

# 75Ω Coaxial Cable for general visions

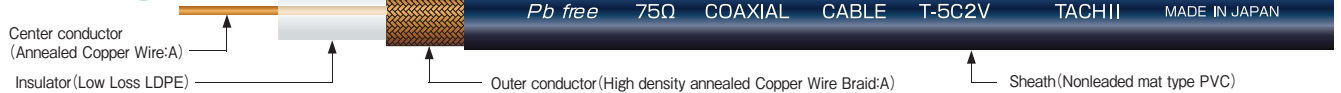
## Applications

Best choice for transmission of general vision signal such as SD-SDI transmission and up to 1GHz. TACHII has employed as the center conductor stranded wire type in TCX-3C2VS, TCX-3.5C2VS, TCX-5C2VS for mobile application, and single wire conductor in TCX-3C2V, TCX-5C2V for anchoring application.

## Features

- As the insulator material, TACHII has employed Low Loss Low Density Polyethylene which has beneficial effect on attenuation property.
- As the center conductor in TCX-2VS series, TACHII has employed stranded wire type. Best to use for video patch purpose etc. and moving parts because of better flexibility comparing with single wire type.
- Braid shield density is very high (more than 93%), therefore the influence between outside noise to vision signal can be controlled next to nothing.
- As the sheath material, TACHII has employed environment-friendly nonleaded quality feeling mat type PVC.

## Configuration

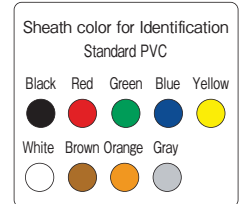


## Nominal Attenuation

※Nominal value means the center figure measured by TACHII.

SD-SDI

Model	Nominal attenuation value (dB/100m)													
	10 MHz	30 MHz	72 MHz	88 MHz	90 MHz	135 MHz	180 MHz	220 MHz	270 MHz	440 MHz	750 MHz	770 MHz	1000 MHz	
TCX-3C2VS	4.5	7.8	12.2	13.5	13.6	16.8	19.5	21.7	24.2	31.4	42.1	42.6	49.6	
TCX-3.5C2VS	4.3	6.7	10.5	11.7	11.8	14.5	16.8	18.7	20.8	26.9	36.0	36.5	—	
TCX-5C2VS	3.2	5.3	8.3	9.1	9.2	11.4	13.2	14.7	16.4	21.3	28.5	28.8	33.4	
TCX-3C2V	4.2	7.1	11.2	12.4	12.6	15.5	18.0	19.9	22.2	28.8	38.2	38.9	44.7	
TCX-5C2V	2.7	4.4	5.9	7.7	7.8	9.7	11.2	12.5	13.9	18.0	24.1	24.5	28.3	



## Construction Properties

Model	Center conductor	Insulator	Outer conductor (Braid)		Finished cable		Electrical properties			
	Structure Wires/mm		O.D. mm	Structure Spindles/Wires/mm	Density %	O.D. mm	Approx. weight kg/100m	Conductor resistance Ω/km	Capacitance pF/m 1kHz	Characteristic impedance Ω 10MHz
TCX-3C2VS	7/0.18A	3.1	16/7/0.12A	93	5.4	4.0	102.7以下	67	75±3	20.9min.
TCX-3.5C2VS	7/0.20A	3.6	24/6/0.12A	95	6.1	5.0	84.9以下			
TCX-5C2VS	7/0.26A	4.8	24/7/0.12A	93	7.4	6.9	52.2以下			
TCX-3C2V	1/0.50A	3.1	24/5/0.14A	97	5.4	4.4	91.4以下			
TCX-5C2V	1/0.80A	4.9	24/7/0.14A	94	7.4	7.4	35.9以下			

# NEW Composite Cable for Audio·Video

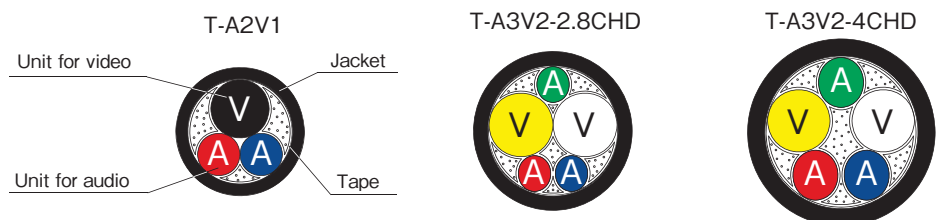
## Applications

In anchoring wire connection among equipments for HDTV & AV, one cable alone can manage without using a number of cable.

