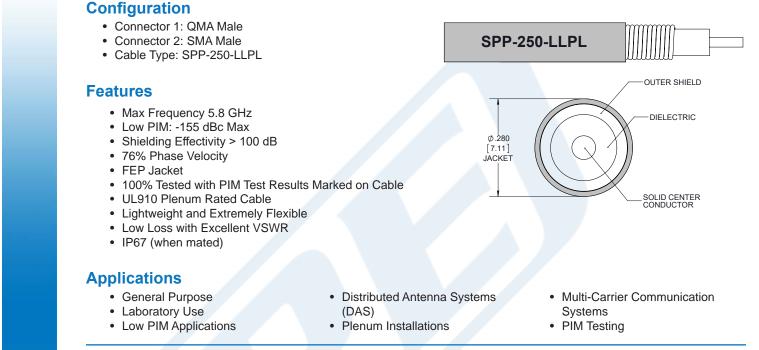


PERMAN

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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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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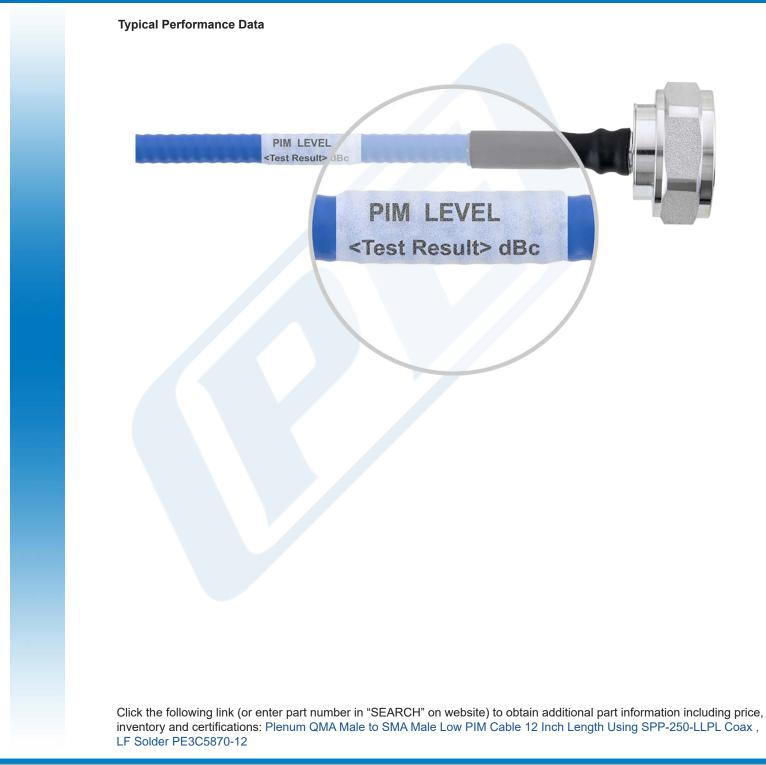




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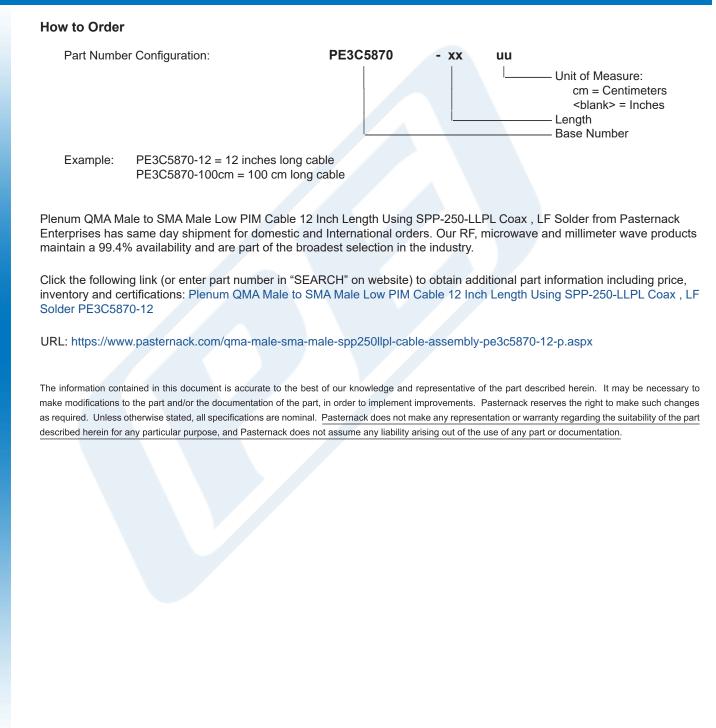




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PE3C5870-12 CAD Drawing Plenum QMA Male to SMA Male Low PIM Cable 12 Inch Length Using SPP-250-LLPL Coax, LF Solder

