

### About Kordz



#### About us

Kordz is a long-standing innovator and manufacturer of HDMI and other audio-visual cables. Kordz' extensive experience in design, engineering and manufacturing is the foundation to building products with our long-established principles.

These principles of design and engineering are to create products that are robust, offer high quality sound and picture, high-bandwidth, tight bend radius, shallow mounting depth and reliability. Kordz utilises research and development facilities in both Australia and Taiwan, plus the dedication and experience of its people, to engineer and build robust and quality connectivity solutions.

Founded in 2003 when HDMI cables were emerging to be the key connectivity medium for audio visual products, Kordz has evolved into a well-respected, multi award-winning brand.

Kordz is committed to a high standard of practical and graceful design, partnered with superior manufacturing, delivering quality products around the world.

Kordz - Connectivity. Assured



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### Timeline

#### 2003

- Kordz founded in Mornington, Australia
- Introduces Vector & Quantum premium custom long length interconnect components
- First HDMI Compliance Test Specification (CTS) released

#### 2005

· Becomes an official HDMI Adopter company

#### 2008

- Establishes first export partnership with Digital World in New Zealand
- Joins CEDIA
- · Smarthouse Winner for Best Cables Range Master Series

#### 2009

- Invited by HDMI Licensing to exhibit at CES as a technology partner 2010
- Smarthouse Winner for Best HDMI Cables EVX Series
- Established Kordz International in Hong Kong

#### 2011

- CEDIA Finalist Best New Product HDBaseT Extender
- Smarthouse Winner for Best HDMI Cables EVX Series

#### 2012

· Wins CEDIA's product innovation of the year award

#### 2013

- Connected Home Most Popular Award HDMI Cabling
- CEDIA Award Best New Product NEO S3

### 2014

· Connected Home Most Popular Award - HDMI Cabling

#### 2015

- · Connected Home Most Popular Award HDMI Cabling
- · Kordz Exhibits at ISE and enters the European market
- Launched B.2 HDBaseT certified extender slimmest HDBaseT commercial grade (24/7 operation) extender in the world at 16mm hiah
- · Becomes first HDMI cable to be certified by THX
- · Established Kordz Europe Ltd in UK

#### 2016

- 1st European distributors appointed
- Future Ready Solutions appointed US Master Distributor

#### 2017

- Kordz Partners with DPL Labs
- ONE Series HDMI cable launched
- Hvbrid Fibre (AOC) HDMI cable launched
- · ONE Series bulk speaker cable announced

#### 2018

- Now exporting to over 29 different countries around the world
- ONE Series bulk CAT6/6A cable released
- · Connected Home Most Popular Award HDMI Cabling
- Joins AVIXA















### **ONE Series** - HDMI Cable



5m || 10m 2m 3m

#### BUILK PACKAGED HDMLCARLE

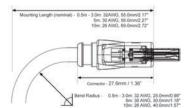
The Kordz ONE Series HDMI Cables are everything you'd come to expect from Kordz, but now available in a bulk packaged form. ONE Series HDMI is flexible, compact and certified for your HDMI plug & play requirements. Each cable is individually tested as part of our strict production process, giving us the confidence to offer you our Lifetime Guarantee.

- Engineered and constructed to ensure installation success and ease
- High Speed with Ethernet in lengths to 3m (9'10") for 2160p (4K) support
- Standard with Ethernet with operational support to 1080p/60 up to 10m (32'9'')
- Induction soldered pin transitions for benchmark inter-terminal uniformity
- PVC boot shell assembly with folded nickel plated HDMI connector
- 100% of units tested on the production line for electrically continuity on all pins, with 1080p/60 application test
- Lifetime warranty





























### **PRO** - HDMI Cable





#### GENERAL APPLICATION HDMLCARLE

Kordz PRO Series is a general application HDMI cable engineered to make installations easier. It employs materials and construction methodologies which deliver a balance of economy and dependable performance without compromising the most critical elements common to all Kordz HDMI cables; the retention of digital signal integrity.

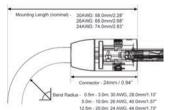
- Engineered and constructed to ensure installation success and longevity
- High Speed with Ethernet in lengths to 5m (16'4") for 2160p (4K) support
- Standard with Ethernet with operational support to 1080p/60 up to 20m (65ft)
- · Induction soldered pin transitions for benchmark inter-terminal uniformity
- ABS + PVC boot shell assembly with folded gold plated HDMI connector
- 100% of units tested on the production line for electrical continuity on all pins, with full Bit Error Rate (BER) application test
- · UL CMG fire rated in all lengths
- Lifetime warranty













### PRS<sup>3</sup> - Passive - HDMI Cable





#### 4K UHD 18Gbps PASSIVE HDMI CABLE

Kordz PRS³ features a narrow profile full metal die-cast shell assembly behind a unique grip tab HDMI connector for 3kg receptacle retention capacity. Engineered for high performance applications and to mitigate connector dropout potential - not suitable for repeated plug/unplug events.

- DPL Certified 4K 18G-DC
- High Speed with Ethernet on all lengths
- Passive in lengths 0.5m 5m / 1.64' 16.4'
- 18mm wide connector engineered to fit through 1"/25mm conduit
- · Induction soldered pin transitions for benchmark inter-terminal uniformity
- Unique grip tab connectors with 3kg retention for permanent installations
- 100% of units tested on the production line for electrical continuity on all pins, with full Bit Error Rate (BER) application test
- UL CMG fire rated in all lengths
- Lifetime warranty















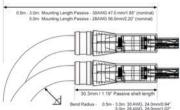














## PRS<sup>3</sup> - Active Copper - HDMI Cable





#### 4K UHD 18Gbps SPECTRA7 ACTIVE HDMI CABLE

Kordz PRS<sup>3</sup> features a narrow profile full metal die-cast shell assembly behind a unique grip tab HDMI connector for 3kg receptacle retention capacity. Engineered to mitigate connector dropout potential - not suitable for repeated plug/unplug events.

- DPL Certified 4K 18G-DC
- High Speed with Ethernet, all lengths
- Spectra 7 Active 7.5m 12.5m lengths, optimised with VerifEYE™
- 18mm wide connector engineered to fit through 1"/25mm conduit
- · Induction soldered pin transitions for benchmark inter-terminal uniformity
- Unique grip tab connectors for permanent installations
- 100% of units tested on the production line for electrical continuity on all pins, with Bit Error Rate (BER) application test
- UL CMG fire rated in all lengths
- 5 Year Warranty















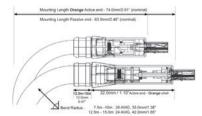








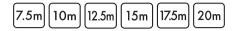






# PRS<sup>3</sup> - Active Optical Cable (AOC) - Compact Connector





#### 4K UHD 18Gbps ACTIVE OPTICAL HDMI CABLE - COMPACT CONNECTOR

Kordz PRS<sup>3</sup> features a narrow profile full metal die-cast shell assembly behind a unique grip tab HDMI connector for 3kg retention. Engineered to mitigate connector dropout potential - not suitable for repeated plug/unplug events.

