

SOMMER CABLE

HI-HAOC

DESCRIPTION

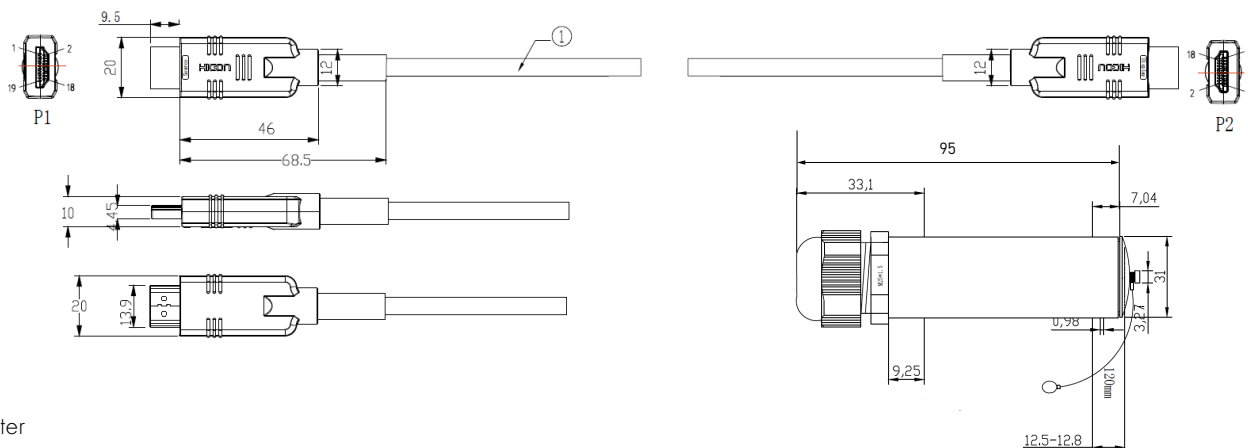
Our armored HDMI Active Hybrid Cable is the most competitive long reach HDMI interconnection solution on the market. It supports HDMI Data Rate 6Gbps per channel, total 18Gbps with light weight, flexible and ultra-small long-term bending radius hybrid cable. With our advanced optical converter embedded. This HDMI Hybrid Cable provides full HDMI signal integrity, support up to 100m maximum length, plug and play. No external power required.

KEY FEATURES

- Plug and Play
- Compatible with HDMI 2.0 standard.
- Support HDCP1.4/2.2
- Low Power Consumption: 250mW (max).
- Self-detecting function for EDID information
- No loss of signal - delivering crystal clear digital images instantly.
- Supports computer resolutions to 1080P and 4K2K(60P).
- Hybrid optical cable with fiber and copper wire
- Crush Resistance: Long term 100kg ; Short term 200kg
- Crush Resistance Connector Relief: 68kg
- Glandmaster protective housings for safe transportation on each connector
- Bend radius: 45mm

APPLICATIONS

- Digital Signage
- LED signboards in streets and in stadiums
- Medical Imaging Equipment
- Airplane On-board Video System
- Home Theater
- Blue-ray, 3D video, Projector, Set-up box, DVR, Game Consoles and Computer
- TV Broadcast Station
- Conference Room Video Equipment
- Security systems



Article number: HI-HAOC

HICON HDMI AOC-Armored Cable 1 x HDMI male ↔ 1 x HDMI male

UHD 4K @60fps YUV 4:4:4, HDMI 2.0a compatible, HDCP support up to V2.2, HDR/ ARC/ HEC/ EDID support
21Gbps Bandwidth / 600MHz Pixel clock

EAN-Code:	Art. No. HI-HAOC	Checked: OC	Size: A4	Date: 17.09.2020	Page
	Material:	SOMMER CABLE GmbH Humboldtstraße 32-36 75334 Straubenhardt / Germany		Telefon: +49 (0)7082-49133-0 Support Tel: +49 (0)7082-49133-10 Fax: +49 (0)7082-49133-11 E-Mail: info@sommercable.com	

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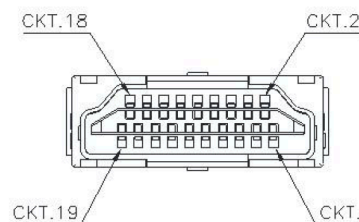
HI-HAOC

SPECIFICATIONS

Units	Transmitter (Source)	Receiver (Sink)
HDCP & DDC	HDCP 2.2 Fully Support bi-directional EDID and HDCP communication	
Video Bandwidth	6 Gbps/x3Channel (max)+ Clock.	
Supported Resolution & Distance	PC: WUXGA 1920 x 1200 up to 100 meter, HDTV : 480p, 720p, 1080i and 1080p deep color, 4K(60P), 3DFull HD 1920 x 1080 up to 100 meters	
O/E Converter	4 channel 850 nm VCSEL array	4 CH GaAs PD array
Connector Type	HDMI type A	
Differential Input	100 ohm (typ)	
Operation Temperature	-40...+80°C	
Storage Temperature	-40...+70°C	
Power Consumption	250mW (max)	
Power Supply	Non external power required	

