

Low Loss SMB Jack Bulkhead to TNC Male Cable LMR-195-UF Coax



FMCA100280

Configuration

- Connector 1: SMB Jack Bulkhead
- Connector 2: TNC Male
- Cable Type: LMR-195-UF
- Coax Flex Type: Flexible

Features

- Shielding Effectivity > 90 dB
- 74% Phase Velocity
- Double Shielded
- TPE Jacket

Applications

- General Purpose
- Laboratory Use

Description

The SMB jack bulkhead to TNC male cable using LMR-195-UF coax, part number FMCA100280, from Fairview Microwave is in-stock and ships same day. This Fairview SMB to TNC cable assembly has a jack to male 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. Our RF cable assembly with SMB bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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
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]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Low Loss SMB Jack Bulkhead to TNC
Male Cable LMR-195-UF Coax



FMCA100280

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
FMCA100279	Custom Lengths Available	Insertion Loss (Typ.)	0.042	0.068	0.097	0.132	0.285	dB/ft	
			0.14	0.23	0.32	0.44	0.94	dB/m	
FMCA100279-12	12 Inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.34	0.49	dB	0.06
FMCA100279-24	24 Inch	Insertion Loss (Typ.)	0.29	0.34	0.4	0.47	0.77	dB	0.081
FMCA100279-36	36 Inch	Insertion Loss (Typ.)	0.33	0.41	0.5	0.6	1.06	dB	0.102
FMCA100279-60	60 Inch	Insertion Loss (Typ.)	0.41	0.54	0.69	0.86	1.63	dB	0.144
FMCA100279-300	300 Inch	Insertion Loss (Typ.)	1.25	1.9	2.63	3.5	7.33	dB	0.564

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 dB
 Base Weight: 0.06 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 0.068 lbs [30.84 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 Aluminum Tape
 Shield Layer 2 Tinned Copper
 Jacket Material TPE, Black
 Jacket Diameter 0.195 in [4.95 mm]
 One Time Minimum Bend Radius 0.5 in [12.7 mm]
 Repeated Minimum Bend Radius 2 in [50.8 mm]
 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]

Low Loss SMB Jack Bulkhead to TNC
Male Cable LMR-195-UF Coax



FMCA100280

Connectors

Description	Connector 1	Connector 2
Type	SMB Jack Bulkhead	TNC Male
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Silver
Body Plating Specification	QQ-N-290	
Coupling Nut Material and Plating		Brass, Silver

Environmental Specifications

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

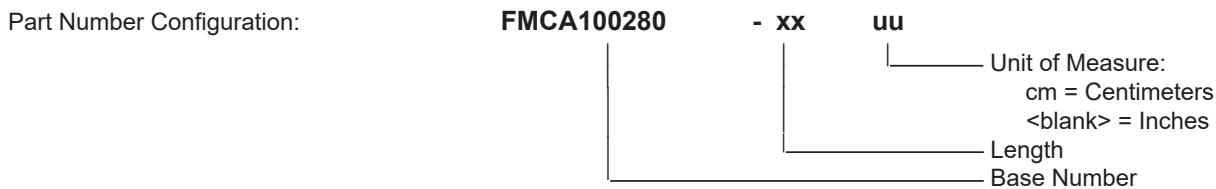
Low Loss SMB Jack Bulkhead to TNC
Male Cable LMR-195-UF Coax



FMCA100280

Typical Performance Data

How to Order



Example: FMCA100280-12 = 12 inches long cable
FMCA100280-100cm = 100 cm long cable

Low Loss SMB Jack Bulkhead to TNC Male 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 SMB Jack Bulkhead to TNC Male Cable LMR-195-UF Coax FMCA100280](#)

URL: <https://www.fairviewmicrowave.com/low-loss-smb-jack-bulkhead-to-tnc-male-cable-lmr-195-uf-coax-fm-ca100280-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMCA100280 CAD Drawing

Low Loss SMB Jack Bulkhead to TNC Male Cable LMR-195-UF Coax

