

SMB Jack Bulkhead Mount to SMB Jack Bulkhead Mount using RG316 Coax Cable



PE3C9850

Configuration

- Connector 1: SMB Jack Bulkhead
- Connector 2: SMB Jack Bulkhead
- Cable Type: RG316

Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- VSWR of 1.4:1



Applications

- General Purpose
- Laboratory Use
- Military
- Aerospace
- Wireless Communications
- General Purpose Test

Description

Pasternack's PE3C9850 SMB jack bulkhead to SMB jack bulkhead cable using RG316 is part of our full line of RF components available for same-day shipping. This Pasternack SMB to SMB cable assembly has a jack to jack gender configuration with 50 ohm RG316. The PE3C9850 SMB jack to SMB jack cable assembly operates to 3 GHz. 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.

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 | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69 | | % |
| 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 | 1 | 3 | GHz |
| Insertion Loss (Typ.) | 0.11 | 0.16 | 0.238 | 0.38 | 0.58 | dB/ft |
| | 0.36 | 0.52 | 0.78 | 1.25 | 1.9 | dB/m |

SMB Jack Bulkhead Mount to SMB Jack Bulkhead Mount using RG316 Coax Cable



PE3C9850

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.0865 lbs [39.24 g] |

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | RG316 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|-------------------------------|-------------------------------|
| Type | SMB Jack Bulkhead | SMB Jack Bulkhead |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Bronze, Gold over Copper | Bronze, Gold over Copper |
| Body Material and Plating | Bronze, Copper-Tin-Zinc Alloy | Bronze, Copper-Tin-Zinc Alloy |

Environmental Specifications

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

Plotted and Other Data

Notes:

Values at 25°C, sea level.

SMB Jack Bulkhead Mount to SMB Jack Bulkhead Mount using RG316 Coax Cable



PE3C9850

Typical Performance Data

How to Order

Part Number Configuration:

PE3C9850

- xx

uu

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

Example: PE3C9850-12 = 12 inches long cable
PE3C9850-100cm = 100 cm long cable

SMB Jack Bulkhead Mount to SMB Jack Bulkhead Mount using RG316 Coax Cable 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: [SMB Jack Bulkhead Mount to SMB Jack Bulkhead Mount using RG316 Coax Cable PE3C9850](#)

URL: <https://www.pasternack.com/smb-jack-bulkhead-to-smb-jack-bulkhead-non-magnetic-cable-using-rg316-pe3c9850-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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C9850 CAD Drawing

SMB Jack Bulkhead Mount to SMB Jack Bulkhead Mount using RG316 Coax Cable

