

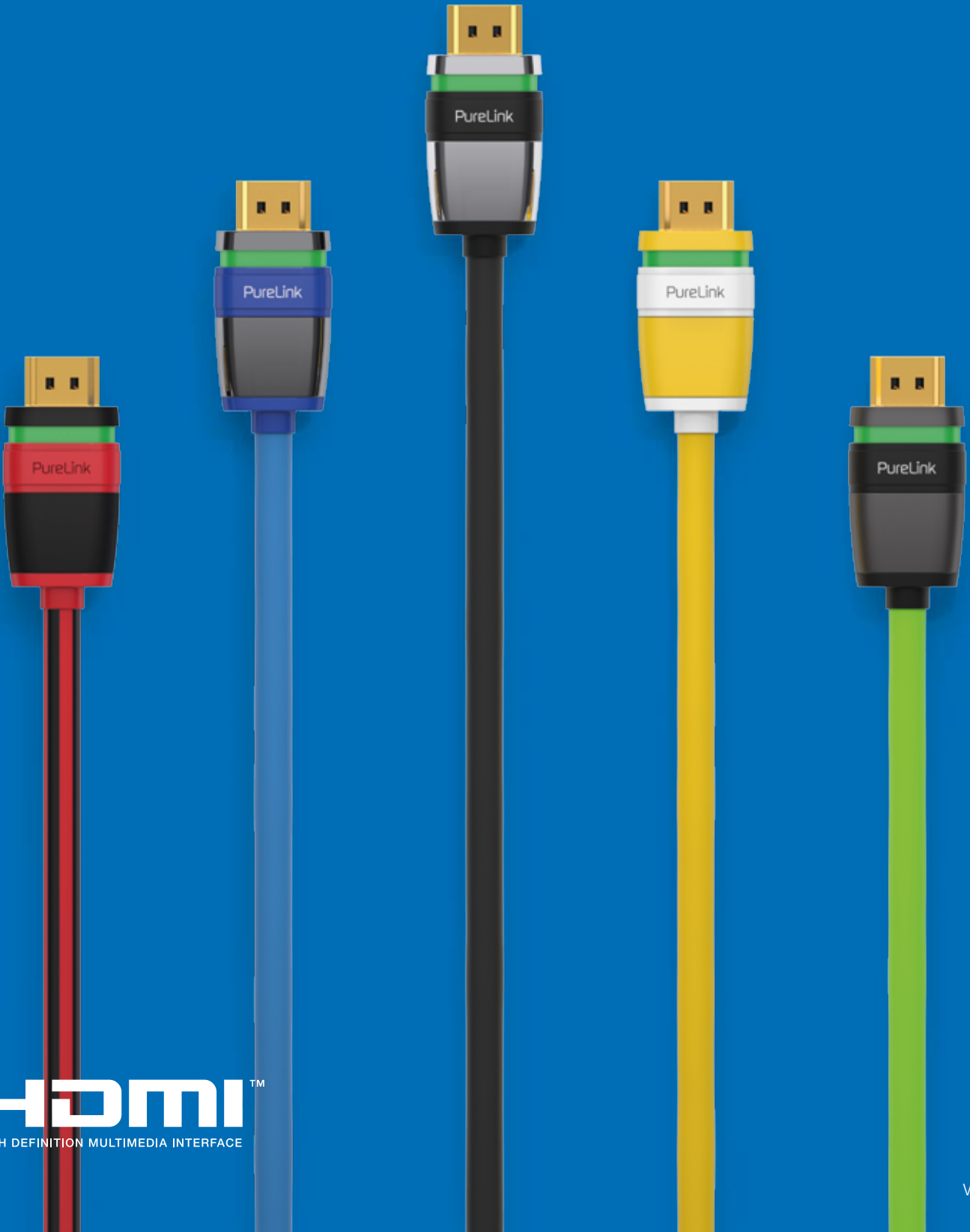
PureLink

digital solutions



Ultimate Series

The ultimate connection just got better



HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

PureLink Ultimate Series with Ultra-Lock-System™

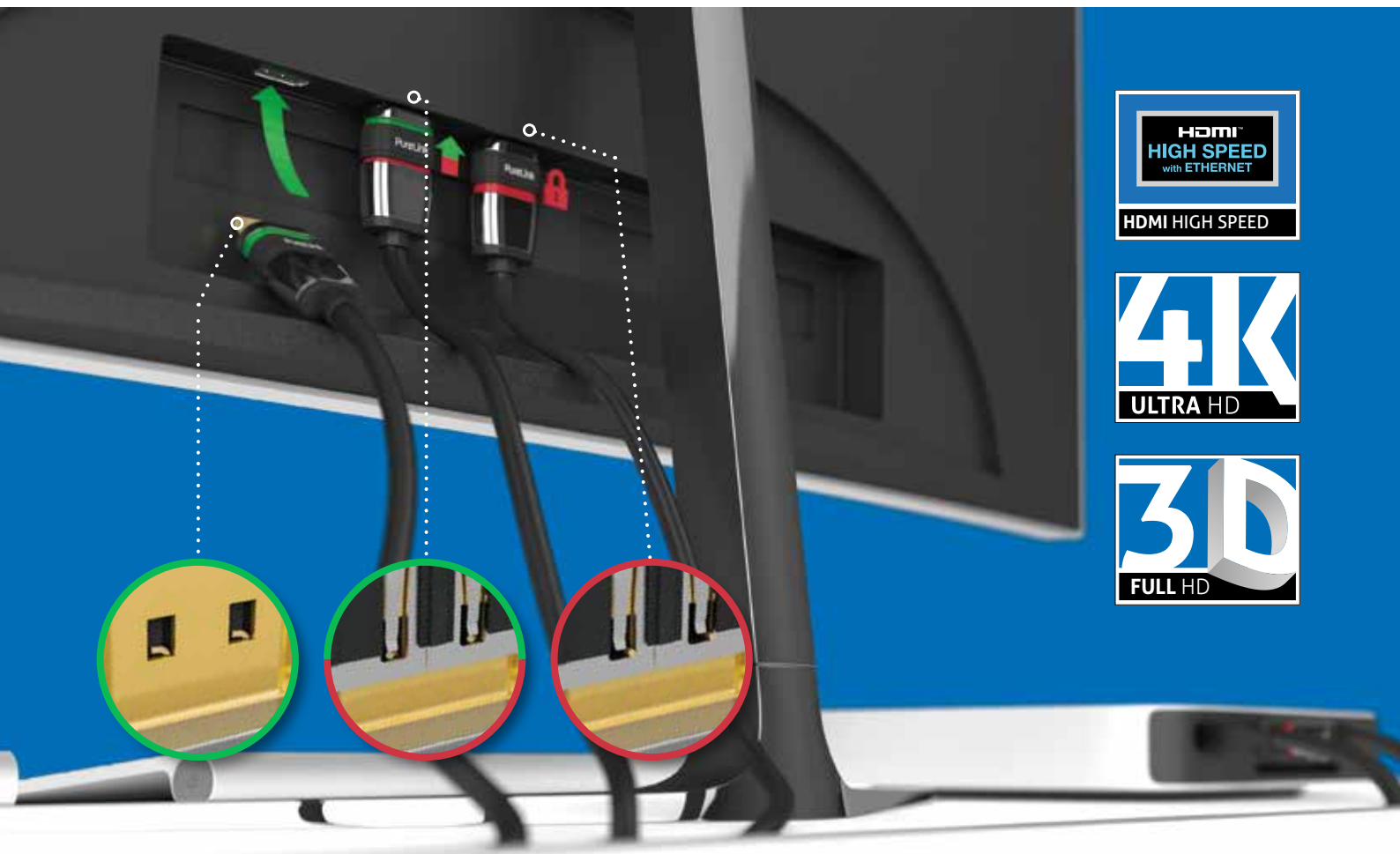
The ultimate connection.

The patented Ultra-Lock-System™ HDMI products of the Ultimate Series feature the world's first ATC certified, high retention locking HDMI connector.

As more and more devices are designed with badly positioned HDMI sockets, any accidental movement or pulling weight of the cable can easily disengage the connector, contributing to partial or even complete signal loss. The unique ULS™ locking mechanism prevents these downtimes by providing the most reliable and universally applicable high retention locking method for HDMI which is included in the internal construction of the ULS™ connector's casing.

- **Wired connections are still and will ever be the fastest and most secure connections for A/V installations and office PC networks.**
- **A vast majority of technical failure is caused by loose connections.**

The Ultimate Series with Ultra-Lock-System™ is the sure fix solution for locking HDMI, chosen by experts worldwide.





How it works

1. Ensure that the ULS™ HDMI cable is in unlocked position, indicated by the GREEN unlocked padlock imprint.
2. With the GREEN part visible, insert the ULS™ cable into your HDMI device and ensure it is completely inserted.
3. Slide the 360° switch forward to lock the connector inside the socket, indicated by the RED locked padlock. The ULS™ HDMI plug is now securely locked in place.











To remove the connector from the socket, simply slide the switch backwards so that the green indicator is visible again and then gently pull the plug out of the socket.

Say goodbye to loose connections - Connect and forget!



Test procedure to determine the retention force of ULS™

The ULS™ cables and adapters are tested in both unlocked and locked positions to always ensure valid results of the measured retention force. Using custom force testing equipment and graphical read-outs, it is possible to determine the specific characteristics for Ultra-Lock-System™ enabled products.

