

# MHV Female to MHV Male Cable 18 Inch Length Using RG141 Coax



## RF Cable Assemblies Technical Data Sheet

PE3W08810-18

## Configuration

Connector 1: MHV FemaleConnector 2: MHV MaleCable Type: RG141

#### **Features**

- Max Frequency 300 MHz
- 70% Phase Velocity
- PTFE (FG) Jacket

## **Applications**

General Purpose

Laboratory Use

#### **Description**

Pasternack's PE3W08810-18 MHV female to MHV male 18 inch cable using RG141 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 MHV cable assembly has a female to male gender configuration with 50 ohm flexible RG141 coax. The PE3W08810-18 MHV female to MHV male cable assembly operates to 300 MHz.

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.

#### **Electrical Specifications**

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 300     | MHz          |
| VSWR                    |         |              | 1.5:1   |              |
| Velocity of Propagation |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |
| Jacket Spark            |         |              | 2,000   | Vrms         |

## Specifications by Frequency

| Description           | F1   | F2   | F3   | F4  | F5 | Units |
|-----------------------|------|------|------|-----|----|-------|
| Frequency             | 50   | 100  | 250  | 300 |    | MHz   |
| Insertion Loss (Max.) | 0.24 | 0.26 | 0.29 | 0.3 |    | dB    |

**Electrical Specification Notes:** 

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MHV Female to MHV Male Cable 18 Inch Length Using RG141 Coax PE3W08810-18

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1 dB per MHV female and MHV male connector.

#### **Mechanical Specifications**

**Cable Assembly** 

Length\* 18 in [457.2 mm]
Diameter 0.57 in [14.48 mm]

Cable

Cable Type RG141
Impedance 50 Ohms
Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type PTFE
Number of Shields 1

Shield Layer 1 Silver Plated Copper Jacket Material PTFE (FG), Beige Jacket Diameter 0.19 in [4.83 mm]

#### Connectors

| Description                          | Connector 1    | Connector 2     |
|--------------------------------------|----------------|-----------------|
| Туре                                 | MHV Female     | MHV Male        |
| Specification                        | MIL-STD-348    | MIL-STD-348A    |
| Impedance                            | 50 Ohms        | 50 Ohms         |
| Contact Material and Plating         | Nickel, Silver | Brass, Gold     |
| Contact Plating Specification        | QQ-S-365       | 30 μin minimum  |
| Dielectric Type                      | PTFE           | PTFE            |
| Outer Conductor Material and Plating | Nickel, Silver | Brass, Nickel   |
| Body Material and Plating            | Brass, Nickel  | Brass, Nickel   |
| Body Plating Specification           | QQ-N-290       | 100 µin minimum |
| Coupling Nut Material and Plating    |                | Brass, Nickel   |
| Coupling Nut Plating Specification   |                | 100 µin minimum |
| Seal Gasket Material                 |                | Silicone        |
|                                      |                |                 |

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

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## PE3W08810-18

#### **How to Order**



Example: PE3W08810-12 = 12 inches long cable

PE3W08810-100cm = 100 cm long cable

MHV Female to MHV Male Cable 18 Inch Length Using RG141 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: MHV Female to MHV Male Cable 18 Inch Length Using RG141 Coax PE3W08810-18

URL: https://www.pasternack.com/mhv-female-mhv-male-rg141au-cable-assembly-pe3w08810-18-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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PE3W08810-18 CAD Drawing
MHV Female to MHV Male Cable 18 Inch Length Using RG141 Coax

