYWY-75-9	电缆分配系统用物理发泡聚乙烯绝缘聚乙烯护套同轴电缆 Coaxial cable with physically foamed PE insulation and sheath for cable distribution system

二、电缆的结构尺寸

Structure Dimension of Cable

型号 Type	内导体mm Inner conductor	绝缘外径mm Insulation OD	外导体mm Outer conductor	护套mm Sheath	单位重量kg/km Unit weight
SYWV-75-5	1.0±0.02	4.8±0.2	≤5.8	≤7.5	46
SYWV-75-7 SYWY-75-7	1.66±0.02	7.25±0.25	≤8.3	≤10.6	85 (PVC) 75 (PE)
SYWV-75-9 SYWY-75-9	2.15±0.03	9.00±0.25	≤10.3	≤12.6	120 (PVC) 110 (PE)

备注: 1、内导体为单根圆铜线或铜包铝线;

2、绝缘为物理发泡聚乙烯;

3、外导体为铝塑复合膜和镀锡圆铜线(或铝合金线)编织双层屏蔽形式;

4、护套为聚氯乙烯或聚乙烯。

Note: 1: Inner conductor consists of single round copper wire OR copper-clad aluminum wire

2: Insulation material is physically foamed PE.

3: Outer conductor consists of aluminum-plastic compound film and tinned round copper wire(aluminum-alloy wire) braid dual shielding.

4: Sheath material is PVC or PE.

射频电缆

三、电气性能

Electric Performance

试验项目 Testing item	试验条件 Testing condition	单位 Unit	技术要求 Technical requirements		
			SYWV-75-5	SYWV-75-7 SYWY-75-7	SYWV-75-9 SYWY-75-9
绝缘电阻 Insulated resistance	500V Dc(20℃)	M Ω .km	≥5000	≥5000	≥5000
护套介电强度 Sheath dielectric strength 浸水试验 Immersion test in water 火花试验 Spark test	40Hz~60Hz	kV	2.0 3.0	3.0 5.0	5.0 8.0
特性阻抗 Characteristic impedance	200MHz	Ω	72.0~78.0	72.5~77.5	72.5~77.5
衰减常数 (20℃) Attenuation coefficient	50MHz 200MHz 550MHz 800MHz	dB/100m	≤4.8 ≤9.7 ≤16.8 ≤20.3	≤3.2 ≤6.4 ≤10.7 ≤13.3	≤2.4 ≤5.0 ≤8.5 ≤10.4
回波损耗 Return-loss	VHF UHF	dB dB	≥20.0 ≥18.0	≥20.0 ≥18.0	≥20.0 ≥18.0
屏蔽衰减 Shielding attenuation	50MHz 200MHz 800MHz	dB dB dB	60 70 70	60 70 70	60 70 70

射频电缆

实芯聚乙烯绝缘射频电缆 RF Cable with Solid Core & PE Insulation

适用于无线电通讯广播设备和有关无线电电子设备中传输射频信号。

It is used to transmit radio frequency signal for radio communication broadcasting equipments and concerned electric devices.