## Features

- In coaxial unit, TACHII has employed 2.8CHD, 4CHD, 3G-SDI, HD-SDI transmission become available. In SD-SDI, analog signal transmission, more longer transmission become available than conventional commodity.
- It is possible to combine in diverse way for stereo sound vision uses. T-A2V1 corresponds as standard to UL specification.

## Finished Product Configuration



## Construction Properties

Model	Used unit		Unit					Finished cable		Electrical properties	
			Conductor Structure Wires/mm	Shield AL/PET tape	Shield Structure Spindles/Wires/mm	Shield Density %	Sheath O.D. mm	O.D. mm	Approx. weight kg/100m	Capacitance pF/m 1kHz	Characteristic impedance Ω 10MHz
T-A2V1	A	T-2B2AT	16/0.12A	One side	—	—	3.2	9.7	10.6	61	—
	V	3C2V	1/0.50A	—	24/5/0.14A	93	4.4			67	75±3
T-A3V2-2.8CHD	A	T-2B2AT	16/0.12A	One side	—	—	3.2	12.0	14.9	61	—
	V	2.8CHD	1/0.60A	Both sides	24/6/0.1TA	96	4.0			55	75±3
T-A3V2-4CHD	A	T-2B2AT	16/0.12A	One side	—	—	3.2	14.2	21.0	61	—
	V	4CHD	1/1.05A	Both sides	24/7/0.12TA	93	5.7			53	75±3

# Multiple Coaxial Cable

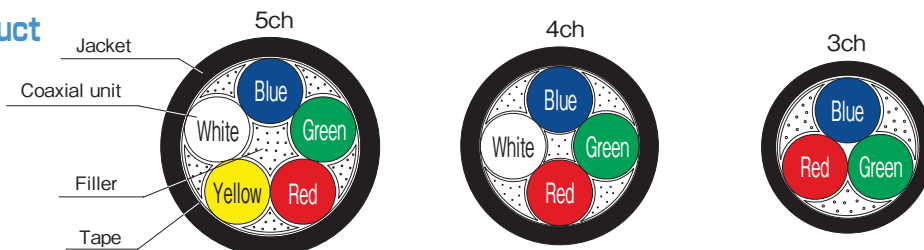
## Applications

This product can transmit by multiple lines for high quality digital signal in HDTV system, and also for various types of high frequency signals like RGB vision line, HV synchronous line, etc.

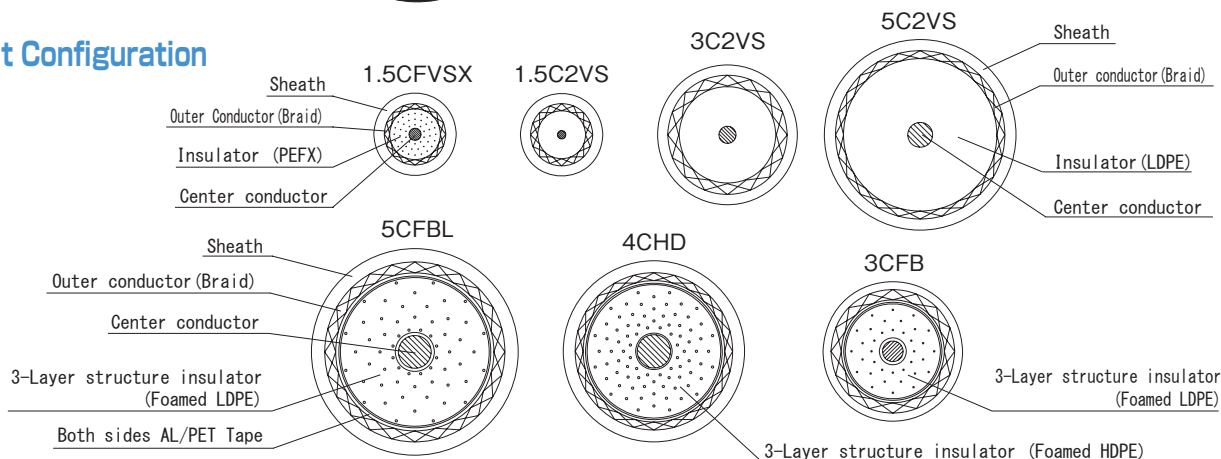
## Features

- 3CFB, 5CFBL, 4CHD can also serve the needs of 3G-SDI transmission by assuring Return Loss over 20.9 dB in 1MHz~3GHz.
- In TCX5-1.5CFVVSX, TACHII has succeeded to greatly minimize the central conductor disconnection fault, improving attenuation property in the frequency up to 200MHz which is used for VGA cable compared to conventional TCX5-1.5C2VS.
- By making insulator cross-linked type, the insulator becomes least soluble when soldering, and customers can easily manage the work.
- TCX5-5C2VS, TCX□-3C2VS, TCX□-1.5C2VS, TCX5-1.5CFVVSX, as standard, correspond to UL specifications.
- TACHII has employed enviroint-friendly nonleaded type PVC for sheath and jacket materials. (ECO type product is also available.)

## Finished Product Configuration



## Unit Configuration



## Nominal Attenuation

※Nominal value means the center figure measured by TACHII.

- SD-SDI
- HD-SDI
- 3G-SDI

At each SDI signal, the respective color indicates frequency in case of looking transmission distance.

Coaxial unit	Nominal Attenuation Value (dB/100m)																			
	10 MHz	30 MHz	72 MHz	88 MHz	90 MHz	135 MHz	180 MHz	220 MHz	270 MHz	440 MHz	742.5 MHz	750 MHz	770 MHz	1000 MHz	1300 MHz	1485 MHz	2000 MHz	2400 MHz	3000 MHz	
1.5CFVVSX	7.9	14.1	22.4	25.0	25.3	31.7	37.4	42.2	47.9	65.0	—	93.3	—	114.7	—	—	—	—	—	—
1.5C2VS	9.1	15.6	24.0	26.6	26.9	33.1	38.2	42.3	46.9	60.4	—	79.8	—	92.7	—	—	—	—	—	—
3C2VS	4.5	7.8	12.2	13.5	13.6	16.8	19.5	21.7	24.2	31.4	—	42.1	42.6	49.6	—	—	—	—	—	—
5C2VS	3.2	5.3	8.3	9.1	9.2	11.4	13.2	14.7	16.4	21.3	—	28.5	28.8	33.4	—	—	—	—	—	—
3CFB	3.6	5.8	8.5	9.2	9.3	11.3	13.0	14.4	16.0	20.7	27.3	—	27.8	—	36.7	39.4	46.2	51.0	57.6	—
4CHD	2.7	3.9	5.5	6.0	6.1	7.3	8.3	9.2	10.2	13.2	17.3	—	17.7	—	23.1	24.8	29.0	32.0	35.9	—
5CFBL	2.4	3.7	5.4	5.9	5.9	7.2	8.2	9.1	10.2	13.2	17.5	—	17.9	—	23.8	25.6	30.2	33.4	37.8	—

## Construction Properties

※1 1.5CFVVSX, 1.5C2VS, 3C2VS, 5C2VS (Intended frequency 1M~1.5GHz)

※1 3CFB, 5CFBL, 4CHD (Intended frequency 1M~3GHz)

Model	CH No.	Center conductor		Insulator		Outer conductor (Braid)		Unit	Finished cable			Electrical properties			
		Structure Wires/mm	O.D. mm	Structure Strands/Wires/mm	Density %	O.D. mm	O.D. mm		Weight approx. kg/100m	Conductor resistance Ω/km	Capacitance pF/m 1kHz	Characteristic impedance Ω 10MHz	Return loss dB ※1		
TCX5-1.5CFVVSX	5	17/0.08A	1.6	16/5/0.08A	93	2.6	9.2	9.2	244max.	56	75±5	15.6min.			
TCX3-1.5C2VS	3	7/0.09A	1.54	16/5/0.1A	95	2.65	7.4	6.4	452max.	67	75±3	20.9min.			
TCX4-1.5C2VS	4						8.4	8.5							
TCX5-1.5C2VS	5						9.2	10.3							
TCX3-3C2VS	3	7/0.18A	3.1	24/5/0.14A	97	4.4	11.5	15.5	102.7max.	67	75±3	20.9min.			
TCX4-3C2VS	4						13.0	20.5							
TCX5-3C2VS	5						14.2	24.6							
TCX5-5C2VS	5	7/0.26A	4.75	24/7/0.12A	93	6.0	19.2	39.8	52.2max.	56	75±3	20.9min.			
TCX3-3CFB	3	1/0.65A	3.1	16/6/0.14TA	93	4.4	11.5	14.0	55.3max.						
TCX4-3CFB	4						13.0	18.1							
TCX5-3CFB	5						14.2	22.1							
TCX3-5CFBL	3	1/1.05A	4.95	24/7/0.14TA	93	6.5	17.1	29.5	20.2max.	53	75±3	20.9min.			
TCX5-5CFBL	5						21.1	45.8							
TCX5-4CHD	5						4.3	24/7/0.12TA					93	5.7	18.2