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FMCA100265

Configuration

Connector 1: TNC Male Right AngleConnector 2: SMB Plug Right Angle

Cable Type: LMR-195-UFCoax Flex Type: Flexible

Features

- · Max Frequency 3 MHz
- Shielding Effectivity > 90 dB
- 74% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

· General Purpose

· Laboratory Use

Description

The RA TNC male to RA SMB plug cable using LMR-195-UF coax, part number FMCA100265, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to SMB cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-195-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100265 TNC male to SMB plug cable assembly operates to 3 MHz. The right angle TNC and right angle SMB interfaces on the LMR-195-UF cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.3:1	
Velocity of Propagation		74		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			335	Vrms



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Longth	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Nulliber	Length	Frequency	100	250	500	1000	3000	MHz	weight (ms)
FMCA100265	Custom Lengths	Insertion Loss (Typ.)	0.042	0.068	0.097	0.132	0.246	dB/ft	
TWEAT00203	Available	1113C1 (1011 2033 (1 yp.)	0.14	0.23	0.32	0.44	0.81	dB/m	
FMCA100265-12	12 Inch	Insertion Loss (Typ.)	0.45	0.47	0.5	0.54	0.65	dB	0.099
FMCA100265-24	24 Inch	Insertion Loss (Typ.)	0.49	0.54	0.6	0.67	0.9	dB	0.12
FMCA100265-36	36 Inch	Insertion Loss (Typ.)	0.53	0.61	0.7	0.8	1.14	dB	0.141
FMCA100265-60	60 Inch	Insertion Loss (Typ.)	0.61	0.74	0.89	1.06	1.63	dB	0.183
FMCA100265-300	300 Inch	Insertion Loss (Typ.)	1.45	2.1	2.83	3.7	6.55	dB	0.603

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: 0.2 dB
Loss due to Connector 2: 0.2 dB
Base Weight: 0.099 pounds
Additional Weight per Inch: 0.00175 pounds

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.099 lbs [44.91 g]

Cable

Cable Type LMR-195-UF Impedance 50 Ohms Inner Conductor Type Stranded

Inner Conductor Material and Plating Copper
Dielectric Type Foam PE

Number of Shields 2
Shield Layer 1 Alumin

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper
Jacket Material TPE, Black

Jacket Diameter0.195 in [4.95 mm]One Time Minimum Bend Radius0.5 in [12.7 mm]Repeated Minimum Bend Radius2 in [50.8 mm]Bending Moment0.1 lbs-ft [0.14 N-m]

Bending Moment 0.1 lbs-ft [0.14 N-m]
Flat Plate Crush 10 lbs/in [0.18 Kg/mm]
Tensile Strength 40 lbs [18.14 Kg]



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Connectors

Description	Connector 1	Connector 2
Туре	TNC Male Right Angle	SMB Plug Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 μin minimum	30 μin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 μin minimum	

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

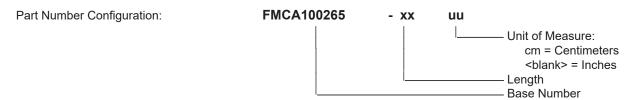




FMCA100265

Typical Performance Data

How to Order



Example: FMCA100265-12 = 12 inches long cable

FMCA100265-100cm = 100 cm long cable

Low Loss RA TNC Male to RA SMB Plug Cable LMR-195-UF Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low Loss RA TNC Male to RA SMB Plug Cable LMR-195-UF Coax FMCA100265

URL: https://www.fairviewmicrowave.com/low-loss-ra-tnc-male-to-ra-smb-plug-cable-lmr-195-uf-coax-fmca100265-p. aspx

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