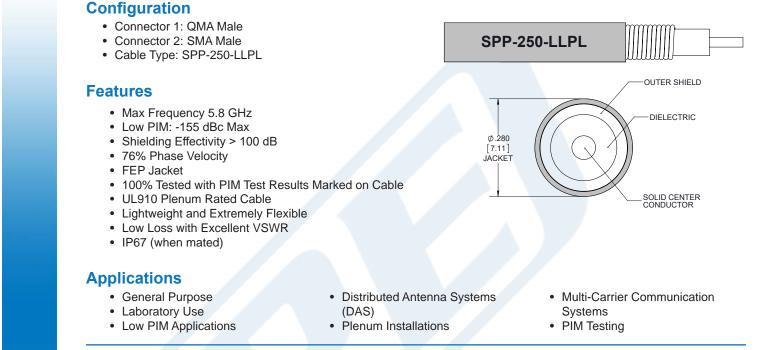


PERMAN

Plenum QMA Male to SMA Male Low PIM Cable 12 Inch Length Using SPP-250-LLPL Coax , LF Solder

# **RF Cable Assemblies Technical Data Sheet**

# PE3C5870-12



## Description

Pasternack's PE3C5870-12 QMA male to SMA male 12 inch 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 QMA to SMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C5870-12 QMA male to SMA male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -155 dBc.

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 QMA Male to SMA Male Low PIM Cable 12 Inch Length Using SPP-250-LLPL Coax, LF Solder PE3C5870-12

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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## PE3C5870-12

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	100			dB
Passive Intermodulation			-155	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]		Ohms/1000ft [Ohms/
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.)	0.1	0.12	0.14	0.23	0.35	dB

#### **Electrical Specification Notes:**

The insertion loss data above is based on the performance specifications of the coax cable used in this assembly. The insertion loss includes an estimated insertion loss of 0.04\*SQRT(FGHz) dB maximum per connector.

### **Mechanical Specifications**

Cable Assembly	
Length*	12 in [304.8 mm]
Cable	
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
Outer Conductor Material and Plating	Copper
Jacket Material	FEP, Blue
Jacket Diameter	0.28 in [7.11 mm]
Or a Time Minimum David David	4.05 in [04.75 mm]
One Time Minimum Bend Radius	1.25 in [31.75 mm]

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Description	Conn
Connectors	
Bending Moment	

Connector 1	Connector 2	
QMA Male	SMA Male	
50 Ohms	50 Ohms	
Brass, Silver	Brass, Gold	
PTFE	PTFE	
Phosphor Bronze, Tri-Metal		
Brass, Tri-Metal	Brass, Tri-Metal	
Brass, Tri-Metal	Brass, Tri-Metal	
	QMA Male 50 Ohms Brass, Silver PTFE Phosphor Bronze, Tri-Metal Brass, Tri-Metal	

Mechanical Specification Notes:

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

#### **Environmental Specifications**

Temperature Operating Range

-55 to +165 deg C

0.8 lbs-ft [1.08 N-m]

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

## **Plotted and Other Data**

Notes:

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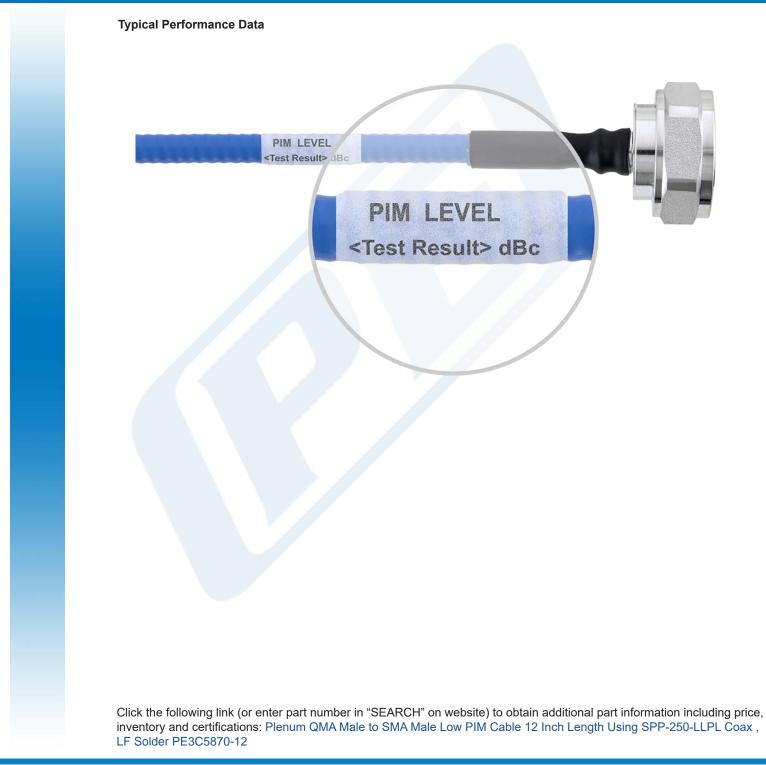




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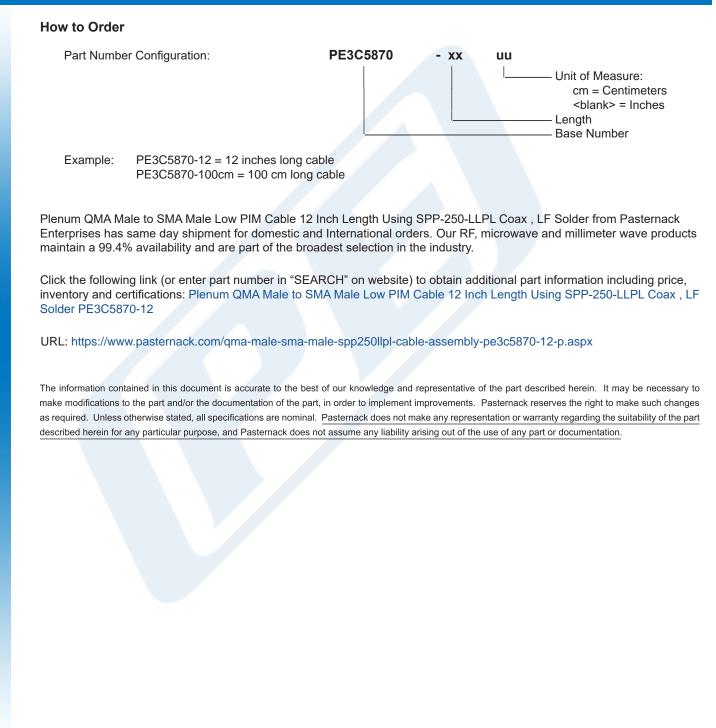




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PE3C5870-12 CAD Drawing Plenum QMA Male to SMA Male Low PIM Cable 12 Inch Length Using SPP-250-LLPL Coax, LF Solder

