



Product Data Sheet

Argosy IMAGE 360 ULTRA (LSOH)

Description



Primarily used for in-rack wiring and OB trucks, the IMAGE 360 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 360 ULTRA has a small diameter providing weight and space savings in high-density installations. 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 360 ULTRA (LSOH) - GREEN, VIOLET, TURQUIOSE 500M DRUM	AA-05-007 / AA-07-007 / AA-11-007



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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 50	258	74	50	102	72	49

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 360 ULTRA (LSOH) Specification

Construction	Velocity ratio: 78 %
Inner conductor: solid copper wire, silvered, diameter 0.7 mm	Screening factor: ≥ 100 dB
Insulation: Foam-PE, diameter 2.9 mm	Temperature range: -30° to +75°C
Outer conductor: Al-PET-Al-foil under tinned copper braid	Technical data
Sheath: LSOH, diameter 4.5 mm	Weight kg/km: 27.5
Electrical properties	Cooper Content: 14
DC resistance: Inner conductor 46 Ω /km Outer conductor 20 Ω /km	Tensile Force N: 60
Mutual capacitance: 56 pF/m	Bend radius: 45mm
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	2.4	2000	45.4
5	2.2	3000	55.6
10	3.1	4000	65.7
100	10.1	5000	72.8
200	13.9	6000	81.0
300	16.7	9000	99.2
500	22.0	10000	104.6
800	28.0	12000	114.6
1000	31.2	15000	128.1
1500	39.1		

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