



## MHV Male to N Male Cable Using RG400 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE3C6158LF**

#### Configuration

- Connector 1: MHV Male
- Connector 2: N Male
- Cable Type: RG400

#### Features

- Max Frequency 300 MHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C6158LF MHV male to type N male cable using RG400 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack MHV to type N cable assembly has a male to male gender configuration with 50 ohm flexible RG400 coax. The PE3C6158LF MHV male to type N male cable assembly operates to 300 MHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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: [MHV Male to N Male Cable Using RG400 Coax , LF Solder PE3C6158LF](#)



## MHV Male to N Male Cable Using RG400 Coax , LF Solder

**RF Cable Assemblies Technical Data Sheet**
**PE3C6158LF**
**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		300	MHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	300			MHz
Insertion Loss (Typ.)	0.044	0.061	0.066			dB/ft
	0.14	0.2	0.22			dB/m

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

**Mechanical Specifications**
**Cable Assembly**
**Cable**

Cable Type

RG400

Impedance

50 Ohms

Inner Conductor Type

Stranded

Inner Conductor Material and Plating

Copper, Silver

Dielectric Type

PTFE

Number of Shields

2

Shield Layer 1

Silver Plated Copper Braid

Shield Layer 2

Silver Plated Copper Braid

Jacket Material

FEP, Tan

Jacket Diameter

0.195 in [4.95 mm]

Repeated Minimum Bend Radius

1 in [25.4 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MHV Male to N Male Cable Using RG400 Coax , LF Solder PE3C6158LF](#)



MHV Male to N Male Cable Using RG400 Coax , LF Solder

**RF Cable Assemblies Technical Data Sheet**
**PE3C6158LF**
**Connectors**

Description	Connector 1	Connector 2
Type	MHV Male	N Male
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Silver
Contact Plating Specification	30µ in. minimum	ASTM-B700
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100µ in. minimum	ASTM-B689
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100µ in. minimum	ASTM-B689

**Environmental Specifications**
**Temperature**

Operating Range

-55 to +165 deg C

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

**Plotted and Other Data**

## Notes:

- Values at 25° C, sea level

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MHV Male to N Male Cable Using RG400 Coax , LF Solder PE3C6158LF](#)



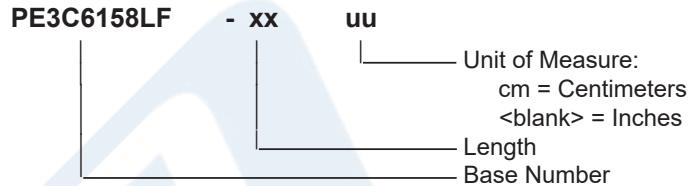
## MHV Male to N Male Cable Using RG400 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE3C6158LF**

#### How to Order

Part Number Configuration:



Example: PE3C6158LF-12 = 12 inches long cable  
PE3C6158LF-100cm = 100 cm long cable

MHV Male to N Male Cable Using RG400 Coax , LF Solder 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: [MHV Male to N Male Cable Using RG400 Coax , LF Solder PE3C6158LF](#)

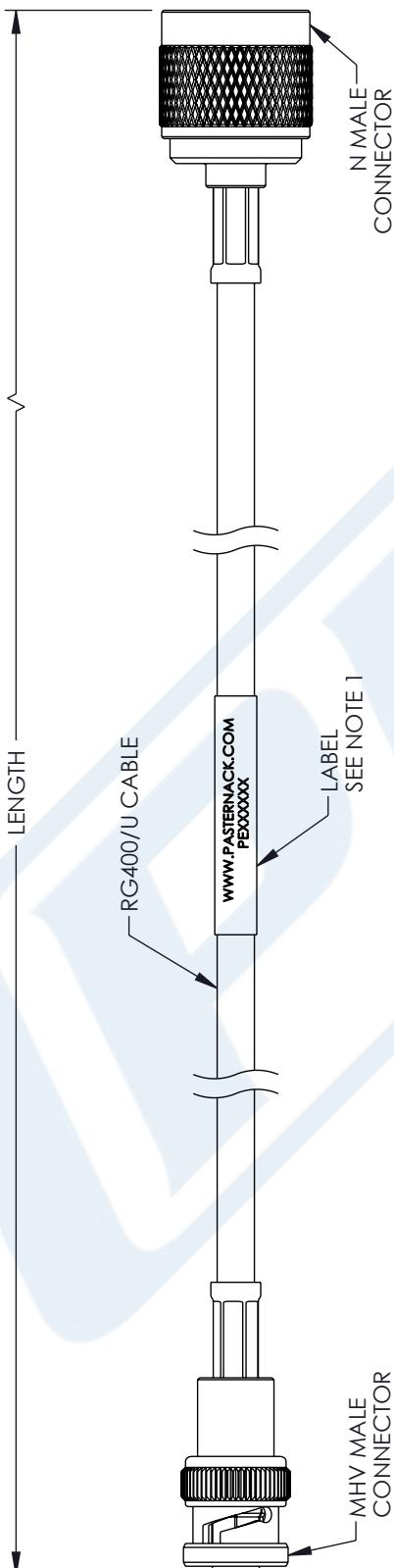
URL: <https://www.pasternack.com/mhv-male-to-n-male-cable-using-rg400-lf-solder-pe3c6158lf-p.aspx>

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.

PE3C6158LF CAD Drawing

## MHV Male to N Male Cable Using RG400 Coax , LF Solder

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/13/2023	KGLEBOVA	AGANWANI



## NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES APART  
FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.  
THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

---

TOLERANCES:

1. 1.51 - 1.52

TOLERANCES PER ASME Y14.5

1 OF 1

111

G RG400 COAX,

100

REV A

$$\begin{array}{ll} \text{FRACTIONS} & \pm 1/32 \\ \mathcal{X} = \pm .2 & [ .5 ] \\ \mathcal{XX} = \pm .02 & [ .5 ] \end{array}$$

**CABLE LENGTH TOLERANCES:**

$>12 [305] \leq 60 [1524] = +2 [51] / -0$   
 $>60 [1524] \leq 120 [3048] = +4 [102] / -0$

$>120 [3048] \leq 300 [7620] = +6 [152] / -0$   
 $>300 [7620] = +5 \% / -0$

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
AND SUBJECT TO CHANGE WITHOUT NOTICE