- Active Optical Cable (AOC) 7.5m 20m, 4K/UHD 18Gbps certified by DPL Labs™
- 18mm wide connector engineered to fit through a 1"/25mm conduit
- Reinforced internals for superior flexibility and pull strength during installation
- Light weight & flexible
- No external power requirements works just like a 1m HDMI Cable
- 100% of units tested on the production line for electrical continuity on all pins with additional 4K (2160p/60), 4:4:4, 17.82Gbps application test
- High Speed, all lengths
- LS7H fire rated
- 5 Year Warranty















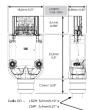


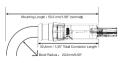














# PRS<sup>3</sup> - Active Optical Cable (AOC) - HDMI Cable





#### 4K UHD 18Gbps ACTIVE OPTICAL HDMI CABLE

The PRS3 AOC cable is incredibly lightweight, flexible and durable and is designed and engineered specifically with Home Technology Professionals and Commercial integrators in mind, whilst the end user will enjoy its performance capabilities to provide 4K resolutions with HDR and more. The design elements that make it stand out from the rest, is the really smooth, thin outer jacket making it easy to pull through joists and studs and the 20kg (44 pound) pull rating. The connector head-shell has been designed to be incredibly compact, and only 18mm. wide, making it easy to pull through 25mm (1") conduit. It is currently available in lengths of 25 0m & 30 0 meters

- Active Optical Cable (AOC) 25m & 30m, 4K/UHD 18Gbps certified by DPL Labs™
- 18mm wide connector engineered to fit through a 1"/25mm conduit
- Reinforced internals for superior flexibility and pull strength during installation
- Light weight & flexible
- No external power requirements works just like a 1m HDMI Cable
- 100% of units tested on the production line for electrical continuity on all pins with additional 4K (2160p/60), 4:4:4, 17.82Gbps application test
- High Speed, all lengths
- LSZH fire rated
- 5 Year Warranty

















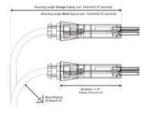














### R.3 - HDMI Cable





2.4 m 3 m 3.6 m 4.2 m 5.4 m

#### **RACK INSTALLATION HDMI CABLE**

Kordz R.3 is engineered for bespoke commercial AV rack and critical application installations. The unique combination of the die-cast HDMI connector, flexible halogen free cable and small profile lightweight design results in unrivalled installation flexibility and robustness. Beyond this, the R.3 cables have an increased shielding to prevent electromagnetic interference (EMI) which often occurs in rack environments.

- Engineered and built to deliver maximum commercial up-time
- 0.3 3.0m lengths in 0.3m increments for precision rack fit
- 3.6 5.4m lengths in 0.6m increments
- High bandwidth solid OFC conductors
- · Induction soldered pin transitions for benchmark inter-terminal uniformity
- Anti-fatigue Die-cast Zn alloy connectors tested to ≥1,000 cycles & 2kg retention force
- 100% of units tested for zero Bit Error Rate (BER) @ 340Mcsc,
   <0.05% in-field failure rate</li>
- Halogen-free construction
- THX® Certified 4K Interconnect
- DPL Certified 4K 18G-DC
- Lifetime warranty

















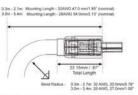












tle OO / AWG - 0.3m - 2.7m, 32 AWG, 4.8mm/0.19" e 3.0m - 5.4m, 28 AWG, 6.5mm/0.22" e



### **BRAVO** - 8K 48Gbps Performance HDMI Cables



# **Bravo**

0.6m 1.2m 1.8m 2.4m 3m

#### 8K 48Gbps PERFORMANCE HDMI CABLES

The Kordz Bravo HDMI Cables are the latest release to meet the new HDMI specification standard which provides an uncompressed data rate of up to 48Gbps. Kordz Bravo Ultra High Speed HDMI cables have a compact design, flexibility and provide the performance needed to support the video standards of 4K/120fps UHD, 5K Wide, 8K & 10K Wide. Bravo will also support up to 32 channels of audio including Dolby Atmos, Auro3D and DTS:X immerse audio formats.

- Ultra High Speed up to 3.0m for support to 10K Wide
- · 48Gbps data transfer rate
- · Compact design
- Flexible
- · Supports immersive audio up to 32 channels
- Newly design anodized head shell
- · Die-cast gold plated connector and contacts with a 2kg retention force
- 100% of units tested on the production line for electrically continuity on all pins, with full bit rate error (BER) application test @48Gbps





























### **EVS** - Audio/Videophile HDMI Cables



0.6m 1.2m 1.8m 2.4m 3m 5m

#### AUDIO/VIDEOPHILE HDMI CABLES

Kordz EVS-R Series HDMI cable comprises larger 28AWG solid main conductors to provide generous bandwidth headroom, with each silver plated (2% volume) to harness skin effect for superior signal integrity. Compared to EVO-R, this results in higher fidelity and dynamics in PCM/HD audio and HD video. Supports all 3D formats, HDMI Ethernet Channel and Audio Return Channel.

- Solid 28AWG conductors
- Solid core copper, silver plated TMDS channels (2% by volume)
- · Superior uncompressed HD/PCM audio
- · Halogen-free cable jacket and larger strain relief
- World class low jitter IR induction soldered connectors
- · 2kg retention force die-cast connectors































## **EVO** - Audio/Videophile HDMI Cables



0.6m||1.2m||1.8m||2.4m|| 3m

#### AUDIO/VIDEOPHILE HDMI CABLES

Kordz EVO-R Series HDMI cable offers the same meticulous standard of performance and reliability as the rest of the Kordz HDMI cables. Its compact construction and supremely light weight offers 360° fit-anywhere installation versatility, with the premium Halogen-free jacket for great tactile feel and environmental credential

- 4K 60Hz/4:4:4 for lengths to 2.4m and 4K 60Hz 4:2:0 to 3m
- Solid 32AWG OFC conductors in twisted pair array
- · Premium 24k Gold plated Die-cast connector
- 15µ" gold plated induction terminated contacts
- · Halogen-free cable jacket and strain relief
- Identified by green cable stripe





























