

N Male Right Angle to SMA Male Low Loss Cable Using TCOM-195 Coax With Times Microwave Components



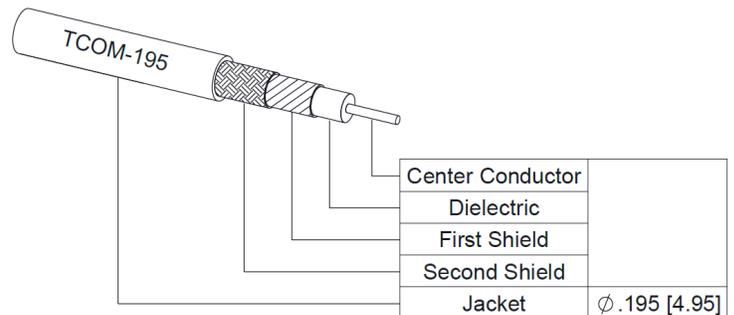
PE3C10381

Configuration

- Connector 1: N Male Right Angle
- Connector 2: SMA Male
- Cable Type: TCOM-195
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- 80% Phase Velocity
- Triple Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10381 type N male right angle to SMA male cable using TCOM-195 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to SMA cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-195 coax. The PE3C10381 type N male to SMA male cable assembly operates to 6 GHz. The right angle type N interface on the TCOM-195 cable allows for easier connections in tight spaces. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 available RF cable assembly value added services 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
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		7.16 [23.49]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.42 [11.22]		Ohms/1000ft [Ohms/Km]
Jacket Spark			3,000	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	
PE3C10381	Custom Lengths Available	Insertion Loss (Typ.)	0.036	0.073	0.106	0.172	0.271	dB/ft	
			0.12	0.24	0.35	0.57	0.89	dB/m	
PE3C10381-12	12 inch	Insertion Loss (Typ.)	0.34	0.38	0.41	0.48	0.58	dB	0.147
PE3C10381-24	24 inch	Insertion Loss (Typ.)	0.38	0.45	0.52	0.65	0.85	dB	0.182
PE3C10381-36	36 inch	Insertion Loss (Typ.)	0.41	0.52	0.62	0.82	1.12	dB	0.217
PE3C10381-48	48 inch	Insertion Loss (Typ.)	0.45	0.6	0.73	0.99	1.39	dB	0.252
PE3C10381-60	60 inch	Insertion Loss (Typ.)	0.48	0.67	0.83	1.16	1.66	dB	0.287

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:	0.1 dB
Base Weight:	0.147 pounds
Additional Weight per Inch:	0.00291 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.147 lbs [66.68 g]

Cable

Cable Type	TCOM-195
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	3
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, 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	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μ in. minimum	ASTM B488
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel
Body Plating Specification	80 μ in. minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel
Coupling Nut Plating Specification	80 μ in. minimum	
Hex Size	30	5/16 Inch

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3C10381

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10381

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10381-12 = 12 inches long cable
PE3C10381-100cm = 100 cm long cable

N Male Right Angle to SMA Male Low Loss Cable Using TCOM-195 Coax With Times Microwave Components from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to SMA Male Low Loss Cable Using TCOM-195 Coax With Times Microwave Components PE3C10381](https://www.pasternack.com/n-male-right-angle-to-sma-male-low-loss-cable-using-tcom-195-pe3c10381-p.aspx)

URL: <https://www.pasternack.com/n-male-right-angle-to-sma-male-low-loss-cable-using-tcom-195-pe3c10381-p.aspx>

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PE3C10381 CAD Drawing

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