Retention Force KG	Sample 1		Sample 2		Sample 3		Sample 4		Sample 5	
	Unlocked	Locked	Unlocked	Locked	Unlocked	Locked	Unlocked	Locked	Unlocked	Locked
										
1.70	8.80	1.71	8.82	1.74	8.86	1.75	8.86	1.73	8.85	

Over a test batch of 5 pieces, the average maximum retention force in locked position is 8.83 kg (19.46 lbs) or 86.59 Newton

Test procedures and product validation

- ULS™ is recognised as the best locking HDMI system available on the market today.
- ULS™ has been tested by the founders of HDMI (Philips, Sony, etc.) and certified for 100% HDMI compliance.
- Agilent network analyzer E5071C feature with TDR functionality for 100% successful cable testing
- SHIMADZU micro focus X-ray TV system
- All materials tested by XRF, ICP & AA Labs

Factory overview

- Officially certified HDMI adopter
- ISO 9001 / 14001, IECQ, ETL, UL and Sony GP certified manufacturer
- 40,000m² of production premises and app. 1.200 employees
- Established R&D center in Beijing focusing on digital signal analysis and high frequency characteristics
- Automated and patented production and assembly methods using Japanese robotics (Fanuc)
- High precision die-casting facility using German technology (Frech)
- High precision stamping using Swiss technology (Bruderer)
- High precision tooling using Swiss technology (GFA)
- High precision injection molding using Japanese technology



Unique selling points

- High Speed HDMI with Ethernet - 18Gbps signal transmission for full-bandwidth 4K resolutions at 60Hz refresh rate with a maximum of 2160p, 12 bits, 60Hz and a color subsampling of RGB 4:4:4
- 5x higher retention force than with standard HDMI cables
- Supports all 4K / 2160p / UltraHD resolutions incl. HDR as well as Full3D, Deep Color x.v.Color, Dolby TrueHD, DTS-HD Master Audio, CEC and HDCP for pristine audio and video quality
- Small diameter and bend radius: AWG30 HDMI cable with 5.7mm outer diameter
- Patented wave soldering technology
- Completely shielded with Mylar and AL - resistant to EMI and RFI
- Incorporates Spectra7 chip technology for running 18Gbps without external power supply
- The Spectra7 chipset features integrated equalizers, line drivers, voltage regulators and input terminations
- Latest HDMI specifications and max. bandwidth for passive 0.5m - 3.0m cables
- CEC extension for expanded command and control of consumer electronics devices via one single control point
- Includes the latest HDMI features, such as 32 audio channels, 1536kHz audio sample frequency, 21:9 aspect ratio support and dynamic synchronization of video and audio streams
- Supports BT.2020 colorimetry with 10bits or more
- ULS™ cables have successfully been tested and certified for HDMI compliance by the HDMI founders group
- Compatible with all standard HDMI-A sockets, native in the majority of TVs, laptops and advanced gaming applications

Order options

- Ultimate Series - Standard assortment of connection cables, extension cables and adapters available for direct shipment
- Customised and individual cable series are possible to produce:
 - Minimum order quantity starting from 1.000pcs
 - Cable quality choice - OFC or silver bulk cable with PVC or LSZH jacket
 - Colour variations for cable head and sheath
 - Individual package design

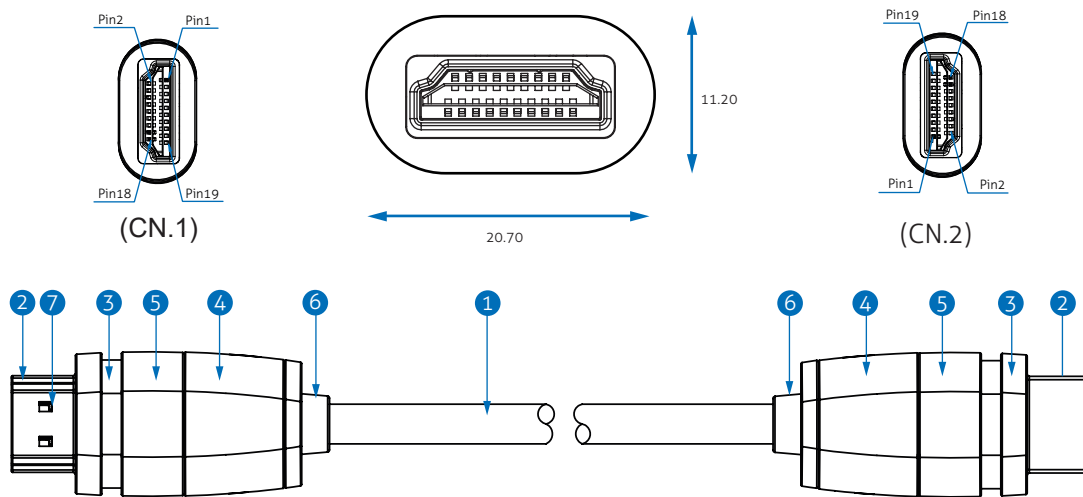
Universal fit

- Compatible with any ULS™ and non-ULS™ HDMI-A socket
- The ULS™ locking mechanism is included within the construction of the HDMI plug.
- The enclosing 360° degree easy lock switch is compliant with all HDMI sockets and easily accessible in any installation configuration.



