75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable Assembly using 1855A-OR Coax, 1 FT

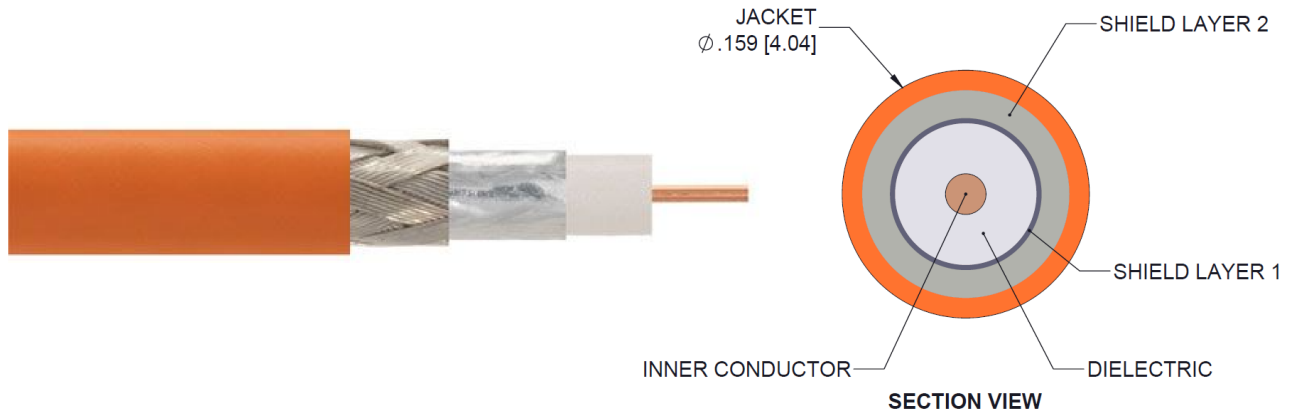## LCCA30858/OR-FT1

Configuration

- Connector 1: HD-BNC Male
- Connector 2: 1.0/2.3 Male
- Cable Type: Belden 1855A-OR

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

JACKET ⌀ .159 [4.04]
SHIELD LAYER 2
SHIELD LAYER 1
INNER CONDUCTOR
DIELECTRIC

SECTION VIEW

Description

L-com's LCCA30858/OR-FT1 is a 75 Ohm 6G SDI HD-BNC male to 1.0/2.3 male cable assembly using 1855A-OR coax, 1 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com HD-BNC to 1.0/2.3 cable assembly has a male to male gender configuration with 75 Ohm flexible 1855A-OR 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 LCCA30858/OR-FT1 L-com 75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable Assembly using 1855A-OR Coax, 1 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units

USA & Canada **+1(800) 341-5266** | International **+1(978) 682-6936** | l-com.com

75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable
Assembly using 1855A-OR Coax, 1 FT

LCCA30858/OR-FT1

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.)	0.26	0.28	0.31	0.38	0.49	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   12 in [304.8 mm]
Diameter   0.5 in [12.7 mm]

Weight   0.1 lbs [45.36 g]

Cable
Cable Type   Belden 1855A-OR
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, Orange
Jacket Diameter   0.159 in [4.04 mm]

75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable
Assembly using 1855A-OR Coax, 1 FT

LCCA30858/OR-FT1

Connectors

Description	Connector 1	Connector 2
Type	HD-BNC Male	1.0/2.3 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, Gold
Outer Conductor Plating Specification	100 µin minimum	3 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.

USA & Canada **+1(800) 341-5266** | International **+1(978) 682-6936** | **l-com.com**

75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable
Assembly using 1855A-OR Coax, 1 FT

LCCA30858/OR-FT1

How to Order

Part Number Configuration: **LCCA30858/OR**   **- xx**   **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number
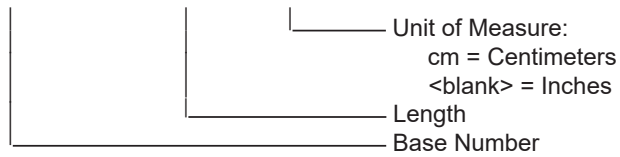
Example: LCCA30858/OR-12 = 12 inches long cable
LCCA30858/OR-100cm = 100 cm long cable

75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable Assembly using 1855A-OR Coax, 1 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.

75 Ohm 6G SDI HD-BNC Male to 1.0/2.3 Male Cable Assembly using 1855A-OR Coax, 1 FT

L-com CAD Drawing

REVISIONS

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

1.0/2.3 MALE

LENGTH MEASURED FROM CONTACT TO CONTACT

1855A COAX CABLE

2X HEAT SHRINK BOOT

HD BNC MALE

LCCA30858/ZZ (ZZ = CABLE COLOR DESIGNATION)	COAX CABLE COLOR
LCCA30858/BK	BLACK
LCCA30858/BL	BLUE
LCCA30858/BR	BROWN
LCCA30858/GR	GREEN
LCCA30858/GY	GRAY
LCCA30858/OR	ORANGE
LCCA30858/RD	RED
LCCA30858/VL	VIOLET
LCCA30858/WH	WHITE
LCCA30858/YW	YELLOW

THIRD-ANGLE PROJECTION

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

SHEET 1 OF 1

SCALE N/A

REV A

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

SIZE A	CAGE CODE 43321	DRAWN BY HBAKKE	ITEM NO. LCCA30858/ZZ

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

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

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.

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

USA & Canada **(800) 341-5266** | International **(978) 682-6936** | **l-com.com**