

## Coaxial RG178BU Flexible Bulk Cable, by the Foot



### RG178BU

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Features

- Rugged FEP Jacket
- Max operating temperature 200° C
- Min Bend radius of 0.4"
- PTFE Dielectric material
- Max operating Frequency of 3 GHz

#### Applications

- High temperature cable applications
- RF Test systems
- General Purpose RF Interconnect
- Laboratory applications

#### Description

RG178BU coax cable from L-com is only one of a large number of radio frequency coaxial cable types specifically stocked to be ready for quick shipment. L-com Microwave RG178BU coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This flexible 50 Ohm coax cable RG178BU is constructed with a 0.098 inch diameter and FEP jacket.

L-com Microwave RG178BU coax is constructed with PTFE dielectric and a maximum operating temperature of 200 degrees C. RG178BU coax cable specs for this wire properties can be found on its RF coax cable RG-316 datasheet PDF specifications above.

RG178BU cable is one of many RF, microwave wave parts in stock at L-com. This RG-316 coax cable is ready to buy. L-com also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF and microwave components.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Operating Voltage (AC)			1,000	Vrms
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]

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**Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Attenuation, Typ	13.81	27.8	44.41	78.4		dB/100ft
	45.31	91.21	145.7	257.22		dB/100m

**Mechanical Specifications**

Diameter	0.072 in [1.83 mm]
Weight	0.005 lbs/ft [0.01 Kg/m]
Min. Bend Radius (Repeated)	0.4 in [10.16 mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver 7 Strand(s)	0.012in [0.3mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.034in [0.86mm]
First Shield	Silver Plated Copper Braid	0.051 in [1.3 mm]
Jacket	FEP, Tan	0.072in [1.83mm]

**Environmental Specifications**

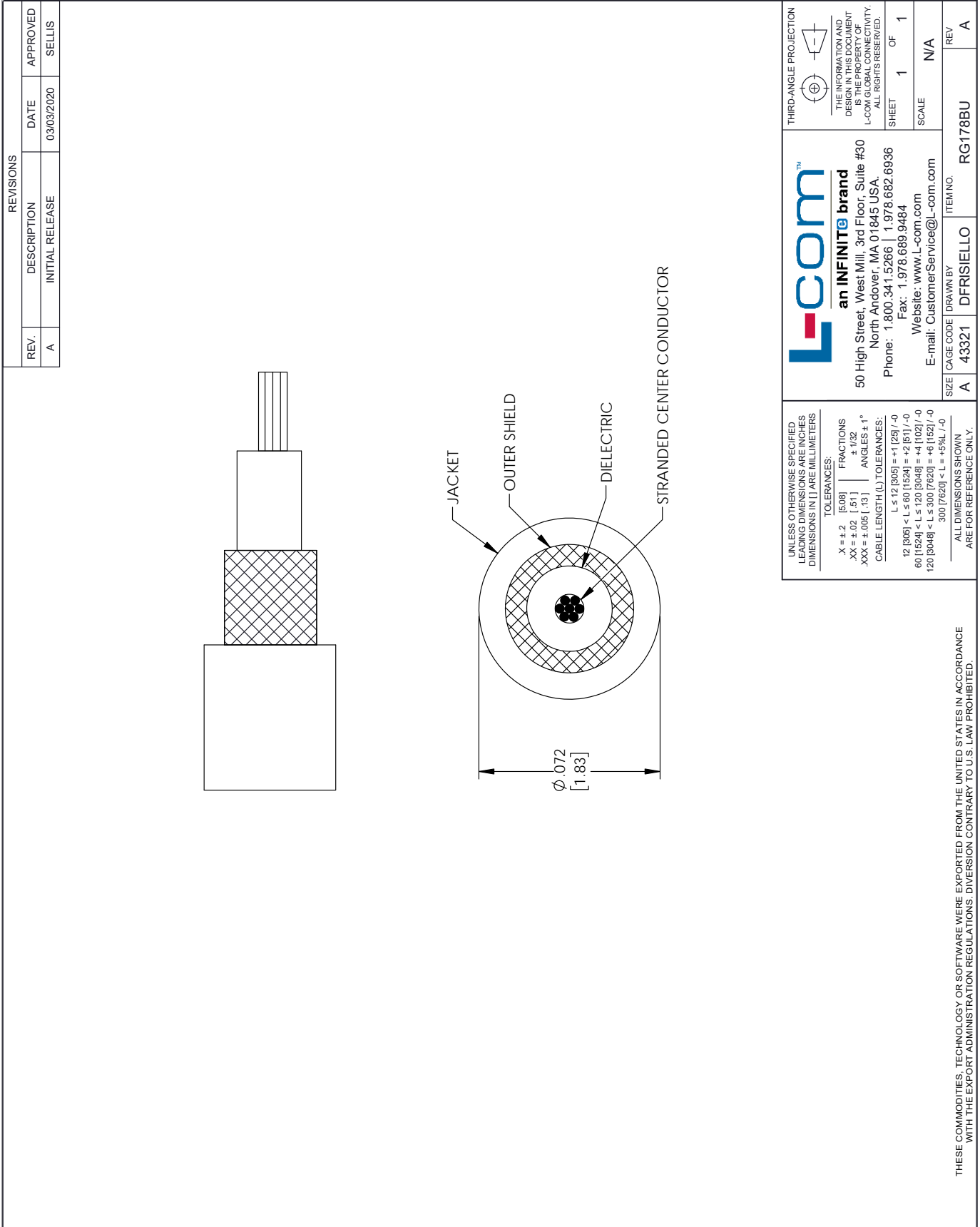
Temperature Operating Range	-55°C to +200°C
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Coaxial RG178BU Flexible Bulk Cable, by the Foot from L-com has same day shipment for domestic and International orders. 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 implement 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.



REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	03/03/2020
		APPROVED
		SELL'S

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

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

ITEM NO. RG178BU

DRAWN BY DFRISIELLO

CAGE CODE A 43321

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TOLERANCES:

X ± .2 [5.08] FRACTIONS  
XX ± .02 [51] +.132  
XXX ± .005 [13] 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.

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