



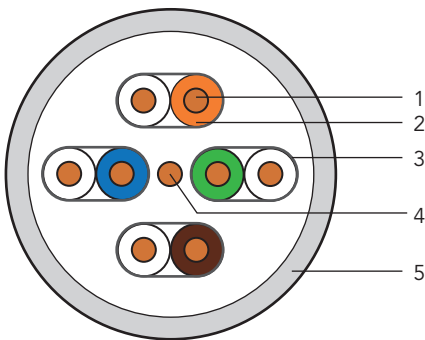
Features

- Flame tested to EN50399 B2ca / Cca / Dca / Eca, UL444 CM, IEC 60332-1
- Transmission tested to 500MHz ,according to ISO 11801 class EA, ANSI/TIA-568.2-D and IEC 61156-5 Cat.6A standard
- Improved shielding efficiency and increased heat dissipation
- POE++ tested to IEEE 802.3bt 100W, Bundle size 37 pcs
- HDBaseT spec 3.0 Premium Certified

Applications

- 10/100/1000/10GBASE-T
- Home Theater/Commercial Display System
- Education/Healthcare System

Construction



Construction features












1. Conductor	Annealed Bare Copper
2. Insulation	Foamed PE
3. Shielding	Aluminum Mylar Tape
4. Drain Wire	Tinned Copper
5. Outer Jacket	PVC / FRPVC / LSZH / FRLSZH

Colour

CTi Cable Code	Standard	Conductor	AWG	OD (mm)	Outer Jacket	Flame Retardant	Packaging
GBK2001	ISO	Solid	23	6.6 +/- 0.5	FRPVC	UL444 CM	Drum(500m)
GBK2005	ISO	Solid	23	6.4 +/- 0.5	PVC	IEC 60332-1	Drum(500m)
GBK2044	TIA	Solid	23	7.2 +/- 0.5	PVC	IEC 60332-1	Drum(500m)
GBK2009	ISO	Solid	23	6.4 +/- 0.5	LSZH	IEC 60332-1 / EN50399 Eca	Drum(500m)
GBK2045	TIA	Solid	23	7.2 +/- 0.5	LSZH	IEC 60332-1 / EN50399 Eca	Drum(500m)
GBK2010	ISO	Solid	23	6.4 +/- 0.5	LSZH	EN50399 Dca, s2, d2, a1	Drum(500m)
GBK2011	ISO	Solid	23	6.7 +/- 0.5	FRLSZH	EN50399 Cca, s1, d1, a1	Drum(500m)
GBK2012	ISO	Solid	23	6.7 +/- 0.5	FRLSZH	EN50399 B2ca, s1, d1, a1	Drum(500m)
GBK2050	TIA HDBT 3.0	Solid	23	7.3 +/- 0.5	PVC	IEC 60332-1	Drum(500m)
GBK2049	TIA HDBT 3.0	Solid	23	7.2 +/- 0.5	LSZH	IEC 60332-1	Drum(500m)



Technical data












			
OPERATING VOLTAGE 60V acc. to EN 50288	TEMPERATURE (operative) STATIC 0 °C ~ 50 °C DYNAMIC -20 °C ~ 60 °C	TEST VOLTAGE DC 1kV / 1min.	INSULATION RESISTANCE min. 5000 MΩ/km at 500V/20°C
			
DC RESISTANCE max. 9.38 Ω / 100m at 20°C	MUTUAL CAPACITANCE nom. 5.6 nf / 100 m at 1 kHz	CHARACTERISTIC IMPEDANCE 100 Ω	VELOCITY OF PROPAGATION nom. 78%
			
CAPACITANCE UNBALANCE max. 160pf / 100m at 1 kHz	RESISTANCE UNBALANCE max. 2% at 20°C	BENDING RADIUS ≥ 4xOD without load ≥ 8xOD with load	

Transmission Performance according to ANSI/TIA 568.2-D Cat.6A(at 20°C)

Frequency (MHz)	Attenuation (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSELFEXT (dB)	Return Loss (dB)	Propagation Delay (ns)	Delay Skew (ns)
Max.	Min.	Min.	Min.	Min.	Min.	Min.	Max.	Max.
1	2.1	74.3	72.3	67.8	64.8	20.0	570.0	
4	3.8	65.3	63.3	55.8	52.8	23.0	552.0	
62.5	15.0	47.4	45.4	31.9	28.9	21.5	538.6	45
100	19.1	44.3	42.3	27.8	24.8	20.1	537.6	
250	31.1	38.3	36.3	19.8	16.8	17.3	536.3	
500	45.3	33.8	31.8	13.8	10.8	15.2	535.6	

