



75 Ohm N Male to 75 Ohm F Male Cable Using 75 Ohm Armored Test Coax, RoHS

RF Cable Assemblies Technical Data Sheet

PE3CA1031

Configuration

- Connector 1: N Male
- Connector 2: F Male
- Cable Type: Flexible Cable

Features

- Max Frequency 3 GHz
- PVC Jacket DC-3GHz
- Low Insertion loss
- Excellent Return loss Greater than 28 dB
- ANSI/SCTE 99 2009 pull force
- Rugged Protective Outer Jacket
- Specially designed for Testing of 75 Ohm communication systems.
- Custom lengths available upon request.

Applications

- General Purpose
- Laboratory Use Test & measurement
- Lab Equipment Accessories
- General Purpose Test and Evaluation
- Engineering Prototype Evaluation

Description

Pasternack's PE3CA1031 general purpose 75 Ohm Flexible Armored Test Cable exhibits excellent insertion loss and return loss values with operation up to 3 GHz. These test cables are suitable for engineering labs, production environments and quality testing facilities. The PE3CA1031 test cable is a good choice for use with 75 Ohm S-parameter test systems and these cables meet ANSI/SCTE 99 2009 pull force and ANSI/SCTE 98 2009 tightening torque standards.

Pasternack's large portfolio of test and measurement components offers users a variety of options that are suitable for a broad spectrum of RF applications and environments. You can rely on Pasternack to have all of the test and measurement products you need in-stock and available to ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.16:1	
Insertion Loss			0.193	dB/ft
			0.63	dB/m
Inductance		75 [246.06]		uH/ft [uH/m]
Dielectric Withstanding Voltage (AC)			700	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm N Male to 75 Ohm F Male Cable Using 75 Ohm Armored Test Coax, RoHS PE3CA1031](#)



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	3			GHz
Insertion Loss (Typ.)	0.11	0.164	0.193			dB/ft
	0.36	0.54	0.63			dB/m
VSWR (Max.)	1.04:1	1.07:1	1.08:1			
Return Loss (Max.)	35	30	28			dB

Mechanical Specifications

Cable Assembly

Diameter	0.35 in [8.89 mm]
Weight	0.12 lbs [54.43 g]

Cable

Cable Type	Flexible Cable
Impedance	75 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Bare
Dielectric Type	Polyethylene
Shield Layer 1	Copper
Jacket Material	PVC, Black
Jacket Diameter	0.3 in [7.62 mm]
Typical Flex Cycles	100,000
Tensile Strength	40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Male	F Male
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Copper, Gold	Beryllium Copper
Dielectric Type	PE	PE

Mechanical Specification Notes:

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

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Environmental Specifications

Temperature

Operating Range

-20 to +60 deg C

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

PE3CA1031 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3CA1031-12 = 12 inches long cable
PE3CA1031-100cm = 100 cm long cable

75 Ohm N Male to 75 Ohm F Male Cable Using 75 Ohm Armored Test Coax, RoHS 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.

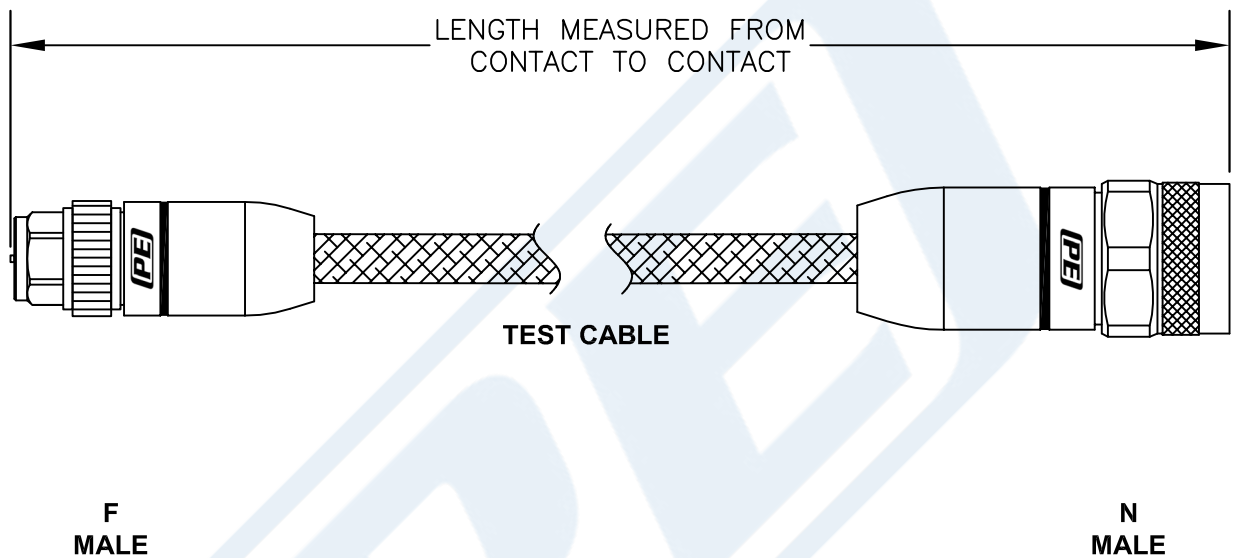
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URL: <https://www.pasternack.com/n-male-f-male-pe75test-cable-assembly-pe3ca1031-p.aspx>

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.

PE3CA1031 CAD Drawing

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NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS $\pm 1.5\%$ OR $3/8"$, WHICHEVER IS GREATER.



Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE

PE3CA1031

FSCM NO. 53919

CAD FILE

031115

SCALE N/A

SIZE A

150