# PRO - 8K 32.4Gbps DisplayPort Cables





[1m][1.5m][2m][3m][4m][5m]

#### **DISPLAYPORT 8K V1.4**

The Kordz PRO Series DisplayPort 1.4 Cable, is designed and engineered to provide a reliable connection for DisplayPort™ supported PCs and laptops to 8K/60Hz or 4K/240Hz UHD Monitor or other DisplayPort™ supported devices. It supports up to 32 channels of audio including Dolby Atmos, Auro3D and DTS:X immerse audio formats

- Engineered and constructed to ensure installation success and longevity
- DisplayPort™ 1.4 8K offers backwards compatibility with earlier DisplaPort™ standards
- Supports high resolution displays up to 8K 7680 x 4320@60Hz DSC1.2
- Supports High Bit Rate 3 (HBR3) mode with data rate up to 32.4Gbps
- Supports Display Stream Compression (DSC) 1.2
- Forward Error Correction (FEC)
- Supports Expanded Audio Transport up to 32 audio channels
- 1536kHz audio sample rate, and inclusion of all standard audio formats























### PRO - TOSLink Cable



#### THE PRO SERIES TOSLink

The PRO Series TOSlink is designed for the custom installer to provide a solution that just works. Installers will appreciate the compact TOSlink connectors and the secure click in fit.

The design features a carefully aligned centre pin and 1mm polyfibre conductor with polished ends, providing unhindered transmission over the length of the cable. The matte black PVC jacket is flexible and durable, suitable for both installation in-wall or to remain unobtrusively behind equipment.

- Tight tolerance for secure connection
- Shallow mounting depth connectors
- 1mm polyfibre with polished ends
- Flexible and durable matte black PVC jacket







## PRO Series - Integrator Audio/Video Cable



0.5m	1m	1.5m	2m	3m	5m	Single AV
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0.5m 1m 1.5m 2m 3m 5m 10m 15m Double AV

0.5m 1m 1.5m 2m 3m 5m 10m 15m Triple AV

#### INTEGRATOR AUDIO/VIDEO CABLE

The PRO series AV RCA cables are designed for the custom installer to provide a solution that just works. Installers will appreciate the compact RCA connectors using the micro-shell technology which is amongst the world's smallest RCA shells.

The matte black PVC jacket is flexible and durable, suitable for both installation in-wall or to remain unobtrusively behind equipment.

- · Purpose designed commercial grade
- · Shallow mounting depth connectors
- 75 Ω coaxial cable
- · 24AWG stranded oxygen free copper conductor
- · Double Shielded with 6mm@ cable jacket
- · Designed for S/PDIF, CV, Mono
- · Channel ID rings included
- · Flexible and durable matte black PVC jacket



Triple AV



### PLX - HDB.2 HDMI HDBaseT Extender



#### PLX-HDB.2 HDBaseT HDMI EXTENDER

The Kordz PLX-HDB.2 uses HDBaseT architecture to support UHD video to 40m, 1080p video to 70m with bi-directional IR and RS-232 control. The transmitter (TX) and receiver (RX) are both powered by a single DC power supply at the transmitter end. Each chassis is only 16mm high with all connections positioned on one side, allowing installation flexibility in tight spaces. Mounting brackets are included. IR and RS-232 cables are available separately.



- 4K UHD to 40m
- 1080/60 to 70m
- Supports HDMI 1.4 UHD60 8-bit 4:2:0
- Supports HDMI 1.4 UHD30 up to 12-bit 4:2:2, & 8-bit 4:4:4/sRGB
- HDCP 2.2 compatible
- HDBaseT certified
- HDBaseT Lite VS010 architecture
- IR & RS232 Control













#### PLX-HDR 3 HDRaseT HDMI FXTFNDFR

The PLX-HDB.3 is an ultra-thin HDMI 2.0 Extender with the ability to extend 1080p/4K HDMI signals over CAT6/CAT6a cable up to 70m(1080p) and 40m(4K60 4:4:4), power (PoC) can be powered at either end, and enables IR and RS232 pass-through to control source or display devices remotely. It adopts a visually lossless video compression technology (VLC) to provide HD lossless transmission of HDR and 4K 2160p/60 4:4:4 over CAT6/CAT6a cable. Mounting brackets are included. IR and RS-232 cables are available separately.

- Tx and Rx are 16mm thin with all connectors on one side
- Ideal for mounting in tight spaces
- Supports CATx UTP/FTP/STP cable
- 4K60UHD 4:4:4 (18Gbps) to 40m
- 1080p/60 to 70m
- Supports HDMI 2.0 4K60UHD 8-bit color depth 4:4:4
- Supports HDMI 1.4 4K24UHD HDR 10 colour depth 4:4:4







**C**HDBT<sup>™</sup>





















### **ONE Series** - Speaker Cable

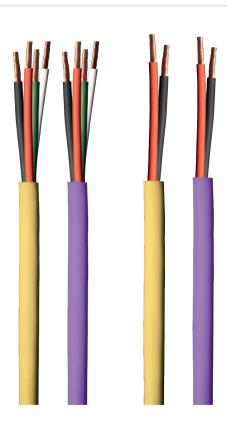
# ONE

#### **BULK BUY SPEAKER CABLE**

The Kordz ONE Series Speaker Cables has been designed, engineered and manufactured to the suit the discerning AV Integrator/Installer. Made to provide any system with a cost effective, high quality and performance speaker cable solution.

The new smaller and more compact Rapid-EZ-Reel packaging allows the easy flow of cable from the box, whilst keeping the cable from twisting and curling, greatly minimising snags during installation therefore saving precious time.

- Engineered and constructed to ensure installation success and ease
- 99.99% Oxygen Free Copper (OFC)
- Low smoke zero halogen (LSZH) construction
- Easy glide yellow or purple outer jacket available
- Supplied in the durable Rapid-EZ-Reel packaging \*152.5m (500ft) or \*305m (1,000ft) \*depends on cable gauge & configuration
- Metre marked
- Easy strip internal nylon rip cord
- Available in 2 or 4 core configurations
- Available in 12, 14 or 16 AWG wire gauge
- Industry standard wire colour coding (red, black, green, white)



# **ONE Series** - Bulk Speaker Cable Banana Plugs

# ONE

#### **BULK SPEAKER CABLE BANANA PLUGS**

The ONE Series versatile and robust banana plug incorporates a full metal 24k gold plated body covered by a colour coded molded plastic shell to eliminate the risk of electrical shorts.

