

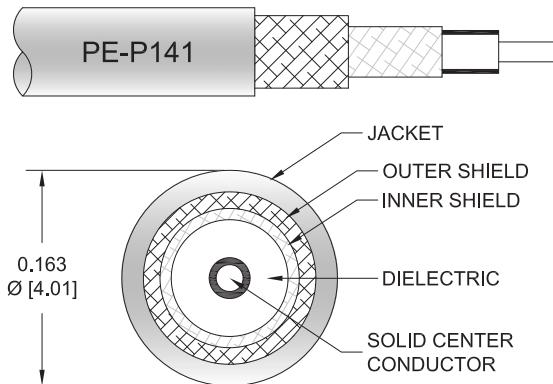
BMB Size 8 D38999 Contact Socket to BMB Size 8 D38999 Contact Socket Cable Using PE-P141 Coax with HeatShrink, LF Solder



PE3M0395

Configuration

- Connector 1: Push-on BMB Socket
- Connector 2: Push-on BMB Socket
- Cable Type: PE-P141
- Coax Flex Type: Flexible



Features

- Max Frequency: 18 GHz
- Can be installed in all D38999 size 8 inserts
- Lot traceability
- High speed RF cable assembly

Applications

- Military and Aerospace
- Avionics
- Industrial Automation

Description

The PE3M0395 from Pasternack is a D38999 cable assembly that is built with a size 8 BMB Socket contact on one end and a BMB Socket connector on the other. Pasternack MIL-DTL-38999 (also known as D38999 or 38999) coaxial cable assembly products are used in applications requiring high quality such as laboratory RF test and measurement, rugged and designed for defense/military, production environments, general use, etc. This BMB to BMB cable assembly is a part of one of the largest selections of same-day ship coaxial cables for RF, microwave, and millimeter wave interconnect solutions. This high frequency D38999 cable assembly operates at a maximum frequency of 18 GHz.

The PE3M0395 RF cable has a FEP jacket of 0.163-inch diameter. This radio frequency cable assembly can withstand temperatures ranging from -65 to 165 degrees C. Our BMB Socket to BMB Socket cable has a maximum VSWR of 1.4:1. This flexible RF cable assembly with a 0.5-inch diameter has copper clad steel as the cable's inner conducting material and PTFE dielectric type. The PE3M0395 in-series RF cable has 0.8 inches of repeated minimum bend radius along with 110 dB of minimum RF shielding.

BMB Socket to BMB Socket cable assembly is built with PE-P141, which is a flexible coax type. The Pasternack PE3M0395 flexible cable assembly has a 50 Ohm impedance and is double shielded. Additional dimensions, specifications, and CAD drawings for this BMB to BMB RF cables are available on our downloadable PDF datasheet.

BMB Socket to BMB Socket cable assembly is just one of more than one million in-stock RF products available. Pasternack is where to buy high quality custom RF cable assembly products for rugged and MIL-STD designed military/defense, aerospace, outdoor and harsh environment, microwave and millimeter wave radio transmitter receiver, component inter-connection and more for RF test & measurement labs, telecom, phase stable, phase and delay matching, and other radio frequency applications can be manufactured. Variations of BMB cable assemblies can also be built and will ship on the same day as well, search this website or contact us for assistance. For further information on similar products, our expert technical support and trained sales team can get you the ideal BMB to BMB RF cable assembly as per your requirements.

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Referenced Specifications

| | |
|----------------|---|
| IPC J-STD-001 | Requirements for Soldered Electrical and Electronic Assemblies |
| IPC J-STD-006 | Requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for Electronic Soldering Applications |
| IPC/WHMA-A-620 | Requirements and Acceptance for Cable and Wire Harness Assemblies |
| MIL-DTL-17 | Cables, Radio Frequency, Flexible and Semirigid, General Specification for |
| MIL-PRF-39012 | Connectors, Coaxial, Radio Frequency, General Specification for |
| MIL-STD-348 | Radio Frequency Connector Interfaces for MIL-DTL-3643, MIL-DTL-3650, MIL-DTL-3655, MIL-DTL-25516, MIL-PRF-31031, MIL-PRF-39012, MIL-PRF-49142, MIL-PRF-55339, MIL-DTL-83517 |
| SAE AS22520 | Crimping Tools, Wire Termination, General Specification For |
| SAE AS23053 | Insulation Sleeving, Electrical, Heat Shrinkable, General Specifications For |
| SAE AS5942 | Marking of Electrical Insulating Materials |
| IPC J-STD-001 | Requirements for Soldered Electrical and Electronic Assemblies |

