

Coaxial Cable for 3G/HD-SDI

Application

- For 3G-SDI/HD-SDI
- Best suitable for long-distance transmission at fixed installation.

Features

- TCX-HD series can transmit longer by 15% of transmission distance than the same sizes of TCX-FB series.
- TCX-HD series comply with VW-1 test of UL standard.
- We can produce cable harness with BNC connectors. Ask our sales staff for details.
- Eco type is also available.

Configuration



Construction/Properties

Model	Center conductor Structure Wires/mm	Insulation OD mm	Outer conductor 1 AL/PET tape Adhesion	Outer conductor 2 (Braid)		Finished cable		Electrical specification				
				Structure Spindles/Wires/mm	Density %	OD mm	Weight kg / 100 m	Conductor resistance Ω / k m	Capacitance p F / m		Characteristic impedance Ω	Return loss dB
									1kHz	10MHz		
TCX-3CFB	1/0.65A	3.1	No adhesive	16/6/0.14TA	93	5.4	3.8	55.3max.	56	75 ± 3	20.9min.	
TCX-4CFB	1/0.813A	3.68	No adhesive	16/8/0.127TA	93	5.94	4.6	33.9max.	55			
TCX-5CFBL	1/1.05A	4.95	Adhesive	24/7/0.14TA	93	7.7	7.1	20.2max.	56			
TCX-7CFBL	1/1.50A	7.3	Adhesive	24/8/0.18TA	95	10.2	13.3	10.3max.	55			
TCX-2.8CHD	1/0.60A	2.7	No adhesive	24/6/0.10TA	96	4.4	2.6	63.1max.	53			
TCX-3CHD	1/0.80A	3.3	No adhesive	24/5/0.12TA	91	5.5	3.8	35.7max.	53			
TCX-4CHD	1/1.05A	4.3	No adhesive	24/7/0.12TA	93	6.5	5.1	20.2max.	53			
TCX-5CHD	1/1.20A	4.95	No adhesive	24/7/0.14TA	93	7.7	7.1	15.6max.	53			
TCX-6CHD	1/1.50A	6.1	No adhesive	24/8/0.14TA	92	8.9	9.0	10.3max.	53			
TCX-7CHD	1/1.80A	7.3	No adhesive	24/8/0.16TA	92	10.2	11.9	7.1max.	53			
TCX-8CHD	1/2.00A	8.2	No adhesive	24/8/0.16TA	89	11.1	13.2	5.6max.	53			

Nominal Attenuation

Model	Nominal attenuation value (dB / 100 m)																SD-SDI	HD-SDI	3G-SDI
	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			
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	Showing the frequency of transmission distance for each SDI signal in each color.	
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		
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		

* Standard value is our measurement representative value.