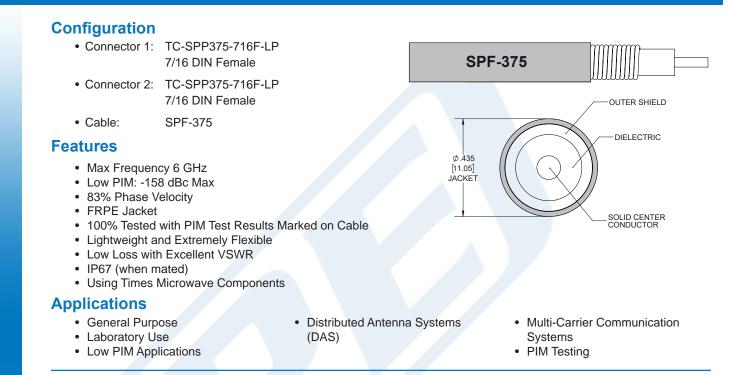




PE3C6510-12

RF Cable Assemblies Technical Data Sheet



Description

Pasternack's PE3C6510-127/16 DIN female to 7/16 DIN female 12 inch cable using SPF-375 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 female to female gender configuration with 50 ohm corrugated SPF-375 coax. The PE3C6510-127/16 DIN female to 7/16 DIN female cable assembly operates to 6 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -158 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 Female to 7/16 DIN Female Low PIM Cable 12 Inch Length Using SPF-375 Coax Using Times Microwave Parts PE3C6510-12



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation			-158	
Capacitance		24 [78.74]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	6		GHz
Insertion Loss (Max.)	0.17	0.24	0.35	0.61		dB

Electrical Specification Notes:

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1*SQRT(FGHz) db per connector.

Mechanical Specifications

Cable Assembly

Description	Minimum	Typical	Maximum	Units
Length		12.0 [304.8]		in [mm]
Jacket Diameter		0.435 [11.05]		in [mm]
One Time Minimum Bend Radius	1.75			in

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Cable Characteristics

Description	Specification	
Cable Type	SPF-375	
Impedance	50 Ohms	
Inner Conductor Type	Solid	
Inner Conductor Material and Plating	Copper Clad Aluminum	
Dielectric Type	Foam PE	
Number of Shields	1	
Shield Layer 1	Helically Corrugated Copper Tube	
Outer Conductor Material and Plating	Copper	
Jacket Material	FRPE, Black	

Connector Characteristics

Description	Connector 1	Connector 2 7/16 DIN Female	
Туре	7/16 DIN Female		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, 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	

Mechanical Specification Notes:

Environmental Specifications

Temperature Operating Range -40	o +85 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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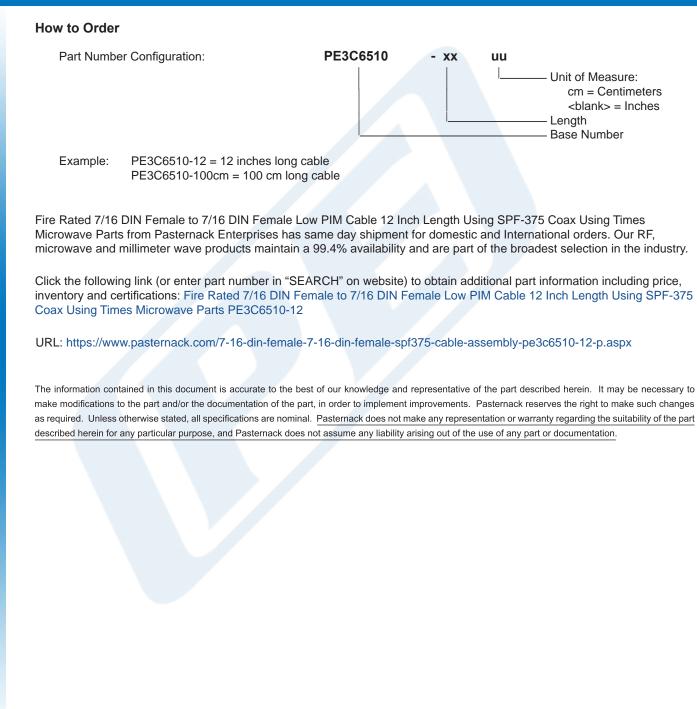
Typical Performance Data
PIM LEVEL <test result=""> dBc</test>
PIM LEVEL <test result=""> dBc</test>
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PE3C6510-12 CAD Drawing Fire Rated 7/16 DIN Female to 7/16 DIN Female Low PIM Cable 12 Inch

Length Using SPF-375 Coax Using Times Microwave Parts