Material Specifications

| Component | Specification |
|---------------|---|
| Cable | PE-P141 in accordance with PE-P141 datasheet |
| Connector 1 | in accordance with MIL-DTL-38999 |
| Connector 2 | in accordance with MIL-DTL-38999 |
| Heat Shrink 1 | M23053/5-106-0 in accordance with SAE AS23053 |
| Heat Shrink 2 | M23053/5-106-0 in accordance with SAE AS23053 |
| Solder | SAC305 in accordance with J-STD-006 |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| RF Shielding | 110 | | | dB |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|-------------|--------------------------|-----------------------|------|------|------|------|-------|-------|--------------|
| | | Frequency | 1000 | 2000 | 4500 | 9000 | 18000 | MHz | |
| PE3M0395 | Custom Lengths Available | Insertion Loss (Typ.) | 0.11 | 0.17 | 0.25 | 0.41 | 0.58 | dB/ft | |
| | | | 0.37 | 0.55 | 0.83 | 1.35 | 1.91 | dB/m | |
| PE3M0395-6 | 6 inch | Insertion Loss (Typ.) | 0.26 | 0.29 | 0.33 | 0.41 | 0.49 | dB | 0.0345 |
| PE3M0395-12 | 12 inch | Insertion Loss (Typ.) | 0.32 | 0.37 | 0.46 | 0.61 | 0.78 | dB | 0.049 |
| PE3M0395-24 | 24 inch | Insertion Loss (Typ.) | 0.43 | 0.53 | 0.71 | 1.02 | 1.36 | dB | 0.078 |
| PE3M0395-36 | 36 inch | Insertion Loss (Typ.) | 0.54 | 0.7 | 0.96 | 1.43 | 1.94 | dB | 0.107 |
| PE3M0395-48 | 48 inch | Insertion Loss (Typ.) | 0.65 | 0.86 | 1.21 | 1.84 | 2.52 | dB | 0.136 |
| PE3M0395-60 | 60 inch | Insertion Loss (Typ.) | 0.76 | 1.03 | 1.46 | 2.25 | 3.1 | dB | 0.165 |

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: 0.049 pounds

Additional Weight per Foot: 0.029 pounds

Electrical Specification Notes:

Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

| Description | Minimum | Typical | Maximum | Units |
|------------------------------|---------|---------------|---------|---------|
| Length* | | | 0 [0] | in [mm] |
| Cable Outer Diameter | | 0.163 | | in |
| Weight | | 0.049 [22.23] | | lbs [g] |
| Repeated Minimum Bend Radius | 0.8 | | | in |

Cable Characteristics

| Description | Specification |
|--------------------------------------|----------------------------|
| Cable Type | PE-P141 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Tape |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | FEP |

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Connector Characteristics

| Description | Connector 1 | Connector 2 |
|--------------------------------------|-----------------------------|-----------------------------|
| Type | BMB Socket | BMB Socket |
| Specification | MIL-DTL-38999 | MIL-DTL-38999 |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Connection Method | Push-on | Push-on |
| Contact Size | 8 | 8 |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | Stainless Steel, Passivated | Stainless Steel, Passivated |
| Body Material and Plating | Stainless Steel, Passivated | Stainless Steel, Passivated |

Mechanical Specification Notes:

Environmental Specifications

| Description | Specification |
|-----------------------------|-------------------|
| Temperature Operating Range | -65 to +165 deg C |

Compliance Certifications

(see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

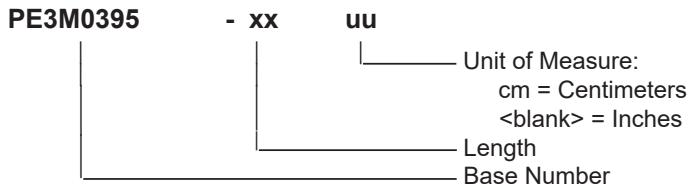
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How to Order

Part Number Configuration:



Example: PE3M0395-12 = 12 inches long cable
PE3M0395-100cm = 100 cm long cable

Cable Assembly Length Tolerances:

| Imperial English | | Metric | |
|---------------------|-----------------|---------------------|------------------|
| "L" ≤ 1 ft | +0.5 in / -0 in | "L" ≤ 0.3 m | +12.5 mm / -0 mm |
| 1 ft < "L" ≤ 5 ft | +1 in / -0 in | 0.3 m < "L" ≤ 1.5 m | +25 mm / -0 mm |
| 5 ft < "L" ≤ 10 ft | +2 in / -0 in | 1.5 m < "L" ≤ 3 m | +50 mm / -0 mm |
| 10 ft < "L" ≤ 25 ft | +3 in / -0 in | 3 m < "L" ≤ 7.5 m | +75 mm / -0 mm |
| 25 ft < "L" | +2%"L" / -0%"L" | 7.5 m < "L" | +2%"L" / -0%"L" |

* Cable Length = "L"

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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMB Size 8 D38999 Contact Socket to BMB Size 8 D38999 Contact Socket Cable Using PE-P141 Coax with HeatShrink, LF Solder PE3M0395](#)

URL: <https://www.pasternack.com/bmb-8-contact-socket-to-bmb-8-contact-socket-cable-using-pe-p141-coax-with-heatshrink-lf-solder-pe3m0395-p.aspx>

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PE3M0395 CAD Drawing

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