- · Rear cable entry 4mm banana plug
- 24k gold plated body
- Offset oversized grub screws for superior cable termination
- · Accepts up to 10AWG stranded speaker cable
- · Molded plastic backshells eliminates the risk of speaker terminal shorts.
- · Economy and performance
- · Available in bulk trays of 20 plugs for each colour
- · Lifetime warranty





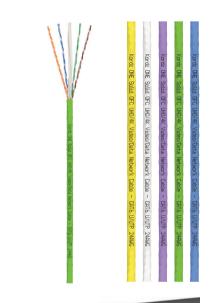
### **ONE Series** - CAT6 U/UTP Cable

# ONE

#### **CAT6 U/UTP CABLE**

The Kordz ONE Series CAT6 cable has been designed and engineered to provide any application with a cost-effective, high-bandwidth and high-performance cabling solution. This makes for a more robust and complex system at Gigabit speed and full duplex transmissions. The new smaller and more compact Rapid-EZ-Reel packaging allows the easy flow of cable from the box, whilst keeping the cable from twisting and curling, greatly minimising snags during installation therefore saving precious time.

- Suitable for 10BASE-T, 100BASE-TX, 1000BASE-T/1000BASE-TX (Gigabit) & 5GBaseT. PoE & PoE+
- U/UTP Fthernet CAT6
- Four Twisted Pairs 24 AWG Oxygen Free Solid Copper Conductors
- PVC Separator Reduces Crosstalk Between Pairs
- Suitable for IDC Terminations
- Supplied In The Durable Rapid-EZ-Reel Packaging 305m (1,000ft)
- Metre Marked
- 5 Colours Available: Blue, Green, White, Yellow & Purple
- Exceeds ANSI/TIA 568C-2.1 Standard
- Available In LSZH IEC60332-1 And UL 444 CM fire rated versions
- CPR Declared Performance: ONE-CAT6: Dca-s2, d2, a1 (EN 50575:2014+A1:2016)







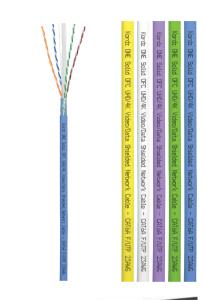
### **ONE Series** - CAT6a F/UTP Cable

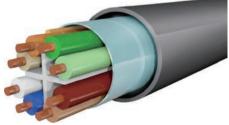
# ONE

#### CAT6A F/UTP CABLE

The Kordz ONE Series CAT6a cable has been designed and engineered to provide a cable system infrastructure with assurance for advanced applications that demand more bandwidth and greater performance. This makes for a more robust and complex system at Gigabit speed and full duplex transmissions. This premium shielded twisted pair (F/UTP) cable with grounding, provides industry-leading protection inherent in complex systems from external cable noise sources, also known as alien crosstalk or EMI (electromagnetic interference). The new smaller and more compact Rapid-EZ-Reel packaging allows the easy flow of cable from the box, whilst keeping the cable from twisting and curling, greatly minimising snags during installation therefore saving precious time.

- Suitable for 10BASE-T, 100BASE-TX, 1000BASE-T/1000BASE-TX (Gigabit) & 10GBaseT, PoF & PoF+
- F/UTP Ethernet CAT6a
- Four Twisted Pairs 23 AWG Solid Copper Conductors
- PVC Separator Reduces Crosstalk Between Pairs
- Mylar laminated aluminium tape shielding with a 26AWG drain wire
- Suitable for IDC Terminations
- Supplied in the durable Rapid-EZ-Reel packaging 152.5m (500ft)
- · Metre Marked
- 5 colours available: Blue, Green, White, Yellow & Purple
- Exceeds ANSI/TIA 568-C.2 and ISO/IEC 61156-5 standards
- Available in LSZH IEC60332-3-25 and UL 444 CM fire rated versions
- ODD Deslared Devisions and ONE OATCA, Described 11 (CN) F0F7F-0014 (A1-01-01)
- CPR Declared Performance: ONE-CAT6A: Dca-s1, d2, a1 (EN 50575:2014+A1:2016)







### **ONE Series** - CAT6 Termination Connector & Strain Reliefs

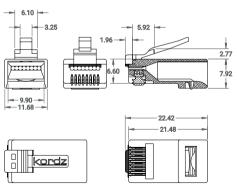
# ONE

#### RJ45 CAT6 PUSH-THROUGH SITE TERMINATION CONNECTORS & STRAIN RELIEFS

Kordz CAT6 RJ45 field termination connectors are designed and engineered for the installer to make installations easier. Even with something as small as an RJ45 plug, it must be engineered correctly and manufactured with precision processes to ensure that the connection is just going to work. These RJ45 connectors work with both solid and stranded cable 8 pins (gold plated) and 8 conductors. Kordz CAT6 RJ45 field termination connectors make it easy to quickly and efficiently terminate CAT6 wires of any length. Large cable openings reduce the distance between the wires and contacts, creating optimal performance and reliable connections every time. The Kordz Pass-through CAT6 connectors are designed for fast RJ45 connector installations. Conductors easily Pass-through the RJ45 connector for fast and easy verification of wire sequence



Tool required: Part #ONE-RJ45TOOL1







Strain relief sold seperately, available in jars of 100 pcs.



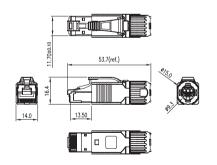
### **ONE Series** - CAT6a Shielded Site Termination Connectors

# ONE

#### **RJ45 CAT6A SHIELDED SITE TERMINATION CONNECTORS**

The Kordz Category 6a Shielded Field Termination RJ45 Connector offers easy, toolless termination and complies fully with ISO/IEC 11801 2.2 Edition Category 6a and ANSI/TIA-568-C.2 Category 6A standards for applications up to 10GBase-T Ethernet and frequencies up to 500Mhz. It offers a fully shielded brass nickel plated base, bronze nickel plated cover and gold plated phosphor bronze contact pins. Suitable for cable diameters between 6 and 8.5mm, whilst the strain relief is provided by the compression nut on the back of the connector. IDC termination accepts wire guages 22~26AWG. Two different wire managers are provided, one for 22~23AWG wires and the other for 24~26AWG wires. The connector is IP20 rated and 360° degrees shielding for greater tolerances to EMI/EMC. Designed and engineered for site termination and installation ease.









### **PRO** - CAT6 Patch Cables



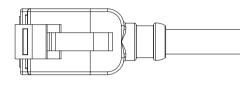


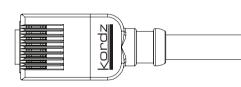
#### CAT6 PATCH CABLES

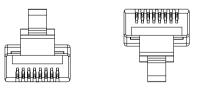
Kordz is introducing the new line-up, PRO Series Cat6 patch cables, in a slim profile 28AWG stranded copper conductor construction with a diameter of only 3.9mm. The Slim-PRO 28AWG patch cable is over 30% slimmer than a conventional 24AWG patch cable which makes the Slim-PRO patch cable flexible, easy to manage and install in any rack or network application.

