75 Ohm 6G SDI HD-BNC Male to HD-BNC Male Cable Assembly using 1855A-GY Coax, 6 FT



LCCA30857/GY-FT6

Configuration

- Connector 1: HD-BNC Male
- Connector 2: HD-BNC Male
- Cable Type: Belden 1855A-GY

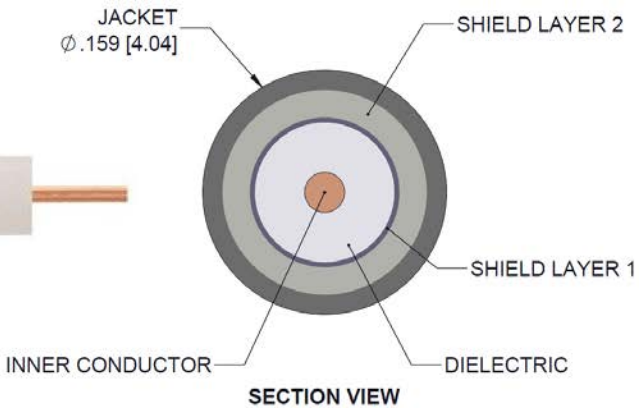
Features

- Meets SMPTE ST 2081-1
- 6Gb/s Transmission
- Cost Effective

Applications

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





SECTION VIEW

Description

L-com's LCCA30857/GY-FT6 is a 75 Ohm 6G SDI HD-BNC male to HD-BNC male cable assembly using 1855A-GY coax, 6 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com HD-BNC to HD-BNC cable assembly has a male to male gender configuration with 75 Ohm flexible 1855A-GY series coax and 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. The shielding of this HD-BNC cable is comprised of aluminum polyester.

Custom versions of this HD-BNC male to HD-BNC male cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day. Other available RF cable assembly value added services from L-com include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly. Contact a sales representative for testing or custom RF cable quotes. Part number LCCA30857/GY-FT6 L-com 75 Ohm 6G SDI HD-BNC Male to HD-BNC Male Cable Assembly using 1855A-GY Coax, 6 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units

LCCA30857/GY-FT6 REV 1 | © 2020 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.

75 Ohm 6G SDI HD-BNC Male to HD-BNC Male Cable Assembly using 1855A-GY Coax, 6 FT



LCCA30857/GY-FT6

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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.7 [12.14]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			300	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.52	0.65	0.85	1.26	1.94	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	72 in [182.88 cm]
Diameter	0.5 in [12.7 mm]
Weight	0.15 lbs [68.04 g]

Cable

Cable Type	Belden 1855A-GY
Impedance	75 Ohms
Inner Conductor Type	Solid
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, Gray
Jacket Diameter	0.159 in [4.04 mm]

LCCA30857/GY-FT6 REV 1 | © 2020 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.

75 Ohm 6G SDI HD-BNC Male to HD-BNC Male Cable Assembly using 1855A-GY Coax, 6 FT



LCCA30857/GY-FT6

Connectors

Description	Connector 1	Connector 2
Type	HD-BNC Male	HD-BNC Male
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	10 µin minimum	10 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Outer Conductor Plating Specification	100 µin minimum	100 µin minimum
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	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.

LCCA30857/GY-FT6 REV 1 | © 2020 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.

75 Ohm 6G SDI HD-BNC Male to HD-BNC Male Cable Assembly using 1855A-GY Coax, 6 FT



LCCA30857/GY-FT6

How to Order

Part Number Configuration: **LCCA30857/GY - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- LCCA30857/GY — Base Number

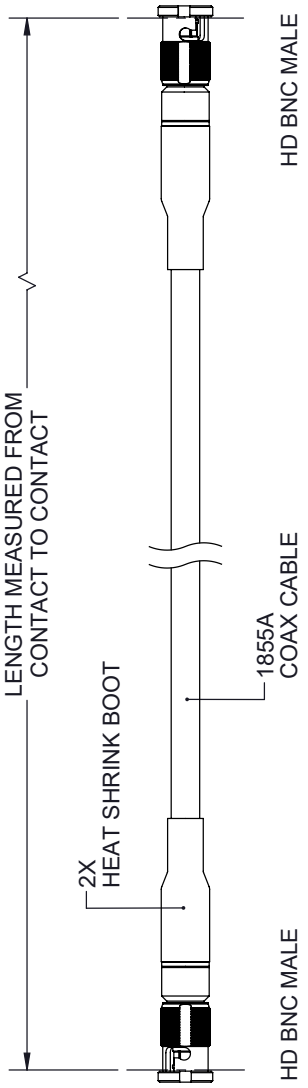
Example: LCCA30857/GY-12 = 12 inches long cable
LCCA30857/GY-100cm = 100 cm long cable

75 Ohm 6G SDI HD-BNC Male to HD-BNC Male Cable Assembly using 1855A-GY Coax, 6 FT from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within 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 impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.ontained within 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 impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

L-com CAD Drawing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	5/2/22	AGANWANI



LCCA30857/ZZ (ZZ = CABLE COLOR DESIGNATION)	COAX CABLE COLOR
LCCA30857/BK	BLACK
LCCA30857/BL	BLUE
LCCA30857/BR	BROWN
LCCA30857/GR	GREEN
LCCA30857/GY	GRAY
LCCA30857/OR	ORANGE
LCCA30857/RD	RED
LCCA30857/VL	VIOLET
LCCA30857/WH	WHITE
LCCA30857/YW	YELLOW

UNLESS OTHERWISE SPECIFIED,
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

X = ± .2 [5.08] | FRACTIONS ± 1/32
XX = ± .02 [.51] | ANGLES ± 1°
.XXX = ± .005 [.13]

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
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.

L-com™
an INFINITE brand
50 High Street, West Mill, 3rd Floor, Suite #30
North Andover, MA 01845 USA.
Phone: 1.800.341.5266 | 1.978.682.6936
Fax: 1.978.689.9484
Website: www.L-com.com
E-mail: CustomerService@L-com.com

THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	HBAKKE	LCCA30857/ZZ	A

SHEET 1 OF 1

SCALE N/A

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

T-Rev.D

LCCA30857/GY-FT6 REV 1 | © 2020 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.