Coaxial Cable correspond to 3G/HD-SDI for anchoring use

Applications

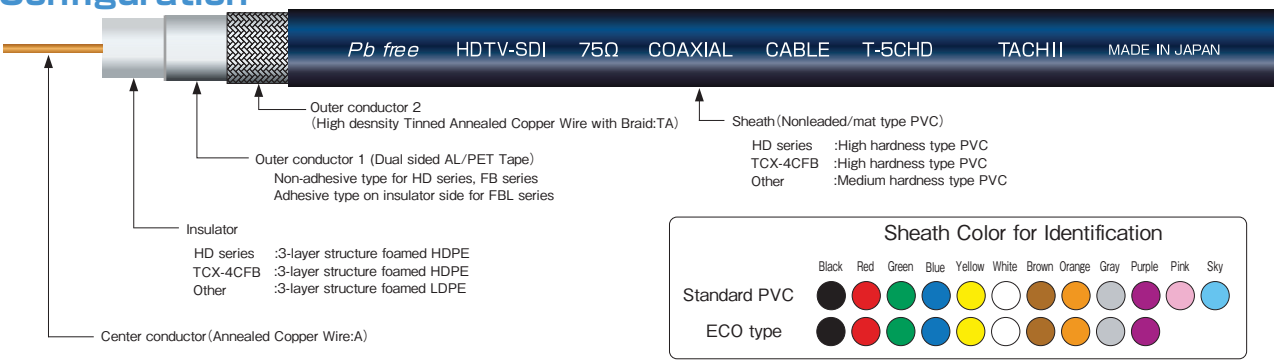
TACHII has materialized with TCX-HD series more possibly longer distance transmission of high quality digital signal for 3G-SDI/HD-SDI in HDTV system. TCX-FBL/TCX-FB series are the best for signal transmission among all kinds of video equipments.

Check!! Technical Support on Page1,2

Features

- TACHII has newly added TCX-3CHD in our lineup of TCX-HD series, which can materialize the better attenuation property than general 4CFB though size wise equal to 3CFB. TACHII has also materialized significant low attenuation, low reflection property than ever before, by employing High Foaming, High Density Polyethylene with 3-layer structure for insulator on a unified basis through TCX-HD series. (Insulator for TCX-2.8CHD is made with Medium Foaming, High Density Polyethylene with 3-layer structure.)
- TACHII has designed, in TCX-FBL series, for the better electrical properties restorability from the cable bending stress by making the dual sided AL/PET Tape to adhesive type. TACHII has also materialized, in TCX-4CFB newly included in our lineup likewise TCX-HD series, significant low attenuation and long term reliability comparing with general 4CFB, by employing High Hardness PVC and Foaming, High Density Polyethylen with 3-layer structure. (The other FBL series have employed Medium Foaming, Low Density Polyethylene and Medium Hardness PVC.)
- TACHII has made our products with 8～12 types color to easily ditinguish the signal line for each size as the standard lineup, so that our products are adaptable to needs for greater diversity.
- Eco-friendly nonleaded mat type PVC has been employed as sheath material. (ECO type is also available.)
- TACHII has made TCX-HD series with high flame resistance specification and fitted in well with UL Rules VW-1 flame test. TACHII can produce upon request TCX-2.8CHD FR type (Flame Retardance, Self-extinguishing type) which stands against the 60° inclining experiment possible to use also on helicopter etc. for relay broadcacasting, based on Airworthiness Review Guideline Appendix F.

Configuration



Sheath Color for Identification

	Black	Red	Green	Blue	Yellow	White	Brown	Orange	Gray	Purple	Pink	Sky
Standard PVC	●	●	●	●	●	○	●	●	●	●	●	●
ECO type	●	●	●	●	●	○	●	●	●	●		

Nominal Attenuation

※Nominal value means the center figure measured by TACHII.

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	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
NEW TCX-4CFB	3.3	4.7	6.8	7.4	7.5	9.0	10.3	11.4	12.7	16.4	21.7	22.0	28.9	31.0	36.3	40.1	45.2
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	6.5	7.2	9.4	12.6	12.7	17.2	18.6	21.9	24.4	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
NEW TCX-3CHD	3.4	5.0	7.2	7.9	7.9	9.5	10.9	12.1	13.4	17.3	22.6	23.1	30.1	32.3	37.5	41.3	46.5
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

SD-SDI
HD-SDI
3G-SDI

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

Construction・Properties

Model	Center conductor	Insulator	Outer conductor 1	Outer conductor 2 (Braid)		Finished cable		Electrical properties			
	Structure Wires/mm	O.D. mm	AL/PET tape Adhesion	Structure Spindles/Wires/mm	Density %	O.D. mm	Approx. weight kg/100m	Conductor resistance Ω／km	Capacitance pF／m 1kHz	Characteristic impedance Ω 10MHz	Return loss dB 1MHz~3GHz
TCX-3CFB	1/0.65A	3.1	No adhesive	16/6/0.14TA	93	5.4	3.8	55.3 max.	56	75±3	20.9 min.
NEW TCX-4CFB	1/0.813A	3.68	No adhesive	16/8/0.127TA	93	5.94	4.6	33.9 max.	55		
TCX-5CFBL	1/1.05A	4.95	Adhesive	24/7/0.14TA	93	7.7	7.1	20.2 max.	56		
TCX-7CFBL	1/1.50A	7.3	Adhesive	24/8/0.18TA	95	10.2	13.7	10.3 max.			
TCX-2.8CHD	1/0.60A	2.7	No adhesive	24/6/0.10TA	96	4.4	2.6	63.1 max.	55		
NEW TCX-3CHD	1/0.80A	3.3	No adhesive	24/5/0.12TA	91	5.5	3.8	35.7 max.	53		
TCX-4CHD	1/1.05A	4.3	No adhesive	24/7/0.12TA	93	6.5	5.1	20.2 max.			
TCX-5CHD	1/1.20A	4.95	No adhesive	24/7/0.14TA	93	7.7	7.1	15.6 max.			
TCX-6CHD	1/1.50A	6.1	No adhesive	24/8/0.14TA	92	8.9	9.0	10.3 max.			
TCX-7CHD	1/1.80A	7.3	No adhesive	24/8/0.16TA	92	10.2	11.9	7.1 max.			
TCX-8CHD	1/2.00A	8.2	No adhesive	24/8/0.16TA	89	11.1	13.2	5.6 max.			