Passive ULST™ cables

- The passive HDMI High Speed with Ethernet ULST™ cables comply with the latest HDMI specifications for 4K / HDR signal transmission
- The ULST™ passive cables are available from 0.5m to 3.0m cable lengths



Pin assignment and description

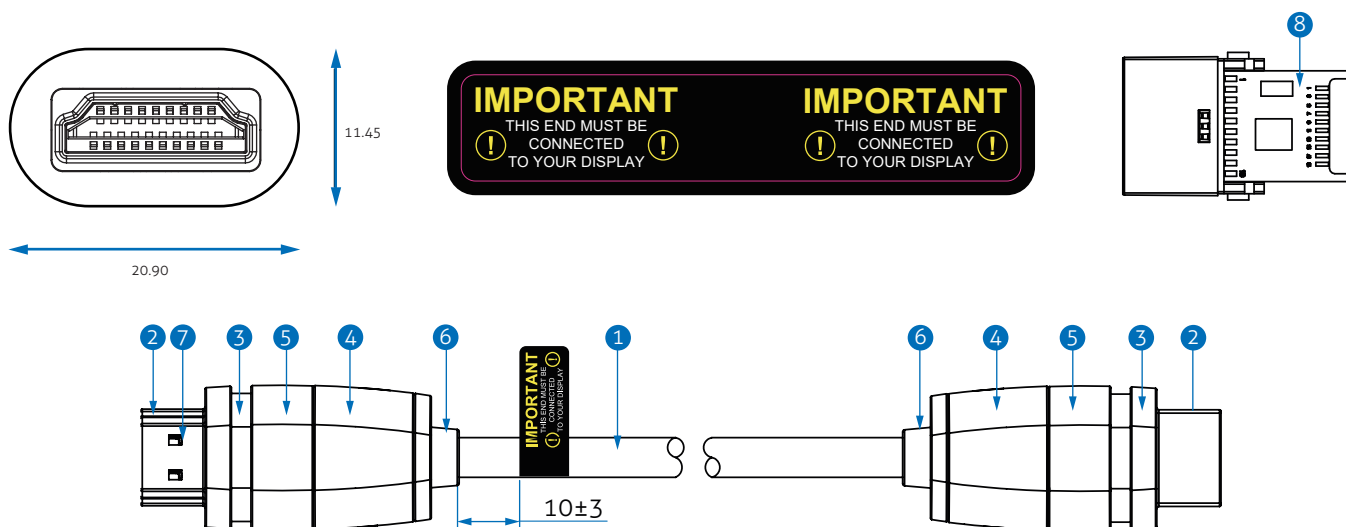
Pin No.	Signal Assignment	WIRE
1	TMDS Data2+	White
2	TMDS Data2 Shield	Drain
3	TMDS Data2-	Green
4	TMDS Data 1+	White
5	TMDS Data1 Shield	Drain
6	TMDS Data1-	Orange
7	TMDS Data0+	White
8	TMDS Data0 Shield	Drain
9	TMDS Data0-	Brown
10	TMDS Clock+	White
11	TMDS Clock Shield	Drain
12	TMDS Clock-	Blue
14	Utility/HEAC+	White
17	DDC/CEC Ground/HEAC Shield	Drain
19	Hot Plug Detect/HEAC-	Yellow
13	CEC	Purple
15	SCL	Blue
16	SDA	Green
18	+5V Power	Red
SHELL		Braid

Indicator No.	Description	Quantity
1	HDMI Cable, AWG30 OFC 5P+AWG 30 OFC*1P + AWG30*5C Cu-Braid, Black PVC, OD 5.7mm, Imprint Color: White	
2	HDMI A Male 19 Pin Connector. 15u" Gold Plated Contacts, 1u"Gold Plated Shell	2 sets
3	Green ABS Front Case w/ Sprayed Black (UV Coated)	2 sets
4	Red ABS Back Case w/ Sprayed Black (UV Coated)	2 sets
5	Black ABS Middle Case	2 pcs
6	SR: Molded PVC Black	2 pcs
7	Lock Material Steel	4 pcs



Active ULSTM cables

- The active ULSTM HDMI High Speed with Ethernet cables comply with HDMI specifications for 2K / 1080p as well as 4K@30Hz signal transmission
- The ULSTM active cables are available from 5.0m to 10.0m cable lengths