- Engineered and constructed to ensure installation success and longevity
- Meets Category 6 ANSI/TIA 568-D.2 standard
- UTP 28AWG CAT6 Slim network patch cable
- UL (CM) fire rating
- 568B wire connection configuration
- Overall diameter of 3.9mm
- Nylon connector with 1000 bend cycle lock tab
- Available in 3 colours Black, blue & white.
- Available in 0.15m, 0.25m, 0.5m, 0.75m, 1.0m, 1.5m, 2.0m, 2.5m, 3.0m, 4.0m, 5.0m, 7.5m, 10.0m, 15.0m, 20.0m & 30.0m lengths

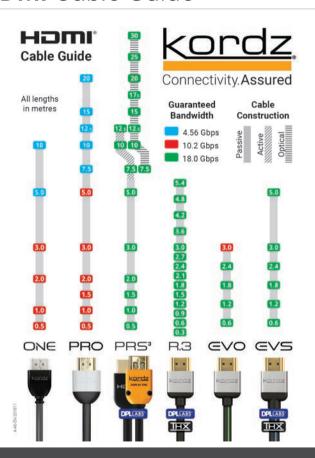








### **HDMI** Cable Guide







	Resolution	Frame Rate	Color depth (bits)	Chroma Subsampling	TMDS Clock (MHz)	Data Rate (Gbps)	Bandwidth (Hz)
	720p	60	8	4:2:0	74.25	2.22	371.25M
	1080p	24	8/HDR10	4:4:4/RGB	74.25	2.22	371.25M
2009	1080p	24	8/HDR10/12	4:2:0/4:2:2	74.25	2.22	371.25M
-	1080p	24	HDR12	4:4:4/RGB	148.5	4.455	742.5M
	1080p	24 3D	8/HDR10	4:4:4/RGB	148.5	4.455	742.5M
HDMI 1	1080p	24 3D	8/HDR10/12	4:2:0/4:2:2	148.5	4.455	742.5M
	1080p	60	8	4:4:4/RGB	148.5	4.455	742.5M
	1080p	60	8/HDR10/12	4:2:0/4:2:2	148.5	4.455	742.5M
	1080p	243D	HDR12	4:4:4/RGB	185.63	5.56	928.15M
	1080p	60	HDR10	4:4:4/RGB	185.63	5.56	928.15M
600	1080p	60	HDR12	4:4:4/RGB	222.75	6.68	1.114G
HDMI 1.4 - 2009	1080p	60 3D	8/HDR10/12	4:2:0/4:2:2	297	8.91	1.485G
È	1080p	60 3D	8	4:4:4/RGB	297	8.91	1.485G
₽	2160p	24	8/HDR10	4:4:4/RGB	297	8.91	1.485G
٦	2160p	24	8/HDR10/12	4:2:0/4:2:2	297	8.91	1.485G
	2160p	60	8	4:2:0	297	8.91	1.485G
	1080p	60 3D	HDR10	4:4:4/RGB	92.81	11.14	1.86G
013	2160p	24	HDR12	4:4:4/RGB	92.81	11,14	1.86G
	2160p	60	HDR10	4:2:0	92.81	11.14	1.86G
HDMI 2.0 - 2013	1080p	60 3D	HDR12	4:4:4/RGB	111.38	13.365	2.28G
4	2160p	60	HDR12	4:2:2	148.5	17.82	2.97G
-	2160p	60	8	4:4:4/RGB	148.5	17.82	2.97G

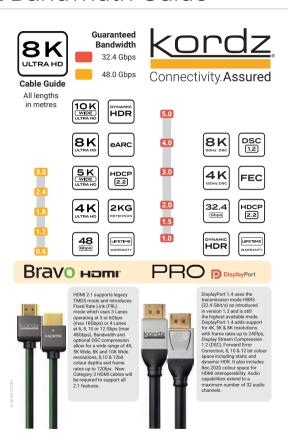
BHDMI 2.1 supports legacy TMDS mode and introduces Fixed Rate Link (FRL) mode which uses 3 Lanes operating at 3 or 6Gbps (max 18Gbps) or 4 Lanes at 6, 8, 10 or 12 Gbps (max 48Gbps). Bandwidth and optional DSC compression allow for a wide range of 4K, SK Wide, 8K and 10K Wide resolutions, 8-12bit colour depths and frame rates up to 120FPS. New Category 3 HDMI cables will be required to support all 2.1 features.

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A-A6-EN-201811



### 8K Bandwidth Guide



		andwidth G	uide			Κc	ordz
H	45	JMI°	Displa	ayPort		Conne	ctivity. <b>Assured</b>
	НΞ	Resolution	Frame Rate	Color depth (bits)	Chroma Subsampling	Speed	Data Rate (Gbps)
			60	HDR10 HDR12	4:4:4/RGB	Ultra	20.05 24.06
	4K	3840 x 2160p	100/120	8, HDR10 or 12 8-bit HDR10 HDR12	4:2:0/4:2:2 4:4:4/RGB	Ultra	32.08 32.08 40.10 48.11
			48/60	8, HDR10 or 12 8-bit HDR10 HDR12	4:2:0/4:2:2 4:4:4/RGB	Ultra	20.05 20.05 25.06 30.07
19	5K	5120 x 2160p	100/120	8, HDR10 or 12 8-bit HDR10	4:2:0/4:2:2	Ultra	40.10 40.10 50.12
8-20				HDR12	4:4:4/RGB	Ultra + DSC	60.14
HDMI 2.1 - 2018-2019			24/30	HDR10 or 12 HDR10 HDR12	4:2:0/4:2:2 4:4:4/RGB	Ultra	32.08 40.10 48.11
HDMI 2	8K		48/60	HDR10 HDR12 HDR10 or 12	4:2:0 4:2:0/4:2:2	Ultra	40.10 48.11 64.15
				HDR10 HDR12	4:4:4/RGB	Ultra + DSC	80.19 96.23
			100/120	HDR10 or 12	4:2:0/4:2:2	Ultra + DSC	128.30
			24/30	HDR10 or 12 HDR10 HDR12	4:2:0/4:2:2 4:4:4/RGB	Ultra Ultra + DSC	40.10 50.12 60.10
	10K		48/60	HDR10 or 12 HDR10 HDR12	4:2:0/4:2:2 4:4:4/RGB	Ultra + DSC	80.19 100.24 120.29
			100/120	HDR10 HDR12	4:2:0	Ultra + DSC	100.24 120.29
	Dis	olayPort Resolution	Frame Rate	Color depth (bits)	Chroma Subsampling	DSC 1.2 <sup>[1]</sup>	Data Rate (Gbps)
18-2019	4K	3840 x 2160	30 60 75 120 144 240	8-bit	4:4:4/RGB	No No No No DSC or 4:2:2 DSC or 4:2:0	7.73 15.68 19.74 32.28 39.19 or 26.16 68.55 or 30.92
DisplayPort 1,4 - 2018-2019	5K	5120 x 2880	30 60 120	8-bit	4:4:4/RGB	No No DSC or 4:2:0	13.68 27.73 57.08 or 27.36 69.30
<u>8</u>	•		240		4:2:2	DSC + 4:2:2	80.91
lasia	8K	7680 x 4320	30 60 120	8-bit	4:4:4/RGB 4:2:2	No DSC or 4:2:0 DSC + 4:2:2	30.60 62.06 or 30.60 85.28
			144		4:2:0	DSC + 4:2:0	77.56

