an INFINIT® brand

# 6G SDI 75 Ohm 1.0/2.3 Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 1855A-WH Coax

The 75 ohm 1.0/2.3 male to 75 ohm 1.0/2.3 male cable using 75 ohm 1855A-WH coax, part number FMCA2735/WH, from Fairview Microwave is in-stock and ships same day. This Fairview 1.0/2.3 to 1.0/2.3 cable assembly has a male to male gender configuration with 75 ohm flexible Belden 1855A-WH coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2735/WH 1.0/2.3 male to 1.0/2.3 male cable assembly operates to 6 GHz and enables 6Gb/s data transfer rates for high resolution uncompressed video signal transmission. These products offer 4K and Ultra-HD quality signals that meet SMPTE Standard 2081-1.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

## **Electrical Specifications**

Description	Min	Т	ур	Мах	U	Inits	
Frequency Range	DC			6		GHz	
VSWR				1.5:1			
Velocity of Propagation		8	32			%	
Group Delay		1.2	2 [4]		ns/fl	t [ns/n	n]
Capacitance		16.3 [	53.48]		pF/fl	t [pF/r	n]
Inductance		0.107	[0.35]		uH/fl	t [uH/r	m]
DC Resistance Inner Con	ductor	20.1	65.94]		Ω/100	0ft [Ω/	Km]
DC Resistance Outer Cor	nductor	3.7 [	12.14]		Ω/100	0ft [Ω/	Km]
Operating Voltage (AC)				300	V	/rms	

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.052	0.075	0.108	0.176	0.289	dB/ft
	0.17	0.25	0.35	0.58	0.95	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

## **Mechanical Specifications**

#### Cable Assembly Weight

Cable

Cable Type Impedance Inner Conductor Type 0.1 lbs [45.36 g]

Belden 1855A-WH 75 Ohms Solid



FMCA2735/WH DATA SHEET

## **Configuration:**

- 1.0/2.3 Male
- 1.0/2.3 Male
- Belden 1855A-WH

## **Features:**

- Max Frequency 6 GHz
- 82% Phase Velocity
- PVC Jacket
- Meets SMPTE ST 2081-1
- 6Gb/s Transmission
- Cost Effective

# **Applications:**

- General Purpose
- Laboratory Use
- 6G-SDI, Video, and Broadband UHDTV
- Broadband Internet Delivery
- Broadcast A/V
- 4K/8K Video Equipment
- Medical Equipment Requiring High Speed Video
- HD Cameras

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Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter Copper, Bare PE 1 Aluminum Polyester Tinned Copper PVC, White 0.159 in [4.04 mm]

### Connectors

Description	Connector 1	Connector 2	
Туре	1.0/2.3 Male	1.0/2.3 Male	
Impedance	75 Ohms	75 Ohms	
Contact Material & Plating	Brass, Gold	Brass, Gold	
Contact Plating Spec.	10 µin min <mark>i</mark> mum	10 µin minimum	
Dielectric Type	PTFE	PTFE	
Outer Cond Material & Plati	ng Brass, Gold	Brass, Gold	
Outer Cond Plating Spec.	3 µin minimum	3 µin minimum	
Body Material & Plating	Brass, Nickel	Brass, Nickel	
Body Plating Spec.	100 µin minimum	100 µin minimum	

### **Environmental Specifications**

Temperature

Operating Range

-30 to +75 deg C

**Compliance Certifications** (see product page for current document)

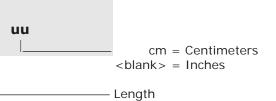
## **Plotted and Other Data**

- Notes:
- Values at 25°C, sea level.

## How to Order

Part Number Configuration:

FMCA2735/WH - xx



Example: FMCA2735/WH-12 = 12 inches long cable FMCA2735/WH-100cm = 100 cm long cable



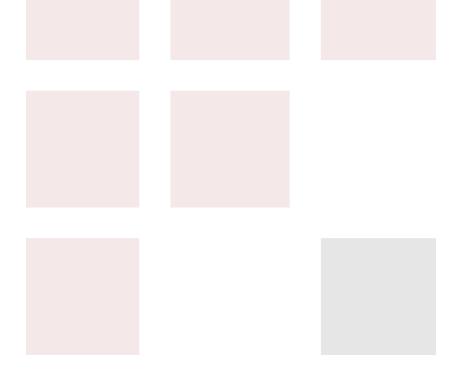


6G SDI 75 Ohm 1.0/2.3 Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 1855A-WH Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: 6G SDI 75 Ohm 1.0/2.3 Male to 75 Ohm 1.0/2.3 Male Cable 75 Ohm 1855A-WH Coax FMCA2735/WH

URL: https://www.fairviewmicrowave.com/6g-sdi-75-ohm-1.0-2.3-male-to-75-ohm-1.0-2.3-male-cable-75-ohm-1855awh-coax-fmca2735-wh-p.aspx

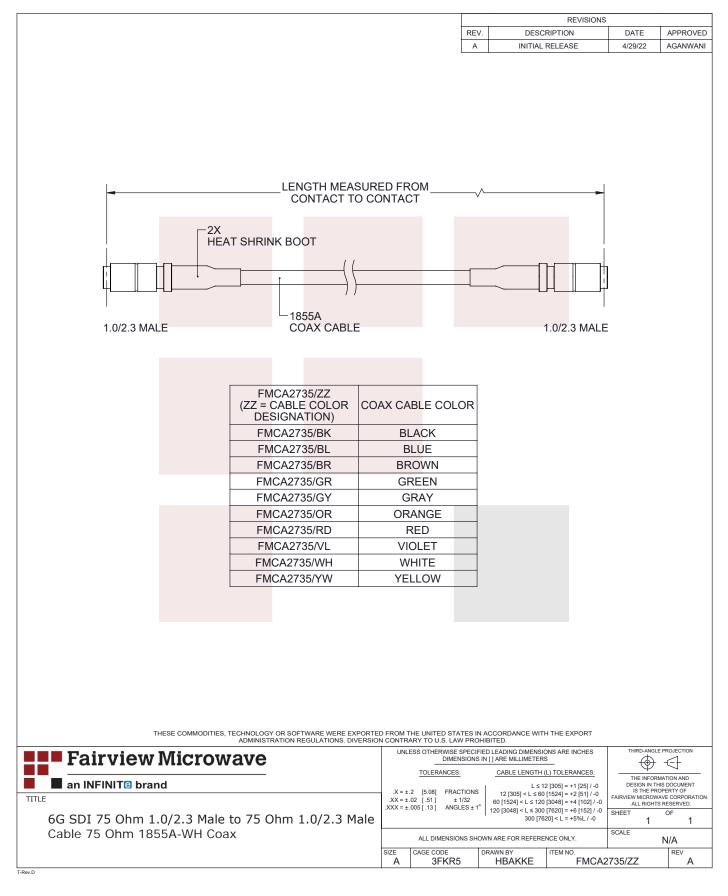
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