一、生产执行标准 GB/T14864-93

Executive standard: GB/T14864-93

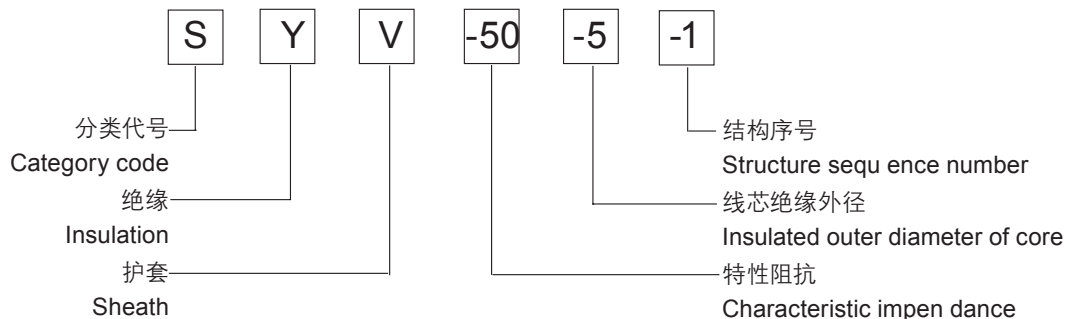
二、型号编制及字母代号含义

Type Compiling and Code Meaning

射频同轴电缆.....S
铜导体.....T (可省略)
聚乙烯实芯.....Y
聚氯乙烯护套.....V

RF coaxial cable.....S
Copper conductorT (omitted)
PE solid core.....Y
PVC sheathV

型号组成表示方法 Type-forming Method



三、使用条件

Working Condition

使用温度: -30℃~70℃。

Working temperature: -30℃~70℃

相对湿度: 当温度为40±2℃时, 达98%, 安装敷设温度不低于-15℃。

Relevant humidity: 98% at 40±2℃. Temperature for installation is no lower than -15℃.

允许最小弯曲半径: 室内使用时不少于5倍电缆外径, 室外使用不小于10倍电缆外径。

Min. bending radius: it will be no less than 5 times that of cable outer diameter for indoor usage, and no less than 10 times for outdoor usage.

四、型号及名称

Type and Description

型号Type	名称Description
SYV	实芯聚乙烯绝缘、聚氯乙烯护套同轴射频电缆 Coaxial RF cable with solid core, PE insulation and PVC sheath

射频电缆

五、结构尺寸

Specification and Size

型号规格 Type	内导体mm Inner conductor	绝缘 外径mm Insulated outer diameter	外导体直径mm Diameter of outer conductor			护套外 径mm Sheath OD	绝缘电阻 M Ω .km Insulated resistance	200MHz下 衰减dB/m Attenuation under 200MHz
	根数/直径* Pieces/ diameter*		内层 Inner layer	外层 Outer layer	单线直径 Diameter of single piece			
SYV-50-2-1	7/0.16	1.50±0.10	软 铜 线 Soft copper wire	/	0.10±0.01	2.8±0.2	≥5000	≤0.45
SYV-50-2-7	7/0.16	1.50±0.10		/	0.10±0.01	2.8±0.2		≤0.45
SYV-50-2-8	7/0.16	1.50±0.10		/	0.10±0.01	2.8±0.2		≤0.45
SYV-50-2-41	1/0.68	2.20±0.10		/	0.14±0.01	4.0±0.2		≤0.31
SYV-50-3-1	7/0.32	2.95±0.13		/	0.14±0.01	5.0±0.2		≤0.24
SYV-50-3-3	1/0.90	2.95±0.13		/	0.14±0.01	5.0±0.2		≤0.22
SYV-50-3-4	1/0.90	2.95±0.13		/	0.14±0.01	5.0±0.2		≤0.22
SYV-50-3-5	1/0.90	2.95±0.13		软铜线 Soft copper wire	0.14±0.01	5.8±0.2		≤0.22
SYV-50-3-41	1/0.90	2.95±0.13		软铜线 Soft copper wire	0.14±0.01	5.8±0.2		≤0.22
SYV-50-5-1	1/1.40	4.80±0.20		/	0.14±0.01	7.2±0.3		≤0.15
SYV-50-5-3	1/1.40	4.80±0.20		/	0.14±0.01	7.2±0.3		≤0.15
SYV-50-5-4	1/1.40	4.80±0.20		软铜线 Soft copper wire	0.14±0.01	7.9±0.3		≤0.15
SYV-50-5-41	1/1.40	4.80±0.20		软铜线 Soft copper wire	0.14±0.01	7.9±0.3		≤0.15
SYV-50-7-1	7/0.75	7.25±0.25		/	0.19±0.01	10.3±0.3		≤0.11
SYV-50-7-2	7/0.75	7.25±0.25	/	0.19±0.01	10.3±0.3	≤0.11		
SYV-50-7-3	7/0.75	7.25±0.25	软铜线 Soft copper wire	0.17±0.01	11.0±0.3	≤0.11		
SYV-50-7-4	7/0.75	7.25±0.15	/	0.19±0.01	10.3±0.3	≤0.62**		
SYV-50-7-6	7/0.75	7.25±0.15	软铜线 Soft copper wire	0.17±0.01	11.0±0.3	≤0.62**		
SYV-50-7-41	7/0.75	7.25±0.25	软铜线 Soft copper wire	0.17±0.01	11.0±0.3	≤0.11		
SYV-50-9-41	7/0.95	9.0±0.30	/	0.19±0.01	12.2±0.4	≤0.095		