[1] - Display Stream Compression (DSC1.2) is a VESA-developed low-latency compression algorithm to overcome the limitations posed by sending high-resolution video over physical media of limited bandwidth. It is a visually lossless low-latency algorithm based on delta PCM coding and YCoCgA colour space, it allows increased resolutions and colour deptins and reduced power consumption.

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D:A6-EN-201901



# Speaker Cable Guide

# Speaker Cable



Speaker C	Cable Options	Jac Mat		Jacket Colour				
Model	Configuration	Cross Section to scale	Spool Length metre- marked	LSZH	UL CL3	Purple	Yellow	Charcoal
ONE-SP122	12AWG (65 strands) 2 core OFC 7.5±0.2mm OD	<b>⊚</b>	152.5m 500ft	✓		✓	✓	2
ONE-SP142	14AWG (82 strands) 2 core OFC 7.5±0.2mm OD	<u>@</u>	152.5m 500ft	✓		✓	✓	2
ONE-SP144	14AWG (82 strands) 4 core OFC 8.8±0.2mm OD		152.5m 500ft	✓	1	✓	✓	2
ONE-SP162	16AWG (65 strands) 2 core OFC 6.0±0.2mm OD	<u></u>	305m 1000ft	✓		✓	✓	2
ONE-SP164	16AWG (65 strands) 4 core OFC 7.0±0.2mm OD	<b>③</b>	152.5m 500ft	1	1	✓	1	2

Internal Conductor Colours									
Model	Pair B								
2 core	Black, Red	-							
4 core	Black, Red	Green, White							

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- Available special order, minimums apply
- <sup>2</sup> Coming soon
- All models in plastic spool box 340H x 265W x 335D (mm).
- 12 cartons per pallet layer, maximum 3 layers per pallet.

# Speaker Cable Reference



Connectivity. Assured

Selected Americ	Formulae							
Conductors	10AWG	12AWG	14AWG	16AWG	18AWG	$d = 0.127 \text{mm} \times 92^{\frac{36 \cdot \text{AWG}}{39}}$		
Cross-section	•	•	•	•	•	$A = \pi \times (d/2)^2$		
Diameter (mm)	2.588	2.053	1.628	1.291	1.024	For inches, substitute		
Area (mm²)	5.261	3.309	2.081	1.309	0.823	0.127mm with 0.005in		
No. 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								

Note: Dimensions in above table are for solid cores. ONE-SP speaker cables use multiple strands to achieve the same cross-sectional area of conductor material. Therefore real-world stranded diameters and areas are approximately 5% and 10% larger, respectively.

ONE-SF	Elect	Electrical Characteristics - Power loss by cable length											
Cable		4Ω Sp	eaker			8Ω Sp	eaker			16Ω Speaker			
Gauge	10m 32ft	20m 65ft	40m 131ft	80m 262ft	10m 32ft	20m 65ft	40m 131ft	80m 262ft	10m 32ft	20m 65ft	40m 131ft	80m 262ft	
16AWG	6%	12%	22%	35%	3%	6%	12%	22%	2%	3%	6%	12%	
14AWG	4%	8%	15%	26%	2%	4%	8%	15%	1%	2%	4%	8%	
12AWG	3%	5%	10%	18%	1%	3%	5%	10%	<1%	1%	3%	5%	
Above fig										16AW	G ≤ 13.	7 Ω/km	
cable pov speaker of										14AWG ≤ 8.62 Ω/km			
and 39%	% (-2.1dB) at 75°C (167°F).								12AW	G ≤ 5.6	4 Ω/km		
Power lo	ss	5%	109	6	15%	20%	2	5%	30%	35	%	40%	
% to dB conversi	on	-0.2dB	-0.50	dB -0	0.7dB	-1.0dE	3 -1.	2dB	-1.5dB	-1.9	dB ·	2.2dB	

#### Compliance

#### Low Smoke Zero Halogen (LSZH)

Uses materials to aid human safety in the event of fire. Low smoke emission aids visibility and breathability during evacuation. Zero halogens are released when the cable is subjected to high heat sources and combustion, preventing the formation of toxic and corrosive gases. CPR Declared Performance: Eca (EN 50575:2014+A1:2016)

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#### UL CL3

Uses materials to prevent fire propagation via the cable in the event of fire. CL3 is a general pupose standard suitable for vertical trays but **not** for more demanding situations such as risers and tunnels.

B-A6-EN-201808



### CAT6/6a Cable Guide

# Unterminated Network Cabling



Connectivity. Assured
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Models	Class	Con	struction	Spool	Jacket	Options
Available	Class	Type	Conductors	Length	Rating	Colour
ONE-CAT6	Cat 6	U/UTP	Solid OFC 24AWG	305m 1000ft	LSZH	Blue Green
ONE-CAT6A	Cat 6a	F/UTP	Solid OFC 23AWG	152.5m 500ft	or UL CM	Purple Yellow White



	<b>n Names</b> nex E)						
Name	Twisted Pai Shielding						
U/UTP	-	-					
U/FTP	-	Foil					
F/UTP	Foil	-					
S/UTP	Braiding	-					
SF/UTP	Braiding + Foil	-					
F/FTP	Foil	Foil					
S/FTP	S/FTP Braiding						
SF/FTP	Foil						
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- Metre-marked
- All models in plastic spool box 340H x 265W x 335D (mm).
- 12 cartons per pallet layer, maximum 3 layers per pallet.