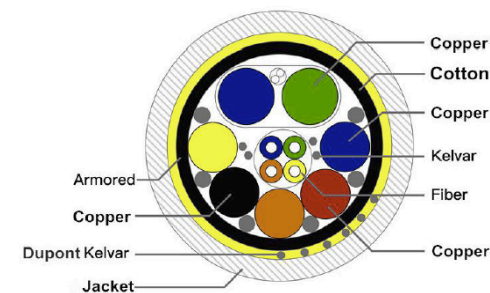
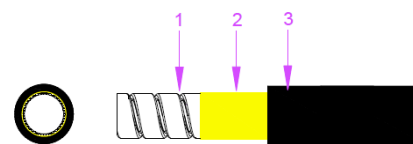
Item-Code	Description	Weight/kg	Weight/lbs
HI-HAOC-1500	HICON HDMI AOC-Armored Cable 15m 18G	1,15	2.54
HI-HAOC-1H00	HICON HDMI AOC-Armored Cable 100m 18G	6,76	14.90
HI-HAOC-2000	HICON HDMI AOC-Armored Cable 20m 18G	1,45	3.20
HI-HAOC-3000	HICON HDMI AOC-Armored Cable 30m 18G	1,98	4.37
HI-HAOC-5000	HICON HDMI AOC-Armored Cable 50m 18G	3,74	8.25
HI-HAOC-7500	HICON HDMI AOC-Armored Cable 75m 18G	5,13	11.31
HI-HAOCG1H00	HICON HDMI AOC-Armored Cable on reel 100m	9,05	19.95
HI-HAOCG5000	HICON HDMI AOC-Armored Cable on reel 50m	5,01	11.05
HI-HAOCG7500	HICON HDMI AOC-Armored Cable on reel 75m	7,24	15.96

HDMI TYPE A PIN ASSIGNMENT



PIN	Function	PIN	Function
1	T.M.D.S. Data 2+	11	TMDS Clock Shield
2	T.M.D.S. Data 2 Shield	12	TMDS Clock-
3	T.M.D.S. Data 2-	13	CEC
4	T.M.D.S. Data 1+	14	Utility
5	T.M.D.S. Data 1 Shield	15	SCL
6	T.M.D.S. Data 1-	16	SDA
7	T.M.D.S. Data 0+	17	DDC/CEC Ground
8	T.M.D.S. Data 2 Shield	18	+5V Power
9	T.M.D.S. Data 0-	19	Hot Plug Detect
10	TMDS Clock+		

HYBRID CABLE DESIGN



Cable Structure	Material/Model	Specifications
1	Metal Tube	200CU Stainless steel 4.4±0.1
2	To strengthen the unit	Dupont Kevlar 1670D*4
3	Jacket	TPU 0D 5.8±0.2 mm

Tensile(N)		Crush Resistance(N/100mm)		Bending Radius(mm)		Temperature(°C)
Long Term	Short Term	Long Term	Short Term	Dynamic	Static	
400	800	1000	2000	10D	20D	-40~+80

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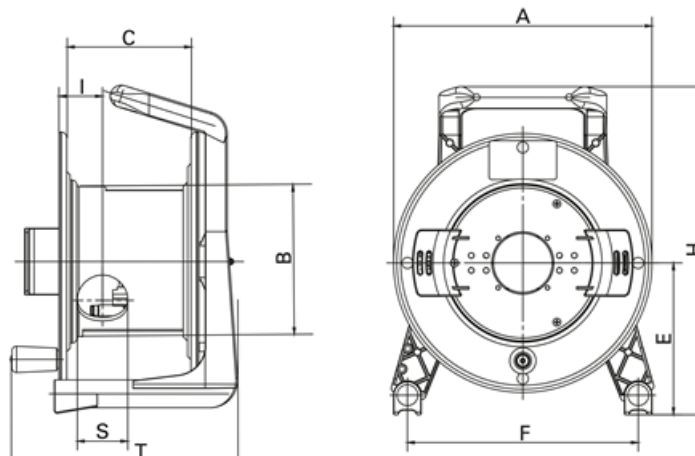
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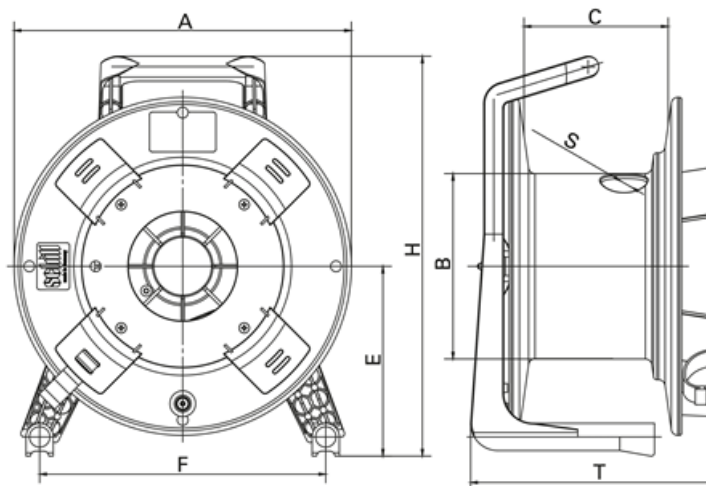
HI-HAOC

HI-HAOCG5000
HI-HAOCG7500
HI-HAOCG1H00



HI-HAOCG5000
on SCHILL GT 235 reel

A:	233mm	B:	135mm
C:	112mm	E:	137mm
F:	208mm	H:	295mm



HI-HAOCG7500, HI-HAOCG1H00
on SCHILL GT 310 reel

A:	310mm	B:	170mm
C:	132mm	E:	174mm
F:	263mm	H:	367mm

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