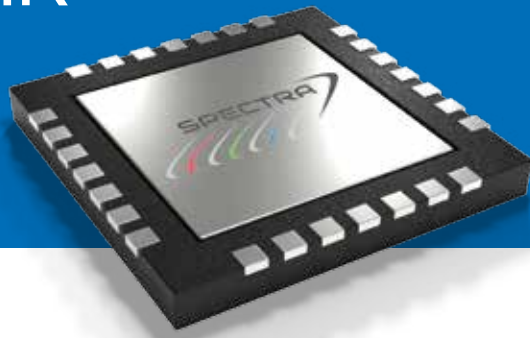
Pin assignment and description

Pin No.	Signal Assignment	WIRE
1	TMDS Data2+	White
2	TMDS Data2 Shield	Drain
3	TMDS Data2-	Green
4	TMDS Data 1+	White
5	TMDS Data1 Shield	Drain
6	TMDS Data1-	Orange
7	TMDS Data0+	White
8	TMDS Data0 Shield	Drain
9	TMDS Data0-	Brown
10	TMDS Clock+	White
11	TMDS Clock Shield	Drain
12	TMDS Clock-	Blue
14	Utility/HEAC+	White
17	DDC/CEC Ground/HEAC Shield	Drain
19	Hot Plug Detect/HEAC-	Yellow
13	CEC	Red
15	SCL	Blue
16	SDA	Purple
18	+5V Power	Green
SHELL		Braid

Indicator No.	Description	Quantity
1	HDMI Cable, AWG 30 OFC 5P+AWG 30 OFC*1C+AWG 34*3C Cu-Braid, Black PVC, OD 5.7mm, Imprint Colour: White	
2	HDMI A Male 19 Pin Connector 1u" Gold Plated Contacts, Gold Flash Plated Shell	2 sets
3	Green ABS Front Case w/ Sprayed Black (UV Coated)	2 sets
4	Re AX Back Case w/ Sprayed Black (UV Coated)	2 sets
5	Back ABS Middle Case	2 pcs.
6	SR: Molded PVC Black	2 pcs.
7	Lock Materil Steel	2 pcs.
8	PCB Board	1 pcs.