注：SYV-50- 的特性阻抗为50±2.5 Ω ，电容不大于115 pF/m。

Note: characteristic impedance of SYV-50- is 50±2.5 Ω . Capacitance is no more than 115 pF/m

射频电缆

型号规格 Type	内导体mm Inner conductor	绝缘 外径mm Insulated OD	外导体直径mm Diameter of outer conductor			护套外 径mm Sheath OD	绝缘电阻 MΩ.km Insulated resistance	200MHz下 衰减dB/m Attenuation under 200MHz
	根数/直径* Pieces/diameter		内层 inner layer	外层 outer layer	单线直径 Diameter of single piece			
SYV-75-3-41	7/0.17	3.00±0.13	软 铜 线 Soft copper wire	/	0.14±0.01	5.0±0.25	≥5000	0.28
SYV-75-4-1	7/0.21	3.70±0.13		/	0.14±0.01	6.0±0.2		0.22
SYV-75-4-2	7/0.21	3.70±0.10		软铜线 Soft copper wire	0.14±0.01	6.7±0.2		0.95**
SYV-75-4-3	1/0.59	3.70±0.13		/	0.14±0.01	6.0±0.2		0.19
SYV-75-4-4	1/0.59	3.70±0.13		/	0.14±0.01	6.0±0.2		0.19
SYV-75-5-4	1/0.75	4.80±0.20		/	0.14±0.01	7.2±0.3		0.15
SYV-75-5-5	1/0.75	4.80±0.20		软铜线 Soft copper wire	0.14±0.01	7.9±0.3		0.15
SYV-75-5-41	1/0.75	4.80±0.20		/	0.14±0.01	7.2±0.3		0.15
SYV-75-5-42	1/0.75	4.80±0.20		软铜线 Soft copper wire	0.14±0.01	7.9±0.3		0.15
SYV-75-7-1	7/0.40	7.25±0.25		/	0.19±0.01	10.3±0.3		0.12
SYV-75-7-2	7/0.40	7.25±0.25		/	0.19±0.01	10.3±0.3		0.12
SYV-75-7-3	7/0.40	7.25±0.15		软铜线 Soft copper wire	0.17±0.01	11.0±0.3		0.60
SYV-75-7-4	1/1.15	7.25±0.15		/	0.19±0.01	10.3±0.3		0.52
SYV-75-7-8	1/1.15	7.25±0.25		/	0.19±0.01	10.3±0.3		0.10
SYV-75-7-41	7/0.40	7.25±0.25		软铜线 Soft copper wire	0.17±0.01	11.0±0.3		0.12

注: SYV-75- 的特性阻抗为75±3Ω, 电容不大于76pF/m。

*表示单线直径为近似值。

**表示频率为3000 MHz下的衰减值。

Note: Characteristic impedance of SYV-75- is 75±3Ω. Capacitance is no more than 76 pF/m.

*: approximate value of diameter of single wire

**: attenuation value under 3000 MHz

六、交货要求

1、 允许成圈长度为100米交货, 成盘长度应不小于100米, 长度误差为±0.5%。

2、 根据双方协议允许任何长度交货。

Delivery Requirement

1: Cable length in coil is 100 meters. Cable length on drum is no less than 100 meters with length error of ± 0.5%.

2: It depends on both agreements.