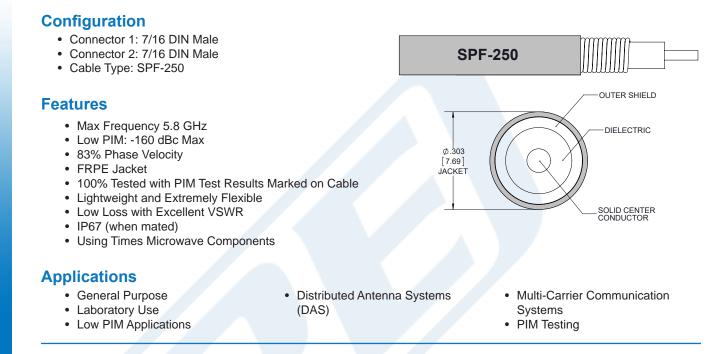




PE3C6356

Fire Rated 7/16 DIN Male to 7/16 DIN Male Low PIM Cable Using SPF-250 Coax Using Times Microwave Parts

## **RF Cable Assemblies Technical Data Sheet**



#### Description

Pasternack's PE3C6356 7/16 DIN male to 7/16 DIN male cable using SPF-250 coax is part of our full line of RF components available for same-day shipping. Pasternack's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. This Pasternack 7/16 DIN to 7/16 DIN cable assembly has a male to male gender configuration with 50 ohm corrugated SPF-250 coax. The PE3C6356 7/16 DIN male to 7/16 DIN male to 7/16 DIN male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

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: Fire Rated 7/16 DIN Male to 7/16 DIN Male Low PIM Cable Using SPF-250 Coax Using Times Microwave Parts PE3C6356

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

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#### **Electrical Specifications**

| Minimum | Typical      | Maximum                        | Units  |
|---------|--------------|--------------------------------|--|
| DC      |              | 5.8                            | GHz  |
|         |              | 1.4:1                          |  |
|         | 83           |                                | %  |
|         | -165         | -160                           | dBc  |
|         | 24 [78.74]   |                                | pF/ft [pF/m]                                     |
|         | 0.054 [0.18] |                                | uH/ft [uH/m]                                     |
|         |              | DC<br>83<br>-165<br>24 [78.74] | DC 5.8<br>1.4:1<br>83<br>-165 -160<br>24 [78.74] |

#### **Specifications by Frequency**

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 0.45  | 0.7   | 1     | 2.5   | 5.8   | GHz   |
| Insertion Loss (Max.) | 0.041 | 0.051 | 0.062 | 0.103 | 0.167 | dB/ft |
|                       | 0.13  | 0.17  | 0.2   | 0.34  | 0.55  | dB/m  |

**Electrical Specification Notes:** 

PIM test results vary between cables

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1\*SQRT(FGHz) dB per connector.

#### **Mechanical Specifications**

#### Cable Assembly Diameter

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Outer Conductor Material and Plating Jacket Material Jacket Diameter 1.14 in [28.96 mm]

SPF-250 50 Ohms Solid Copper Clad Aluminum Foam PE 1 Helically Corrugated Copper Tube Copper FRPE, Black 0.303 in [7.7 mm]

One Time Minimum Bend Radius

1.25 in [31.75 mm]

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| Bending Moment                     | 0.5 lbs-ft [0.68 N-m] |                       |  |  |
|------------------------------------|-----------------------|-----------------------|--|--|
| Connectors                         |                       |                       |  |  |
| Description                        | Connector 1           | Connector 2           |  |  |
| Туре                               | 7/16 DIN Male         | 7/16 DIN Male         |  |  |
| Impedance                          | 50 Ohms               | 50 Ohms               |  |  |
| Contact Material and Plating       | Brass, Silver         | Brass, Silver         |  |  |
| Contact Plating Specification      | 200 µin               | 200 µin               |  |  |
| Dielectric Type                    | PTFE                  | PTFE                  |  |  |
| Body Material and Plating          | Brass, Tri-Metal      | Brass, Tri-Metal      |  |  |
| Body Plating Specification         | 80 µin                | 80 µin                |  |  |
| Coupling Nut Material and Plating  | Brass, Nickel         | Brass, Nickel         |  |  |
| Coupling Nut Plating Specification | 80 µin                | 80 µin                |  |  |
| Torque                             | 22.127 ft-lbs [30 Nm] | 22.127 ft-lbs [30 Nm] |  |  |

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm$  3/8", whichever is greater.

### **Environmental Specifications**

**Temperature** Operating Range Storage Range

-55 to +200 deg C -55 to +200 deg C

Environmental Specification Notes: CMR (Riser) Fire Rated

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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## **RF Cable Assemblies Technical Data Sheet**



| Typical Performance Data   |
|--|
| PIM LEVEL<br>Test Result> dBc  |
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Times

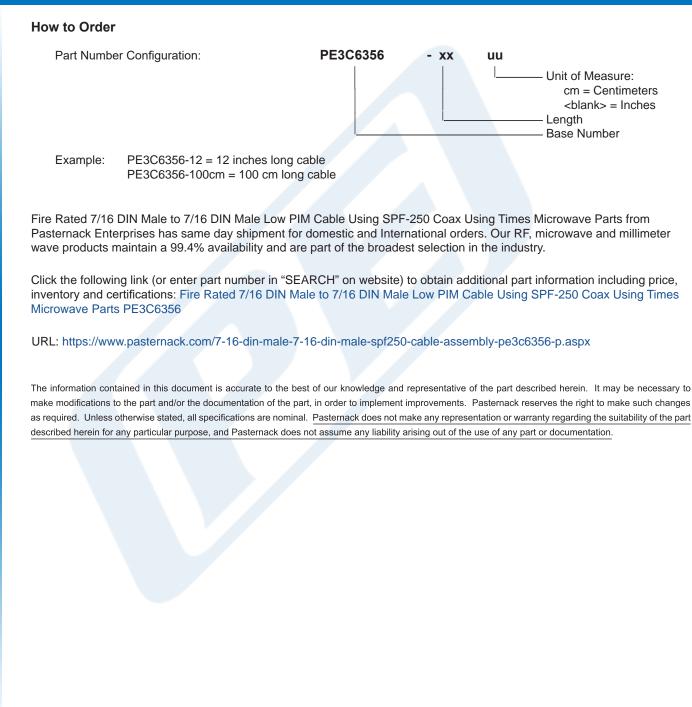




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PE3C6356 CAD Drawing Fire Rated 7/16 DIN Male to 7/16 DIN Male Low PIM Cable

Using SPF-250 Coax Using Times Microwave Parts