PureLink

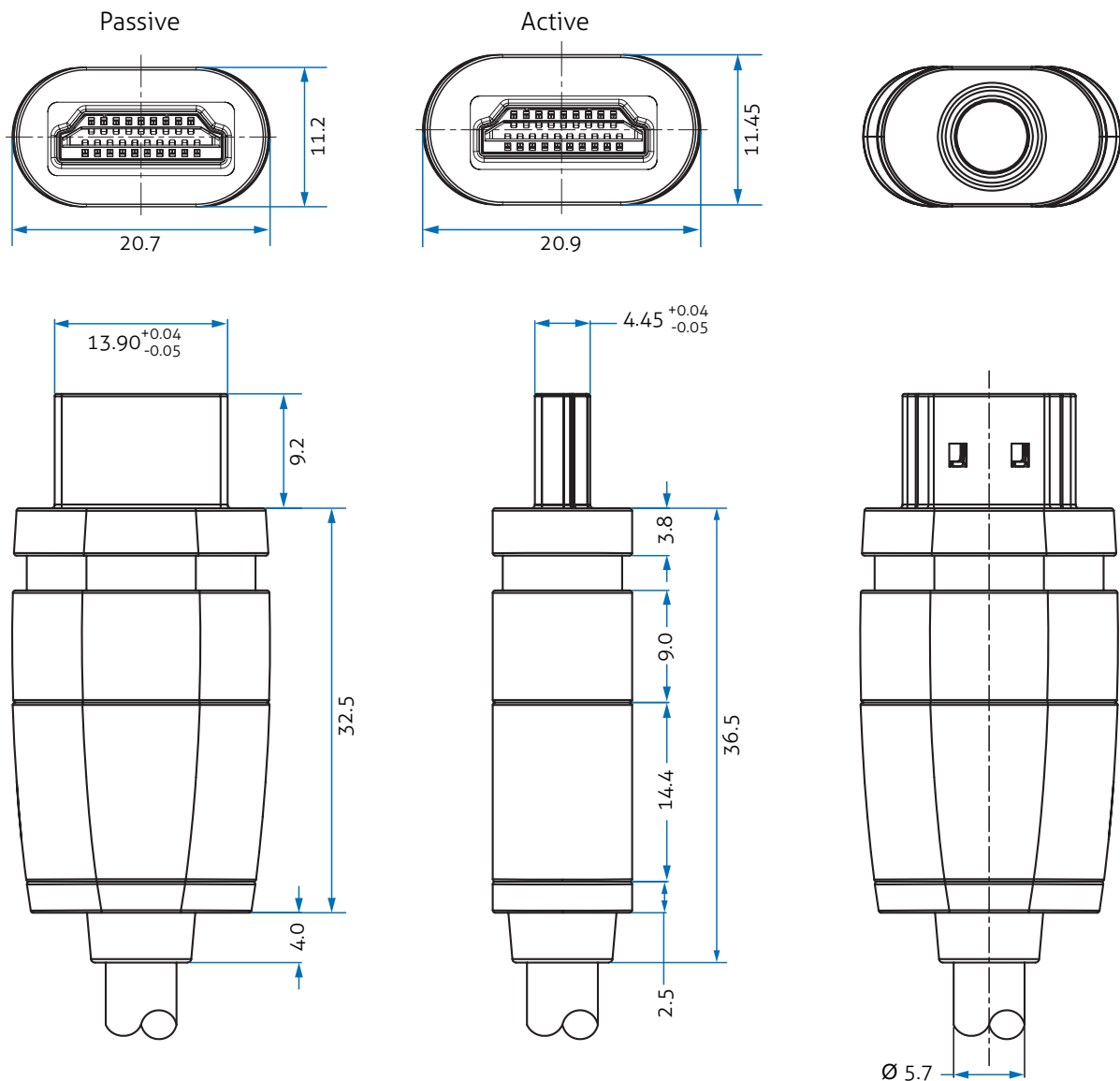
digital solutions

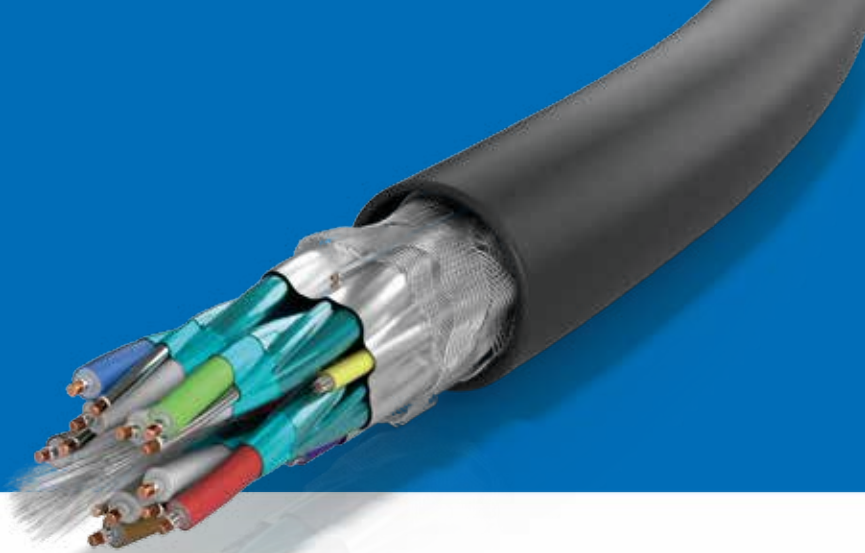


Active ULSTM™ cables powered by Spectra7 signal processing chip

The supreme and patented Spectra7 signal processing chip technology with 18Gbps and unique power harvesting techniques is compatible with any HDMI-A socket without requiring an external power source. With its integrated equalizers, line drivers and voltage regulators, the Spectra7 chipset equalizes the ULSTM™ HDMI cable's attenuation and delivers pristine audio and video quality to the latest and next-generation 4K / UltraHD displays.

Dimensions



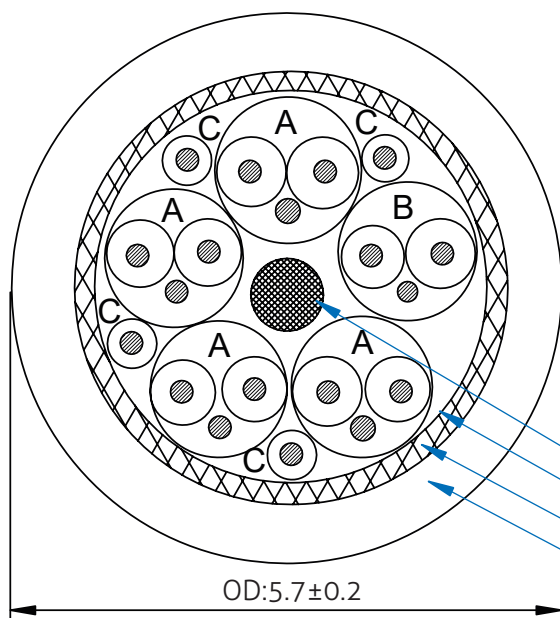


ULS™ premium cable construction for highest performance

COMPONENT A	TMDS DATA & CLK PAIRS
CONDUCTOR	1/0.26 (30AWG) Soild OFC (CONTROLLED FOR DIRECTION)
INSULATION	POLYOLEFIN OD:0.74±0.05
DRAIN WIRE	1/0.26 (30AWG) Soild OFC
SHIELDING	AL SIDE FACE IN+MYLAR&MYLAR

