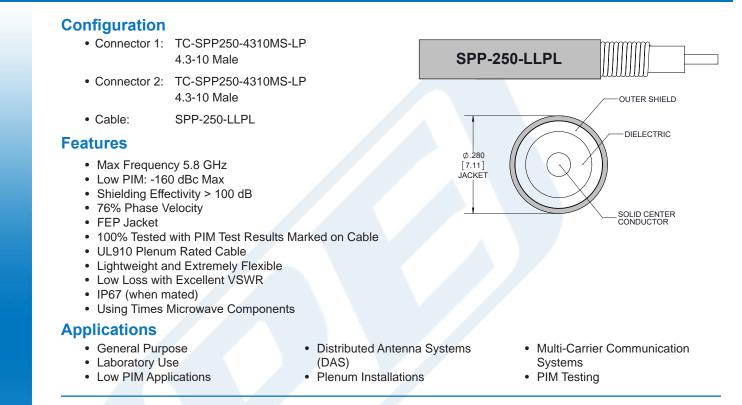


Plenum Snap-On 4.3-10 Male to Snap-On 4.3-10 Male Low PIM Cable 50 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts



PE3C6178-50CM

RF Cable Assemblies Technical Data Sheet



Description

Pasternack's PE3C6178-50CM 4.3-10 male snap-on to 4.3-10 male snap-on 50 cm cable using SPP-250-LLPL 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 4.3-10 to 4.3-10 cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6178-50CM 4.3-10 male to 4.3-10 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: Plenum Snap-On 4.3-10 Male to Snap-On 4.3-10 Male Low PIM Cable 50 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6178-50CM





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units GHz	
Frequency Range	DC		5.8		
VSWR			1.4:1		
Velocity of Propagation		76		%	
RF Shielding	100			dB	
Passive Intermodulation		-165	-160	dBc	
Capacitance		27 [88.58]		pF/ft [pF/m]	
Inductance		0.067 [0.22]		uH/ft [uH/m]	
DC Resistance Inner Conductor		3 [9.84] Ω/10		Ω/1000ft [Ω/Km]	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.038	0.048	0.057	0.094	0.148	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		19.7 [500.0]		in [mm]
Jacket Diameter		0.28 [7.11]		in [mm]
One Time Minimum Bend Radius	1.25			in
Bending Moment		0.8		lbs-ft

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Cable Characteristics

Description	Specification		
Cable Type	SPP-250-LLPL		
Impedance	50 Ohms		
Inner Conductor Type	Solid		
Inner Conductor Material and Plating	Copper		
Dielectric Type	PTFE		
Number of Shields	1		
Shield Layer 1	Helically Corrugated Copper Tube		
Outer Conductor Material and Plating	Copper		
Outer Conductor Diameter	0.25 in [6.35 mm]		
Jacket Material	FEP, Blue		

Connector Characteristics

Description	Connector 1	Connector 2	
Туре	4.3-10 Male	4.3-10 Male	
Impedance	50 Ohms	50 Ohms	
Connection Method	Snap-On	Snap-On	
Contact Material and Plating	Brass, Silver	Brass, Silver	
Contact Plating Specification	200µ in	200µ in	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	80µ in	80µ in	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Plating Specification	80µ in	80µ in	
Torque	44.25 in-lbs 5 Nm	44.25 in-lbs 5 Nm	

Mechanical Specification Notes:

Environmental Specifications

Specification	
-55 to +200 deg C	
-55 to +200 deg C	
UL910	
	-55 to +200 deg C -55 to +200 deg C

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Compliance Certifications (see product page for current document)
Plotted and Other Data Notes: • Values at 25°C, sea level.
Typical Performance Data
PIM LEVEL PIM LEVEL <test result=""> dBc</test>

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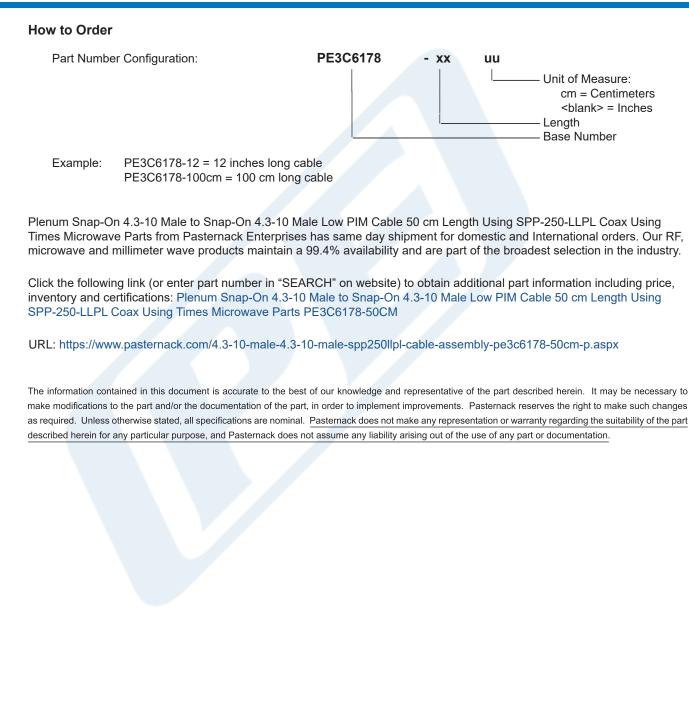


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Plenum Snap-On 4.3-10 Male to Snap-On 4.3-10 Male Low PIM Cable 50 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts

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PE3C6178-50CM



PE3C6178-50CM CAD Drawing Plenum Snap-On 4.3-10 Male to Snap-On 4.3-10 Male Low PIM Cable 50 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts

