

Coaxial Cable correspond to HD-SDI for wire anchoring use

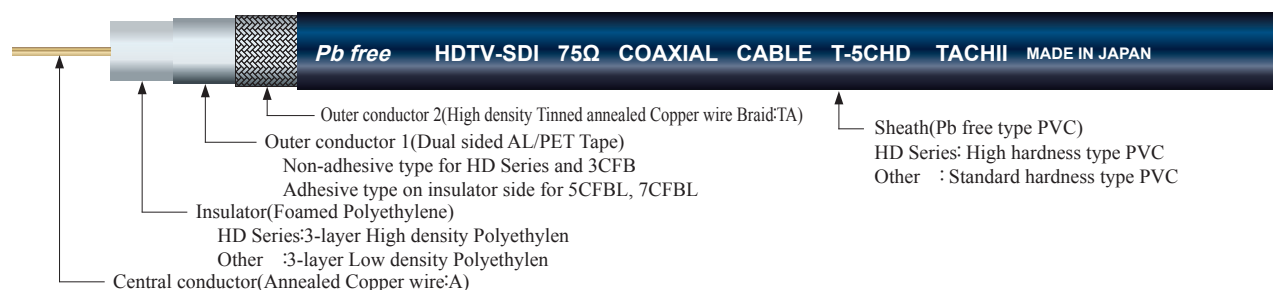
Applications

TACHII have made possible more longer distance transmission of high quality digital signal by HDTV system with TCX-HD Series. TCX-FBL Series are the best for signal transmission among all kinds of video equipments.

Features

- TACHII have materialized lower attenuation, higher reliability additionally than the existing TCX-HFBL by newly employing High Foaming and High Density type Polyethylene with 3-layer structure as TCX-HD Series insulator (Medium Foaming High Density type Polyethylene for TCX-2.8CHD). In addition, TACHII have made sure the best restorability from the cable flection stress more than the equivalent by changing the dual sided AL/PET Tape to non-adhesive type from the existing adhesive type.
- In TCX-FBL Series, TACHII have designed for the better restorability of electrical properties from the cable flection stress by making the dual sided AL/PET Tape to adhesive type (except TCX-3CFB). The attenuation property has been also improved by newly employing 3-layer structure Medium Foaming Low Density type Polyethylene as insulator.
- TACHII have made the products with 8~12 types color to distinguish the signal line easily for each size as the standard lineup, so that our products are adaptable to needs for diversity.
- Pb free PVC has been employed as sheath material for environment-conscious setting (EM type products are also available).

Configuration



Products

Model	Stock available												EM Eco
	Black	Red	Green	Blue	Yellow	White	Brown	Orange	Gray	Purple	Pink	Sky	
TCX-3CFB	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	Yes
TCX-5CFBL	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	①/②	Yes
TCX-7CFBL	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Yes
TCX-2.8CHD	②	②	②	②	②	②	②	②	②	②	②	②	Yes
TCX-4CHD	②	②	②	②	②	②	②	②	②	②	②	②	Yes
TCX-5CHD	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	-	Ⓒ	-	-	Ⓒ	Ⓒ	-	Yes
TCX-6CHD	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	-	Ⓒ	-	-	Ⓒ	Ⓒ	-	Yes
TCX-7CHD	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	-	Ⓒ	-	-	Ⓒ	Ⓒ	-	Yes
TCX-8CHD	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	-	Ⓒ	-	-	Ⓒ	Ⓒ	-	Yes

① 100m spool ② 200m spool Ⓒ Custom-made Other length spool available on request

Construction·Properties

Model	Central conductor	Insulator	Outer conductor 2(Braid)		Finished product		Electrical properties			
	Structure wire/mm		O.D. mm	Structure strand/wire/mm	Density %	O.D. mm	Approx. Weight kg/100 m	Conductor Resistance Ω/km	Capacitance pF/m	Characteristic Impedance Ω
TCX-3CFB	1/0.65A	3.1	16/6/0.14TA	93 min.	5.4	4.0	55.3 max.	56	75	15.6 min.
TCX-5CFBL	1/1.05A	4.9	24/7/0.14TA	93 min.	7.7	7.3	21.1 max.			
TCX-7CFBL	1/1.50A	7.3	24/8/0.18TA	95 min.	10.2	13.7	10.3 max.			
NEW TCX-2.8CHD	1/0.60A	2.7	24/6/0.10TA	96 min.	4.4	2.6	63.1 max.	53	20.9 min.	
NEW TCX-4CHD	1/1.05A	4.3	24/7/0.12TA	93 min.	6.5	5.0	21.1 max.			
NEW TCX-5CHD	1/1.20A	4.9	24/7/0.14TA	93 min.	7.7	7.1	15.6 max.			
NEW TCX-6CHD	1/1.50A	6.1	24/8/0.14TA	92 min.	8.9	9.0	10.3 max.			
NEW TCX-7CHD	1/1.80A	7.3	24/8/0.16TA	92 min.	10.2	11.9	7.1 max.			
NEW TCX-8CHD	1/2.00A	8.2	24/7/0.14TA	89 min.	11.1	13.2	5.6 max.			