COMPONENT B	HEAC PAIR
CONDUCTOR	1/0.26 (30AWG) Soild OFC (CONTROLLED FOR DIRECTION OPPOSITE TMDS PAIR/ARROW DIRECTION)
INSULATION	POLYOLEFIN OD:0.74±0.05
DRAIN WIRE	1/0.26 (30AWG) Soild OFC
SHIELDING	AL SIDE FACE IN+MYLAR&MYLAR

COMPONENT C	SIGNAL WIRES
CONDUCTOR	1/0.26(30AWG) Soild OFC
INSULATION	FOAM-PE OD:0.60±0.05



- FILLER:** COTTON THREAD
- SHIELDING:** AL SIDE FACE OUT+MYLAR
- SHIELDING:** CU BRAID 85% COVERAGE
- JACKET:** BLACK PVC



ULS1000

Certified High Speed HDMI Cable with Ethernet

Item No.	Colour	Length
ULS1000-005	black	0.50m
ULS1000-010	black	1.00m
ULS1000-015	black	1.50m
ULS1000-020	black	2.00m
ULS1000-030	black	3.00m
ULS1000-050 (incl. APO™)	black	5.00m
ULS1000-075 (incl. APO™)	black	7.50m
ULS1000-100 (incl. APO™)	black	10.0m



ULS1005

LSZH High Speed HDMI Cable with Ethernet

Item No.	Colour	Length
ULS1005-005	black	0.50m
ULS1005-010	black	1.00m
ULS1005-015	black	1.50m
ULS1005-020	black	2.00m
ULS1005-030	black	3.00m
ULS1005-050 (incl. APO™)	black	5.00m
ULS1005-075 (incl. APO™)	black	7.50m
ULS1005-100 (incl. APO™)	black	10.0m



ULS1010

LSZH High Speed HDMI Cable with Ethernet

Item No.	Colour	Length
ULS1010-005	blue	0.50m
ULS1010-010	blue	1.00m
ULS1010-015	blue	1.50m
ULS1010-020	blue	2.00m
ULS1010-030	blue	3.00m



ULS1020

LSZH High Speed HDMI Cable with Ethernet

Item No.	Colour	Length
ULS1020-005	yellow	0.50m
ULS1020-010	yellow	1.00m
ULS1020-015	yellow	1.50m
ULS1020-020	yellow	2.00m
ULS1020-030	yellow	3.00m



ULS020



Certified High Speed HDMI/DVI Cable

Item No.	Colour	Length
ULS020	black	0.10m

ULS1300



Certified High Speed with Ethernet Portsaver Adapter HDMI/HDMI

Item No.	Colour	Length
ULS1300-005	black	0.50m
ULS1300-010	black	1.00m
ULS1300-015	black	1.50m
ULS1300-020	black	2.00m
ULS1300-030	black	3.00m

