



Product Data Sheet

Argosy IMAGE 1000 ULTRA (LSOH)

Description



Primarily used for inter-rack wiring and longer runs, the IMAGE 1000 ULTRA range of UHD SDI Digital Video cables are designed to deliver superior performance for 4K UHD SDI video applications.

Produced exclusively for Argosy by Draka Prysmian, IMAGE 1000 ULTRA Suitable for 12Gbit/s, 4K (SMPTE 2082) UHD systems.

This cable has a CPR rating of Dca (s2 d1 a1), available in a choice of colours, Green/ Turquoise/ Violet. Supplied on 500m drums.

Product	SKU
IMAGE 1000 ULTRA (LSOH) - GREEN, VIOLET, TURQUIOSE 500M DRUM	100012 / 100029 / 100050



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Matrix to Determine Max. Transmission Length

Argosy Video Cables	SDI/SDV SMPTE 259M 270Mbit/s	1080i SMPTE 292M 1.5Gbit/s	720p/1080p SMPTE 424M 3Gbit/s	Quad Link SMPTE ST 2081 3Gbit/s	Dual Link SMPTE ST 2081 6Gbit/s	Single Link SMPTE ST 2082 12Gbit/s
Max. Attenuation	30dB	20dB	20dB	40dB	40dB	40dB
UHD 100	487	127	91	182	129	87

The maximum transmission distances are based on the maximum loss at half frequency mentioned in the corresponding specification. Today's devices use equalizers mainly designed for 20dB loss (see SMPTE 292M and SMPTE 424M). For the technical realization it is essential to check the equipment e.g. equalizers if they are suitable for the maximum values

Technical Specification

Argosy IMAGE 1000 ULTRA (LSOH) Specification

Construction	Velocity ratio: 78 %
Inner conductor: solid copper wire, silvered, diameter 1.2 mm	Screening factor: ≥ 100 dB
Insulation: Foam-PE, diameter 4.9 mm	Temperature range: -30° to +75°C
Outer conductor: Al-PET-Al-foil under tinned copper braid, diameter 5.7 mm	Technical data
Sheath: LSOH, diameter 7.0 mm	Weight kg/km: 63
Electrical properties	Cooper Content: 35
DC resistance: Inner conductor 15 Ω /km Outer conductor 9 Ω /km	Tensile Force N: 115
Mutual capacitance: 56 pF/m	Bend radius: 70mm
Characteristic impedance: 75 Ω	Storage: Inside



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Electrical data

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Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
1	1.8	2000	25.6
5	1.1	3000	31.0
10	1.6	4000	38.0
100	5.3	5000	41.0
200	7.6	6000	44.7
300	9.3	9000	54.7
500	12.3	10000	57.7
800	15.8	12000	63.2
1000	17.4	15000	70.7
1500	22.0		

Frequency (MHz)	Return loss (dB) several peaks are allowed
50 – 300	≥ 26
300 – 3000	≥ 22
3000 – 3500	≥ 18
3500 – 6000	≥ 15
6000 - 12000	≥ 15