



SMA Female to Reverse Polarity TNC Jack Bulkhead Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3C8105

Configuration

- Connector 1: SMA Female
- Connector 2: TNC Jack Reverse Polarity Bulkhead
- Cable Type: RG178

Features

- Max Frequency 2 GHz
- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C8105 SMA female to reverse polarity TNC jack bulkhead cable using RG178 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 SMA to reverse polarity TNC cable assembly has a female to jack gender configuration with 50 ohm flexible RG178 coax. The PE3C8105 SMA female to reverse polarity TNC jack cable assembly operates to 2 GHz. Our RF cable assembly with TNC 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.

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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to Reverse Polarity TNC Jack Bulkhead Cable Using RG178 Coax PE3C8105](#)



SMA Female to Reverse Polarity TNC Jack
Bulkhead Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3C8105

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	2		GHz
Insertion Loss (Typ.)	0.138	0.208	0.305	0.614		dB/ft
	0.45	0.68	1	2.01		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.074 lbs [33.57 g]

Cable

Cable Type RG178
Impedance 50 Ohms
Inner Conductor Type Stranded
Inner Conductor Material and Plating Copper Clad Steel, Silver
Dielectric Type PTFE
Number of Shields 1
Shield Layer 1 Silver Plated Copper Braid
Jacket Material FEP, Tan
Jacket Diameter 0.072 in [1.83 mm]

Repeated Minimum Bend Radius 0.4 in [10.16 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to Reverse Polarity TNC Jack Bulkhead Cable Using RG178 Coax PE3C8105](#)



SMA Female to Reverse Polarity TNC Jack Bulkhead Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3C8105

Connectors

Description	Connector 1	Connector 2
Type	SMA Female	TNC Jack Reverse Polarity Bulkhead
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	30μ in. minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	100μ in. minimum

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to Reverse Polarity TNC Jack Bulkhead Cable Using RG178 Coax PE3C8105](#)



SMA Female to Reverse Polarity TNC Jack Bulkhead Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3C8105

How to Order

Part Number Configuration:

PE3C8105

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C8105-12 = 12 inches long cable
PE3C8105-100cm = 100 cm long cable

SMA Female to Reverse Polarity TNC Jack Bulkhead Cable Using RG178 Coax 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: [SMA Female to Reverse Polarity TNC Jack Bulkhead Cable Using RG178 Coax PE3C8105](#)

URL: <https://www.pasternack.com/sma-female-to-reverse-polarity-tnc-jack-bulkhead-cable-using-rg178-pe3c8105-p.aspx>

The information contained in 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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3C8105 CAD Drawing

SMA Female to Reverse Polarity TNC Jack Bulkhead Cable Using RG178 Coax