Construction Products Regulation (CPR)

Cable Type	Euro-Class	Criteria	Continuous Auditing
Low fire Hazard cables	B2ca Cca	Very limited fire/flame propagation Limited fire/flame propagation	Third-party auditing
	Dca Eca	Acceptable fire/flame propagation Acceptable reaction fire/flame propagation	Self auditing

Smoke Production	Flaming Droplets	Acidity
 s1a 1 st : ≥ 80% light transmittance	 d0 1 st : no flaming droplets after 1200s	 a1 1 st : < 2.5 μS/mm and pH value >4.3
 s1b 2 nd : ≥ 80% light transmittance	 d1 2 nd : no flaming droplets/particles for longer than 10s within 1200s	 a2 2 nd : < 10 μS/mm and pH value >4.3
 s1 3 rd : TSP ≤ 50 m ²	 d2 3 rd : not meeting d1 or no performance	 a3 3 rd : not meeting d1 or no performance
 s2 4 th : TSP ≤ 400 m ²		
 s3 5 th : not meeting s2 or no performance		

HDBaseT spec 3.0 Certification

Recognition of Product Certification

The HDBaseT Alliance acknowledges completion of the requirements under HDBaseT Alliance Certification Program 3.0 for the product below to be recognized as a Premium HDBaseT Recommended Cable.

Ching Tai Electric Wire & Cable Co. Ltd.
Cat. 6A U/FTP HDBT Premium Cable

Certification Granted as of March 1, 2023



 Tzahi Madgar HDBaseT Alliance President



UL Lab Test Report

Test Summary and Data of Cable Performance Test

Product Model: Cat.6A U/FTP HDBT Premium Cable
 Cable Type: Cat. 6A
 Cable Size: 23 AWG
 Length: 100 m
 HDBaseT Mode: 1000



Test Summary and Data (Cont'd)

Test Result (Testing plug: Kordz)

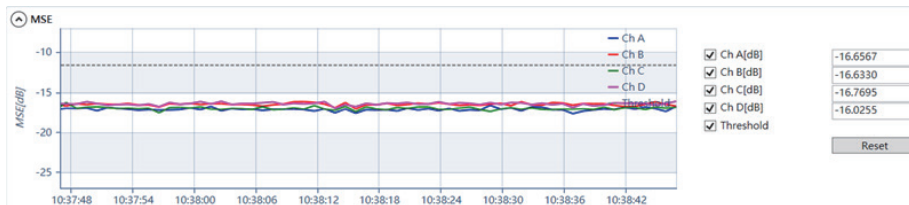
Performance	Pass Criteria	Test Result	Pass/Fail
Main Retransmission Rate	<1/1,000	1/19015	Pass
Min MSE [Main Channel]	<-13dB	-14.645 dB	Pass
Min MSE [AUX channel]	<-15.5 dB	-15.772 dB	Pass
Main BER	<10E-9	0	Pass
AUX BER	<10E-9	0	Pass

Test Result (Testing plug: Plug Master)

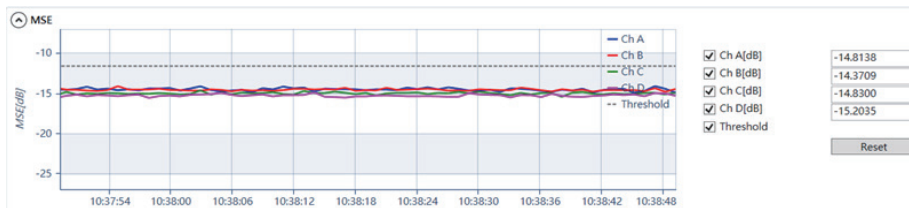
Performance	Pass Criteria	Test Result	Pass/Fail
Main Retransmission Rate	<1/1,000	1/37525.5	Pass
Min MSE [Main Channel]	<-13dB	-14.213 dB	Pass
Min MSE [AUX channel]	<-15.5 dB	-15.916 dB	Pass
Main BER	<10E-9	0	Pass
AUX BER	<10E-9	0	Pass

HDBaseT spec 3.0 Protocol Test

Min MSE(AUX Channel)



Min MSE(Main Channel)



Main Retransmission Rate



*This test result is with Plug Master RJ45 Plug P/N: P8-069-10-23E.