Compliance - LSZH models
CPR Declared Performance:
ONE-CAT6: Dca-s2,d2,a1 (EN 50575:2014+A1:2016)
ONE-CAT6A: Dca-s1,d2,a1 (EN 50575:2014+A1:2016)
0.44 511 004 000

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# Ethernet over Copper Reference Guide

10BASE-T



1 lane 3

Ethernet	Twisted Pair Cable		Data <sup>1</sup>		Spectral	Data
Standard	Name	Rating (MHz)	Bandwidth (Mbit/s)	Bits/Hz	Bandwidth (MHz)	lanes per direction
40GBASE-T	Cat 8	2.000	40,000	6.25	1,600	
25GBASE-T		Cat 8 2,000	25,000	6.25	1,000	
10GBASE-T	Cat 6a	500	10,000	6.25	400	4 lanes <sup>2</sup>
5GBASE-T	Cat 6	250	5,000	6.25	200	4 lanes *
2.5GBASE-T	Cat 5e	100	2,500	6.25	100	
1000BASE-T		Cat be	100	1,000	4	100
100BASE-TX	Cat 5	100	100	3.2	100	

 Effective data bandwidth (after encoding overhead) is calculated as: Bits/Hz × Spectral Bandwidth × Data lanes per direction.

16

- 2. All four twisted pairs operate at full duplex (thus 4 lanes per direction)
- 3. One twisted pair operates TX at half duplex and another operates RX at half duplex. Two twisted pairs are unused.

10

Ethernet	Maximum Run Length			
Standard	<30m	<55m	<100m	
40GBASE-T	Cat 8	-	-	
25GBASE-T	Cat 8	-	-	
10GBASE-T	Cat 5e/6	Cat 6	Cat 6a	
5GBASE-T	Cat 5e	Cat 5e/6		
2.5GBASE-T	Cat 5e	Cat 5e	Cat 5e	
1000BASE-T	Cat 5e	Cat 5e	Cat 5e	

Cat 3

Lengths as recommended by 802.3x standards. It is generally possible to use lower rated cables for shorter runs.

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#### What About Cat 7 / 7a Cables?

These were originally intended for 10GBASE-T and higher but were supplanted by Cat 6a for 10BASE-T and bypassed by the 25 and 40GBASE-T standards.

Cat 7 is rated to 600MHz and

Cat 7 is rated to 600MHz and Cat 7a is rated to 1000MHz.

The twisted pairs are individually shielded and the cables are shielded overall, providing better resistance to crosstalk.

These cables are not ratified by TIA/EIA.



### Kordz - Global Offices

# kordz,

#### **EUROPE**

The Service Station Melton Road Hickling Pasture Nottinghamshire LE14 3QG United Kingdom sales@kordz.co.ul





#### HONG KONG

Unit C, 3/F.
Houston Industrial Building
32-40 Wang Lung Street
Tsuen Wan
New Territories
Hong Kong
info@kordz com



#### AUSTRALIA

Seaford Victoria 3198 Australia





HDMI 1.4 is the seventh revision of the High Definition Multimedia Interface (HDMI) standard and was published in 2009. HDMI 1.4 cables and devices must be able to transmit a minimum of 10.2 Gbps (gigabits per second). HDMI 1.4 enabled new features such as HEAC (defined below), 3D and the first versions of 4K.



HDMI 2.0 is the tenth revision of HDMI and was published in 2013. HDMI 2.0 cables and devices must be able to transmit a minimum of 18 Gbps. This was the first HDMI revision that truly allowed for Ultra HD/4K video. HDMI later added High Dynamic Range to the standard in the 2.0a and 2.0b revisions.



This is the most recent version of HDMI; released in 2017. HDMI 2.1 is perhaps the most drastic change to the standard since its inception. While the physical layout of the cables and connectors are the same, the transport mechanism changes. Other features found in the HDMI 2.1 specification include variable refresh rate, quick media switching and quick frame transport. HDMI 2.1 compatible devices and cables must be able to transmit and receive a massive 48Gbps.



AOC is the acronym for Active Optical Cable. Active optical cables use optical fibres to transport data, which is converted from electricity to light. This conversion enables signals to travel significantly greater distances than copper-based cables. AOC uses active electronics, built inside the head of the connector, which requires power (either from the source device or a separate power supply) to convert and transmit the signals.



High Bandwidth Digital Content Protection (HDCP) is the latest version of copyright protection, which is embedded in HDMI and DisplayPort. HDCP 2.2 was released in 2015 and is backwards compatible. Devices requiring HDCP 2.2 must have 2.2 compliant devices from source all the way to the device.



HDR stands for High Dynamic Range. HDR is a newer advancement in television which enables displays to show a greater range between the black and white levels on a display (called dynamic range). The greater the dynamic range, the more detail one can see in an image. There are various versions of HDR and each one has its pros and cons. The most common forms are HDR10, HDR10+, DolbyVision.



Dynamic HDR is the next evolution of High Dynamic Range video. How HDR differs lies in the metadata transmitted by source content. In standard HDR, a signal is sent when viewing begins where HDR is determined and if present, it remains in that state for the remainder of the content. Dynamic HDR allows for frame by frame HDR which allows for a movie to only show HDR in specific sequences, which allows for more efficient video transport and more impactful uses of HDR during the content.



ARC, or Audio Return Channel, is a feature that started in HDMI 1.4 and allows for audio to transmit from a television to a receiver or other device, as opposed to only sending audio from a source such as a Blu-Ray player to a television or receiver. This is a very useful feature for those "cutting the cord" where off air antennas are used or built-in streaming applications such as Netflix, which allows for a better listening experience by bypassing television speakers, which are usually substandard quality.





eARC or Enhanced Audio Return Channel is the next iteration found in the new HDMI 2.1 standard. The biggest change in eARC is immersive audio formats such as Dolby ATMOS, DTS:X and Auro3D. These audio formats allow for a greater listening experience by adding audio overhead and in a greater 3D type space, called object-based audio. eARC supports up to 32 channels of high resolution 192/24 audio.



HEAC stands for HDMI Ethernet/Audio Return Channel. Beyond ARC, HDMI 1.4 also added ethernet support. This enabled two-way internet connections via HDMI if one device has an established ethernet connection. This is particularly useful if a display needs an ethernet connection and a source, which is HEAC compatible, is already connected.



3D stands for three-dimensional video. 3D was very popular in the early 2010's and typically relies on glasses, either coloured or active shutter, to give an image three-dimensional depth. 3D often required higher refresh rates to allow for each eye to receive full resolution of the image. There are various formats for 3D, some of which require more data than others.



