

Low Loss 4.3-10 Male to SMA Male Weatherproof Cable Assembly with Silicone using LMR-240 Coax, 3 FT with Times Microwave Components

LCCA30258/WP-FT3

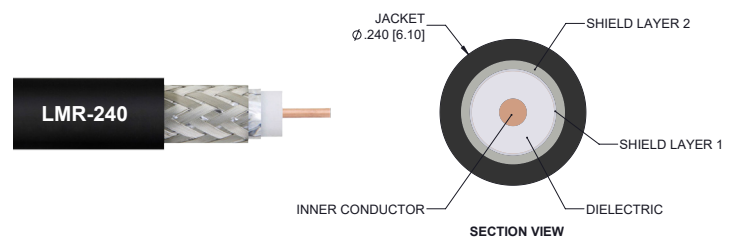


Configuration

- Connector 1: 4.3-10 Male
- Connector 2: SMA Male
- Cable Type: LMR-240
- Coax Flex Type: Flexible

Features

- Silicone Connector Boot
- IP68 Rated



Description

L-com's LCCA30258/WP-FT3 is a low loss 4.3-10 male to SMA male weatherproof cable assembly with silicone using LMR-240 coax, 3 FT with Times Microwave components and ships same-day. The LMR-240 coax of this 4.3-10 cable uses the PE (F) dielectric with a VoP of 84%, resulting in very low insertion loss compared to solid dielectrics. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com 4.3-10 to SMA cable assembly has a male to male gender configuration with flexible LMR-240 series coax and operates to 6 GHz. The double shield of this 4.3-10 cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB.

Custom versions of this 4.3-10 male to 4.3-10 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 LCCA30258/WP-FT3 L-com Low Loss 4.3-10 Male to SMA Male Weatherproof Cable Assembly with Silicone using LMR-240 Coax, 3 FT with Times Microwave Components data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
LCCA30258/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.039	0.055	0.079	0.129	0.204	dB/ft	
			0.13	0.19	0.26	0.43	0.67	dB/m	
LCCA30258/WP-FT2	24 In	Insertion Loss (Typ.)	0.23	0.29	0.36	0.52	0.76	dB	0.688
LCCA30258/WP-FT3	36 In	Insertion Loss (Typ.)	0.27	0.34	0.44	0.65	0.96	dB	0.721
LCCA30258/WP-FT4	48 In	Insertion Loss (Typ.)	0.31	0.2	0.52	0.78	1.17	dB	0.754
LCCA30258/WP-FT5	60 In	Insertion Loss (Typ.)	0.35	0.45	0.6	0.91	1.37	dB	0.787

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB
 Loss due to Connector 2: $0.1 \times \sqrt{\text{F}} \text{ dB}$
 Base Weight: 0.655 pounds
 Additional Weight per Inch: 0.00275 pounds

Mechanical Specifications

Cable Assembly

Length 36 in [914.4 mm]
 Width/Diameter 0.5 in [12.7 mm]
 Weight 0.721 lbs [327.04 g]

Cable

Cable Type LMR-240
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper
 Dielectric Type PE (F)
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper Braid
 Jacket Material PE
 Jacket Diameter 0.24 in [6.1 mm]
 One Time Minimum Bend Radius 0.75 in [19.05 mm]
 Repeated Minimum Bend Radius 2.5 in [63.5 mm]
 Bending Moment 0.25 lbs-ft [0.34 N-m]
 Flat Plate Crush 20 lbs/in [0.36 Kg/mm]
 Tensile Strength 80 lbs [36.29 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Male	SMA Male
Option		Weatherproof Boot
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Silver	Beryllium Copper, Gold
Contact Plating Specification	200 µin minimum	ASTM B488
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Passivated Stainless Steel, Gold
Body Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel, Gold
Body Plating Specification	80 µin minimum	SAE-AMS-2700
Coupling Nut Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel
Coupling Nut Plating Specification	80 µin minimum	SAE-AMS-2700
Boot Material	Silicone	Silicone

Environmental Specifications

Ingress Protection (IP) Rating IP68

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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Typical Performance Data

How to Order

Part Number Configuration:

LCCA30258/WP

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: LCCA30258/WP-12 = 12 inches long cable
LCCA30258/WP-100cm = 100 cm long cable

Low Loss 4.3-10 Male to SMA Male Weatherproof Cable Assembly with Silicone using LMR-240 Coax, 3 FT with Times Microwave Components 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.

URL: <https://www.l-com.com/4.3-10-male-sma-male-cable-assembly-lcca30258-wp-ft3-p.aspx>

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.

LCCA30258/WP-FT3 CAD Drawing

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