

N Male to N Male Low Loss Cable 50 CM Length Using PE-P160LL Coax



PE3C5255-50CM

OUTER BRAID

INNER SHIELD

INNER BRAID

Configuration

- Connector 1: N Male
- Connector 2: N Male
- · Cable Type: PE-P160LL

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB

RF Cable Assemblies Technical Data Sheet

- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- 0.8 inch Minimum Bend Radius
- Max VSWR of 1.35:1 to 18 GHz
- · Same Day Shipment of Custom Lengths
- · RoHS and REACH Compliant

Applications

- General Purpose
- Laboratory Use

- Automated Test Systems
- Airborne Systems

Phased Arrays

SECTION VIEW

Ø.160 [4.06]

DIELECTRIC

SOLID CENTER

• EW and Countermeasures

Description

The PE3C5255-50CM N Male to N Male Low Loss cable assembly is part of a series of cable assemblies that use our PE-P160LL double shielded coax. The PE-P160LL based cable assemblies are available in a variety of connector configurations operating to a maximum frequency for this cable series of 18 GHz. The PE3C5255-50CM high performance cable assembly with a 82.5% phase velocity offers very low loss performance in a 0.16 inch coax up to 18 GHz. The shielding effectiveness of the PE-P160LL double shielded coax is greater than 95 dB. The durable stainless steel connectors and FEP cable jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. A heavy duty heat shrink booting provides improved strain relief and adds to the durability of the cable assembly.

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: N Male to N Male Low Loss Cable 50 CM Length Using PE-P160LL Coax PE3C5255-50CM

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 | า | Minim | um ⁻ | Typical | Maximum | Units |
|-------------------------|---------|-------|-----------------|------------|---------|--------------|
| Frequency Range | | DC | | | 18 | GHz |
| VSWR | | | | | 1.35:1 | |
| Velocity of Propagation | | | | 82.5 | | % |
| RF Shielding | | 90 | | | | dB |
| Capacitance | | | 1 | 25 [82.02] | | pF/ft [pF/m] |
| Specifications by Fre | equency | | | | | |
| Description | F1 | F2 | F3 | F4 | F5 | Units |
| Frequency | 1 | 2 | 4.5 | 9 | 18 | GHz |
| Insertion Loss (Typ.) | 0.24 | 0.35 | 0.53 | 0.76 | 1.09 | 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(F(GHz))dB maximum per connector.

Mechanical Specifications

Cable Assembly Length*

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Shield Layer 3 Jacket Material Jacket Diameter

Repeated Minimum Bend Radius

19.69 in [500.13 mm]

PE-P160LL 50 Ohms Solid Copper, Silver Expanded PTFE Tape 3 Silver Plated Copper Aluminum Polyester Silver Plated Copper FEP 0.16 in [4.06 mm]

0.8 in [20.32 mm]

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File Contraction

Connectors

| Description | Connector 1 | Connector 2 N Male | |
|-----------------------------------|----------------------------|----------------------------|--|
| Туре | N Male | | |
| Impedance | 50 Ohms | 50 Ohms | |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold | |
| Contact Plating Specification | ASTM-B488 | ASTM-B488 | |
| Dielectric Type | PTFE | PTFE | |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel | |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel | |

Environmental Specifications

Temperature Operating Range

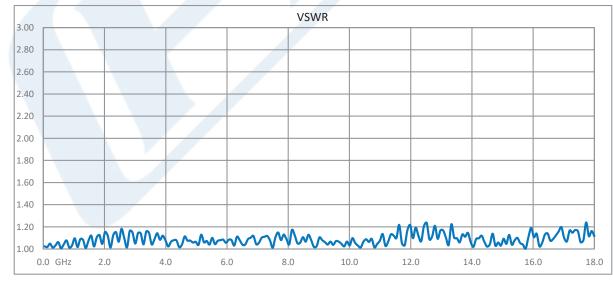
-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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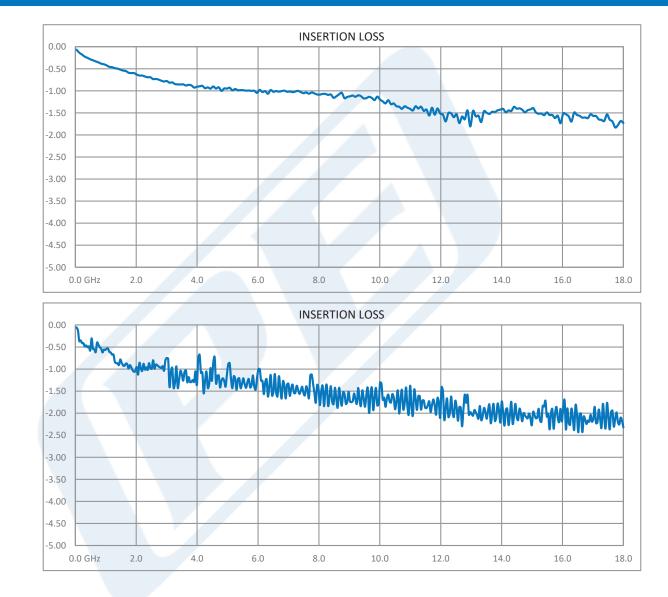
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How to Order Part Number Configuration: PE3C5255 - XX uu - Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE3C5255-12 = 12 inches long cable PE3C5255-100cm = 100 cm long cable N Male to N Male Low Loss Cable 50 CM Length Using PE-P160LL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry. Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to N Male Low Loss Cable 50 CM Length Using PE-P160LL Coax PE3C5255-50CM URL: https://www.pasternack.com/n-male-n-male-pe-p160ll-cable-assembly-pe3c5255-50cm-p.aspx The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE3C5255-50CM CAD Drawing N Male to N Male Low Loss Cable 50 CM Length Using PE-P160LL Coax