1080p is the top resolution for non UHD/4K displays. 1080p means there are 1080 vertical lines of resolution, along with 1920 lines of horizontal resolution. The p stands for progressive scan, which is a method where each horizontal line is scanned consecutively (1.2.3 etc) as opposed to interlace where odd then even lines are scanned (1,3,5 ... then 2,4,6...) Progressive scan provides a much better viewing experience than interlace. A 1080p image has 2.07 million pixels (2 megapixels).



4k Ultra HD is the next generation of high definition video, where both the vertical and horizontal resolution is doubled to 3,840 x 2160. There is a bit of a misnomer when calling Ultra HD 4K, as the resolution for Ultra HD falls just short of four thousand horizontal lines of resolution. This is due to the aspect ratio of televisions (16:9 or 1.78:1) being slightly narrower than cinemas (1.85:1). An Ultra HD image has 8.3 million pixels (8.3 megapixels).



This icon needs to be broken into a couple explanations, 4K refers to the native resolution of 4K, as described in the icon above. 60Hz refers to the how many frames are shown per second. There are many frame rates, but most common are 24, 25, 30, 50, and 60. The higher the frame rate, the more data. As an example, HDMI 1.4 could handle Ultra HD/4K with 4:4:4 24Hz, as the bitrate 8.91 gigabits/second (Gbps). The same signal at 60Hz comes in at 17.2 Gbps. 4:4:4 refers to the colour compression scheme, called chroma subsampling. Without getting too detailed 4:4:4 means there is no colour compression, thus providing pristine colour accuracy. Other options are 4:2:0 and 4:2:2 colour compression.



This icon states that this HDMI cable is capable of transmitting Ultra HD/4K signal up to 3 meters (9.84 feet)



This icon states that this HDMI cable is capable of transmitting Ultra HD/4K signals up to 5 meters (16.4 feet).





5K is specific to video shot in anamorphic aspect ratio (2.35:1). You most often see these commercial movie theaters. Videos output in anamorphic typically have a black bar on the top and bottom of the screen. The typical video resolution for 5K is 5120x2160. You'll notice that the vertical resolution is the same as 4K. Since there are more horizontal pixels, 5K resolutions have higher bitrates than 4K and not all cables are capable of transmitting 5K signals. 5K images come in at 22.1 megapixels.



8K is the next wave of high-resolution video and is double the vertical and horizontal resolution of Ultra HD/4K at 7680x4320. There are 33.2 million pixels (33.2 megapixels) in an 8K image.



10K is the double the vertical and horizontal resolution of 5K, which is found in videos shot and produced in anamorphic (2.35:1) aspect ratio. The most common resolution of 10K will be, as it is not widely adopted currently, 10240x4320. 10K equates to just over 44 megapixels.



10.2 Gbps means that the HDMI cable is capable of the speeds required in the HDMI 1.4 standard, which was released in 2009. In this case, the cable must be capable of sending/receiving 10.2 billion bits per second.



18 Gbps is based on the HDMI 2.0 standard, which was released in 2013. This means that the cable is capable of handling 18 billion bits per second.



48 Gbps is the latest speed for the newest standard, HDMI 2.1, which was released in the fall of 2017. At 48 billion bits per second, these cables are transmitting massive amounts of data and thus significant engineering and care is required to pull these off, particularly in distances beyond a few meters.



TOSLink is an optical audio cable, originally designed by Toshiba. TOSLink is easily identified by its square shaped connector, is used to transmit digital audio via S/PDIF (Sony Phillips Digital Interface) from a device or display to a receiver. TOSLink does have limitations and is not designed for immersive audio formats.



HD Audio is a term for high resolution audio. HD audio typically refers to content recorded and played back at rates at or higher than 44.1K samples per second and a bit depth of 16 or greater. Common HD audio formats are 96Hz/24b and 192Hz/24b.





HDBaseT is a proprietary format of transporting uncompressed HD and UHD video over ethernet. Founded by Valens, HDBaseT enables ease of distributing HD and UHD quality video throughout a residence via existing or new ethernet cables within the home.



This cable is able to transmit 4K video with 60 frames per second with 4:2:0 chroma subsampling up to forty meters (131.2'). This equates to approximately 10.2 Gbps.



This cable is able to transmit 4K video with 60 frames per second with uncompressed colours up to 40 meters (131.2'). This equates to 18 Gbps.



PoE (or Power over Ethernet) allows for devices to operate without the need for a separate power adapter, as the power is provided by a PoE switch. Based off the IEEE 802.3af-2003 standard, PoE provides up to 15.4 watts of power. IEEE 802.3af-2009, called PoE+ provides 25.5 watts of power. PoE is very useful for wiring devices such as video cameras and wireless access points. PoE is standardised to adhere to specific voltage ranges between 37 and 57 volts. This ensures that any PoE device connected to a system receives a compatible power supply.



PoC (or Power-over-Cable) works to similar principles (supplying simultaneous power and data signals over Cat cable) but is non-standardised and is applied to proprietary systems. Therefore, the voltage supply can be set to meet the needs of a specific product/system (which may be lower or higher than voltage range of PoE).



PoH (or Power over HDBaseT) combines the flexibility of PoE with HDBaseT. PoH has more power than PoE, at 100 watts which is enough to operate PoH enabled televisions.



This connector on this cable requires a minimum of 1 kg (2.2 lbs) of force to remove it from the connected device.



This connector on this cable requires a minimum of 2 kg (4.4 lbs) of force to remove it from the connected device.





This connector on this cable requires a minimum of 3 kg (6.6 lbs) of force to remove it from the connected device.



This denotes a cable which is able to output Ultra HD/4K resolutions at framerates up to 120 frames per second utilizing Display Stream Compression, which is a new feature added in the HDMI 2.1 specification.



This denotes a cable which is able to output 8K (33 megapixels) resolutions at framerates up to 60 frames per second utilizing Display Stream Compression, which is a new feature added in the HDMI 2.1 specification.



32.4 Gbps refers to 32.4 gigabits per second. This amount of data is often used in widescreen computer monitors, which are attractive to games looking for a wide field of view.



DSC 1.2 or Display Stream Compression version 1.2 is a video compression scheme developed by VESA which enables 3:1 compression over HDMI and DisplayPort. DSC is considered lossless and enables higher resolutions and framerates to be transported over cables otherwise unable to do so. HDMI 2.1 is the first HDMI standard which has allowed video compression.



FEC or Forward Error Correction is a transmission scheme/protocol used to prevent errors before they occur. DisplayPort 1.4 utilizes FEC which allows it to provide a more reliable signal.



## **Notes**



# Notes





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