



Features

- Uncompressed 4K@60 4:4:4 8bit HDR and I²S-4 audio input for up to 100m
- Transmission tested to 500MHz for 10GBaseT Ethernet
- High-speed USB 2.0
- Power up to 100W
- Control Signals
- Flame tested to EN50399 Dca,UL444 CM
- Cable diameter 7.2mm smaller OD by using AWG23 conductor
- HDBaseT spec 3.0 Premium Certified
- Compatible with AV over IP devices
- HDBaseT-USB3 technology compliant

Applications

Applications

Home Theater/Commercial Display System

Concert/Education/Healthcare System

Specification

Specification

Application Standards	HDBaseT Compliance Test Specification Version 3.0 ANSI/TIA-568.2-D:2018
Video Format	4K60,4:4:4,8bit,HDR
Control Signals	IR/RS232/CEC
Supported Data Rate	10 Gbps (Gigabit ethernet)
Supported Bandwidth	1 to 500 MHz
Wiring method	T568-B

Construction

Conductors	AWG23 Annealed Bare Copper
Conductor Insulation	Foam PE,1.46+/-0.1mm
Shielding	Individual pairs AL-Mylar shielded 100% Coverage
Cable Jacket Material	PVC(UL444 CM) / LSZH(EN50399 Dca)
Contact Material	Phosphor Bronze, 50μ" Gold-plated

Mechanical

Cable Diameter	nom. 7.2mm-7.3mm
Cable Bend Radius	≥4xOD during operation
UL Temp rating	60°C

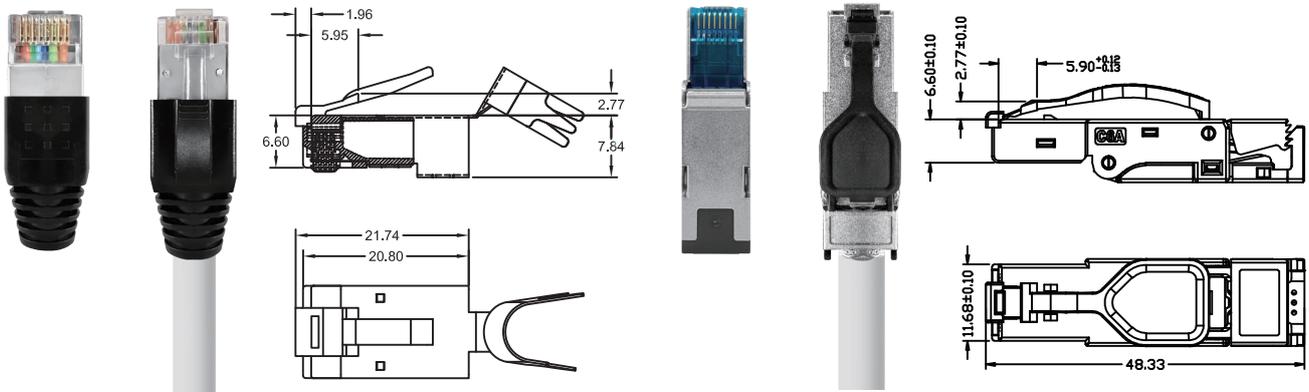
Electrical Characteristics

Conductor Resistance	max.14Ω/100M@20°C
Insulation Resistance	min. 5000M/Km@20°C
Nominal velocity of propagation	nom. 78%

HDBaseT spec 3.0 Premium Cable

Connector Structure

(mm)

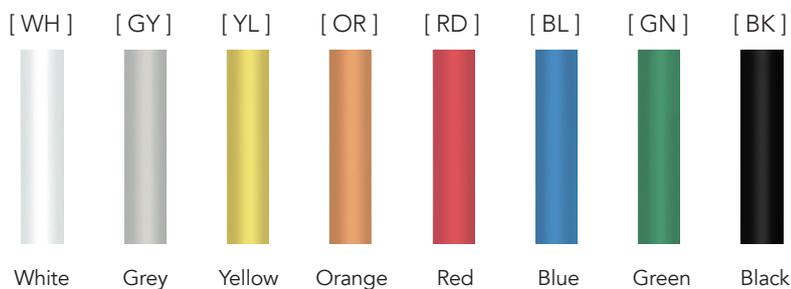


LXZ1001 (LSZH)
 VDA001 (LSZH)
 LXZ1002 (PVC)
 VDA003 (PVC)

LXZ9001 (LSZH)
 VDA002 (LSZH)
 LXZ9002 (PVC)
 VDA004 (PVC)

CTi Cable Code	AWG	OD (mm)	OD (in)	Outer Jacket	Length	Product Description
LXZ1001		7.2 +/- 0.5		LSZH		RJ45 Connector with boot
LXZ9001		7.2 +/- 0.5		LSZH		Field Termination Plug
LXZ1002		7.3 +/- 0.5		PVC		RJ45 Connector with boot
LXZ9002	23	7.3 +/- 0.5	1.46±/-0.1	PVC	Max.100m	Field Termination Plug
VDA001		7.2 +/- 0.5		LSZH		RJ45 Connector with boot
VDA002		7.2 +/- 0.5		LSZH		Field Termination Plug
VDA003		7.3 +/- 0.5		PVC		RJ45 Connector with boot
VDA004		7.3 +/- 0.5		PVC		Field Termination Plug

Available colours



HDBaseT spec 3.0 Premium Cable

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.

CPR Dca Certification



No. 2024-366

Attestation of Conformity

**Cables for use in construction works
Reaction to fire class Dca**

Company
Ching Tai Electric Wire & Cable Co., Ltd.
No.5 Huacheng Rd.,
Xinzhuan Dist.,
New Taipei City 24252
Taiwan (R.O.C.)

Product description
Screened communication cable (U/FTP) with solid conductors,
4 twisted pairs, LSZH

Product identification
U/FTP CABLE CAT.6A
Part no. 2R3354

Reaction to fire standards

- EN 50575:2014 including amendment A1:2016
- EN 60332-1-2:2004 including amendments A1:2015 and A11:2016
- EN 50399:2022
- EN 60754-2:2014 including amendment A1:2020
- EN 13501-6:2018 including amendment A1:2022

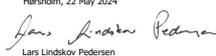
Reaction to fire classification
Class Dca-s2,d2,a1

Technical report
12332539-09, DANAK-19/24052

EC Cabling product ID
7632

This product has undergone a one-time test performed by FORCE Technology and complies with the requirements for the stated reaction to fire class. The classification has been carried out in accordance with EN 13501-6 for use in relation to the Construction Products Regulation (CPR) under AVCP system 3.

Harsholm, 22 May 2024


 Lars Lindskov Pedersen
Test Manager


 Dennis Andersen
Head of Department