ULS010



Certified High Speed Portsaver Adapter HDMI/DVI

Item No.	Colour	Length
ULS010	black	0.10m

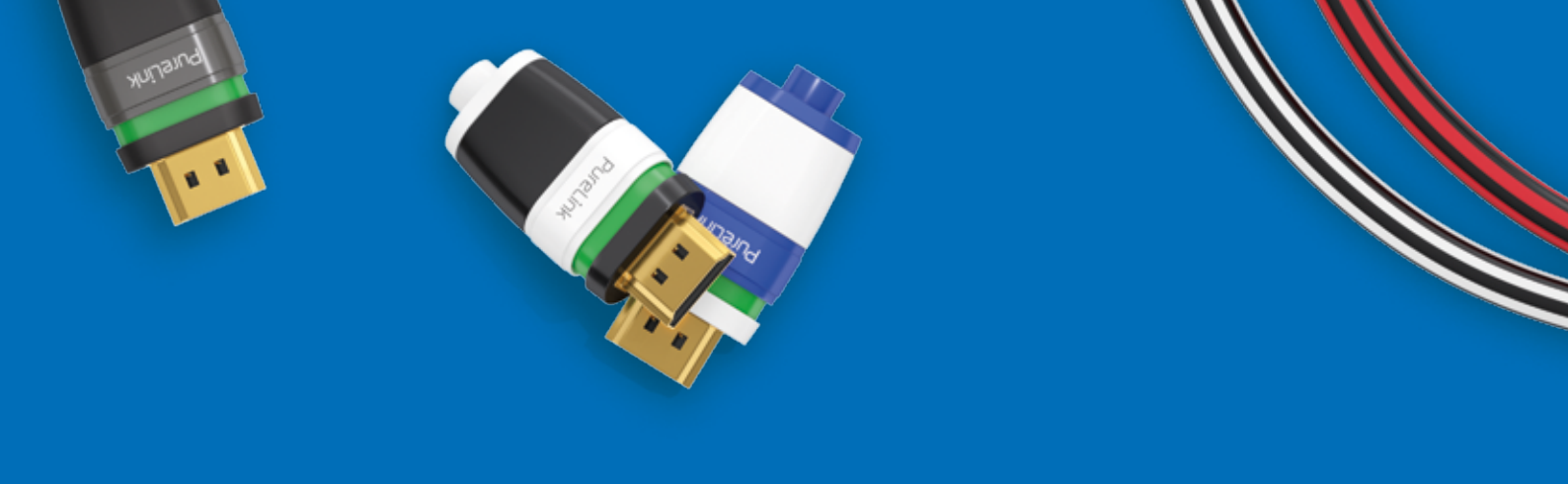
Packaging

- Packaged in PET polybags including imprint (series-specific, OEM, individual, etc.)
- Product information sticker on front, including cable length, barcode and short description
- Pre-assembled velcro strap for easy cable management
- Protective dust caps on each HDMI connector

Item No.	Length (m)	QTY / Carton	Net Weight (KG)	Gross Weight (KG)	Measurement (m ³)
ULS1000-005	0.5	96	3.60	6.30	0.043
ULS1000-010	1	64	3.90	6.20	0.043
ULS1000-015	1.5	64	5.40	7.70	0.043
ULS1000-020	2	52	5.60	7.60	0.043
ULS1000-030	3	44	6.40	8.60	0.043
ULS1000-050	5	36	7.80	10.00	0.043
ULS1000-075	7.5	32	9.90	12.00	0.043
ULS1000-100	10	28	11.40	13	0.043



Standard packaging design

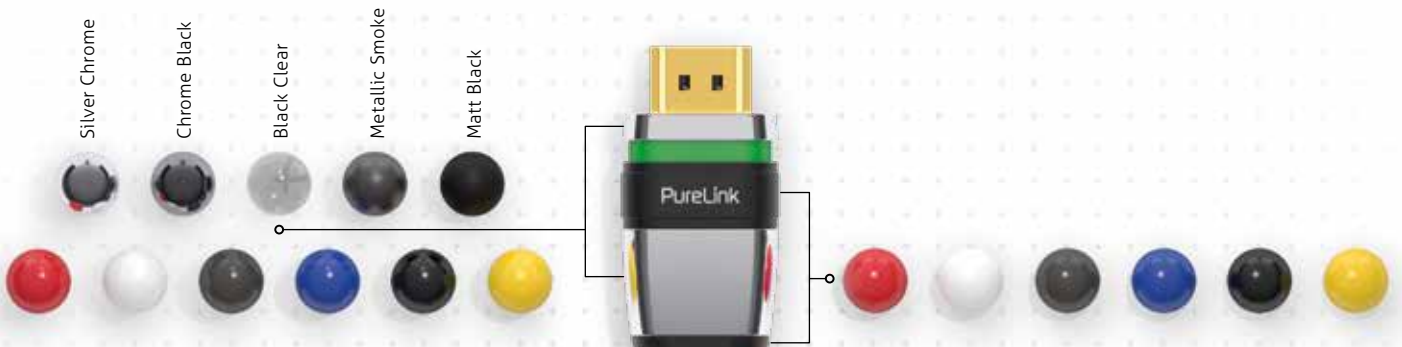


Customised ULS™ cables

Have your own customized cable series and profit from all the advantages of the Ultra-Lock-System™. You are given a variety of individual features and materials to choose from. Realise your individual package design with a minimum initial order (MOQ) quantity of 1.000 pcs.

Colour variations for cable head

incl. clear & solid colour options



Colour variations for cable sheathing

incl. dual-color options



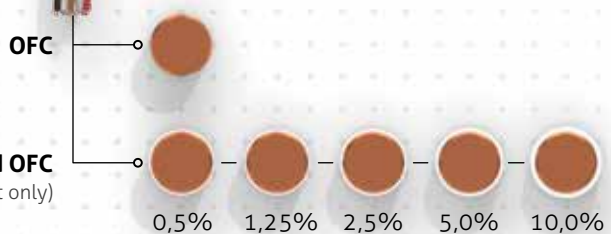
Cable jacket / sheathing quality choice

Premium **LSZH** (Low-Smoke-Zero-Halogen) jacket for critical applications
or
High-quality **PVC** jacket



Conductor quality choice

"Performance Series" made of **silver-plated OFC** conductors with 0,5% up to 10% silver content
or
"Premium Series" made of **Oxygen-Free-Copper**



PureLink

digital solutions

PureLink GmbH

Von-Liebig-Straße 10
D - 48432 Rheine
Germany

Telefon: 0049 (0)5971-800 299 -0
Fax: 0049 (0)5971-800 299 -99

E-mail: info@purelink.de
Internet: www.purelink.de

© 2017 PureLink GmbH. All rights reserved.
All trade names are registered trademarks of
respective manufactures listed.
HDMI is a trademark of HDMI Licensing LLC.