

## 6G SDI 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm 1855A-YW Coax in 120 Inch

The 75 ohm BNC male to 75 ohm BNC male 120 inch cable using 75 ohm 1855A-YW coax, part number FMCA2735/YW-120, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC cable assembly has a male to male gender configuration with 75 ohm flexible Belden 1855A-YW coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2735/YW-120 BNC male to BNC 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	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Velocity of Propagation		82		%
Group Delay		1.22 [4]		ns/ft [ns/m]
Capacitance		16.3 [53.48]		pF/ft [pF/m]
Inductance		0.107 [0.35]		uH/ft [uH/m]
DC Resistance Inner Conductor		20.1 [65.94]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		3.7 [12.14]		$\Omega$ /1000ft [ $\Omega$ /Km]
Operating Voltage (AC)			300	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.72	0.95	1.28	1.96	3.09	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 120 in [304.8 cm]  
 Weight 0.3 lbs [136.08 g]

#### Cable

Cable Type Belden 1855A-YW  
 Impedance 75 Ohms  
 Inner Conductor Type Solid



### Configuration:

- BNC Male
- BNC Male
- Belden 1855A-YW

### 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	Copper, Bare
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Aluminum Polyester
Shield Layer 2	Tinned Copper
Jacket Material	PVC, Yellow
Jacket Diameter	0.159 in [4.04 mm]

## Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Impedance	75 Ohms	75 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	10 µin minimum	10 µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Nickel	Brass, Nickel
Outer Cond Plating Spec.	50 µin minimum	50 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/YW** - **xx** **uu**

cm = Centimeters  
<blank> = Inches

Length

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

6G SDI 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm 1855A-YW Coax in 120 Inch 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.

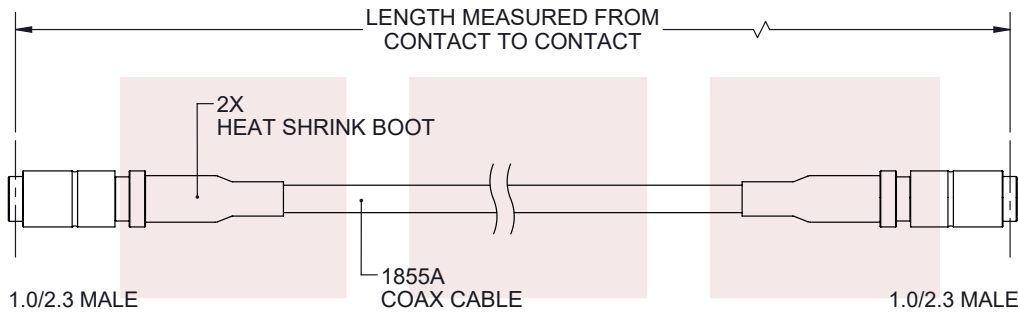
Click the following link to obtain additional part information: [6G SDI 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm 1855A-YW Coax in 120 Inch FMCA2735/YW-120](https://www.fairviewmicrowave.com/6g-sdi-75-ohm-bnc-male-to-75-ohm-bnc-male-cable-75-ohm-1855a-yw-coax-in-120-inch-fmca2735-yw-120)

URL: <https://www.fairviewmicrowave.com/6g-sdi-75-ohm-bnc-male-to-75-ohm-bnc-male-cable-75-ohm-1855a-yw-coax-in-120-inch-fmca2735-yw-120-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	4/29/22	AGANWANI



FMCA2735/ZZ (ZZ = CABLE COLOR DESIGNATION)	COAX CABLE COLOR
FMCA2735/BK	BLACK
FMCA2735/BL	BLUE
FMCA2735/BR	BROWN
FMCA2735/GR	GREEN
FMCA2735/GY	GRAY
FMCA2735/OR	ORANGE
FMCA2735/RD	RED
FMCA2735/VL	VIOLET
FMCA2735/WH	WHITE
FMCA2735/YW	YELLOW

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<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		THIRD-ANGLE PROJECTION 	
	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE 6G SDI 75 Ohm BNC Male to 75 Ohm BNC Male Cable 75 Ohm 1855A-YW Coax in 120 Inch	.X = ±.2 [ .51]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1
	.XX = ±.02 [ .51]	ANGLES ± 1°	12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				SCALE N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY HBAKKE	ITEM NO. FMCA2735/ZZ	REV A

T-Rev.D