※ 1M~2GHz for TCX-3CFB, 5CFBL, 7CFBL and 1M~3GHz for others (Measured at 50m length)

Nominal Attenuation

※Nominal value means the central value measured by TACHII.

Model	Nominal Attenuation (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	770 MHz	1300 MHz	1485 MHz	2000 MHz	2400 MHz	3000 MHz
TCX-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
TCX-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
TCX-7CFBL	1.9	2.6	3.8	4.1	4.2	5.1	5.8	6.4	7.2	9.4	12.6	12.8	17.2	18.5	21.9	24.3	27.7
TCX-2.8CHD	4.3	6.4	9.2	10.1	10.2	12.2	14.0	15.5	17.3	22.3	29.2	29.7	38.8	41.6	48.5	53.5	60.3
TCX-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
TCX-5CHD	2.4	3.3	4.7	5.2	5.2	6.2	7.1	7.9	8.8	11.3	14.9	15.1	19.9	21.3	24.9	27.4	30.8
TCX-6CHD	2.0	2.7	3.9	4.3	4.3	5.2	5.9	6.5	7.3	9.4	12.4	12.6	16.7	17.9	20.9	23.0	26.0
TCX-7CHD	1.7	2.3	3.3	3.6	3.6	4.3	4.9	5.4	6.1	7.9	10.4	10.6	14.0	15.1	17.6	19.4	21.9
TCX-8CHD	1.6	2.1	3.0	3.2	3.3	3.9	4.5	5.0	5.5	7.2	9.4	9.7	12.8	13.7	16.0	17.7	19.4

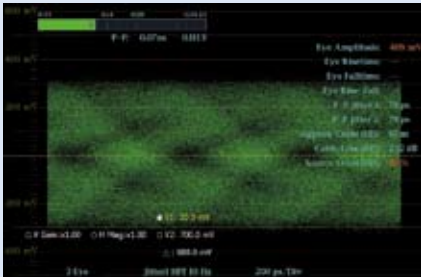
EYE-pattern on transmission for 50m

The EYE-pattern waves are as per the followings for your discussions after transmission of the actual HD-SDI signal by 8-types of coaxial cable (each 50 m). Please understand the transmission capability of the respective cable and utilize for your decision making of selection(as the data for your reference).

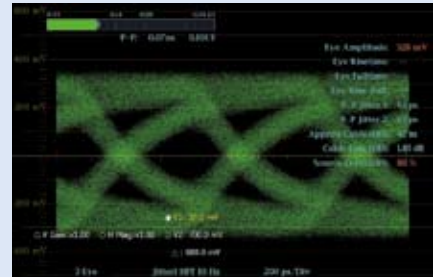


HD-SDI signal format
75% color bar
1080i 59.94Hz

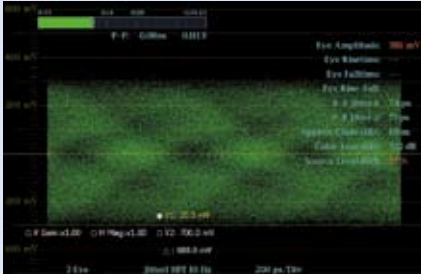
TCX-3CFB



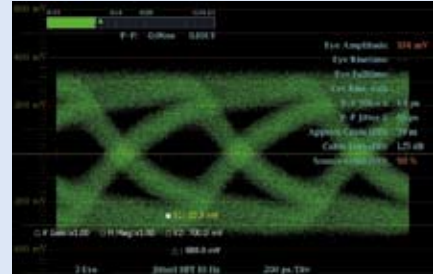
TCX-5CFBL



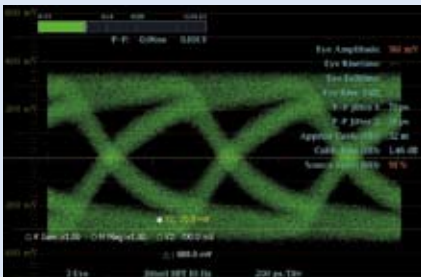
TCX-2.8CHD



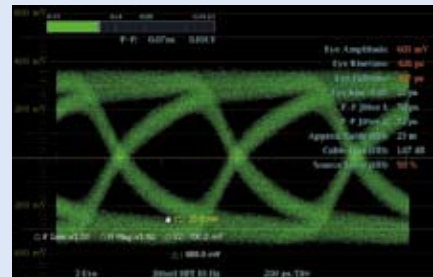
TCX-4CHD



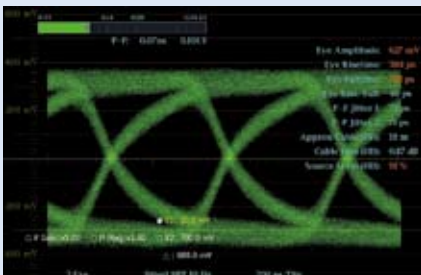
TCX-5CHD



TCX-6CHD



TCX-7CHD



TCX-8CHD

