

## MHV Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, .100 inch Cable



### FMCN5245

#### Configuration

- MHV Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG316, RG188, LMR-100, .100 inch

#### Features

- Operating Frequency of 500 MHz Max.
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

MHV Male Standard Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100 and .100 inch Cable, part number FMCN5245, from Fairview Microwave is in-stock and ships same day. This MHV male connector operates up to a maximum frequency of 500 MHz and offers good VSWR of 1.3:1.

Fairview's MHV male connector FMCN5245 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		500	MHz
VSWR			1.3:1	
Operating Voltage (AC)			1,600	Vrms
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	1.42 in [36.07 mm]
Width	0.57 in [14.48 mm]
Height	0.57 in [14.48 mm]
Weight	0.036 lbs [16.33 g]

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RG174, RG316, RG188, LMR-100, .100 inch Cable



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**Material Specifications**

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin minimum

**Environmental Specifications**

<b>Temperature</b> Operating Range	-65 to +165 deg C
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

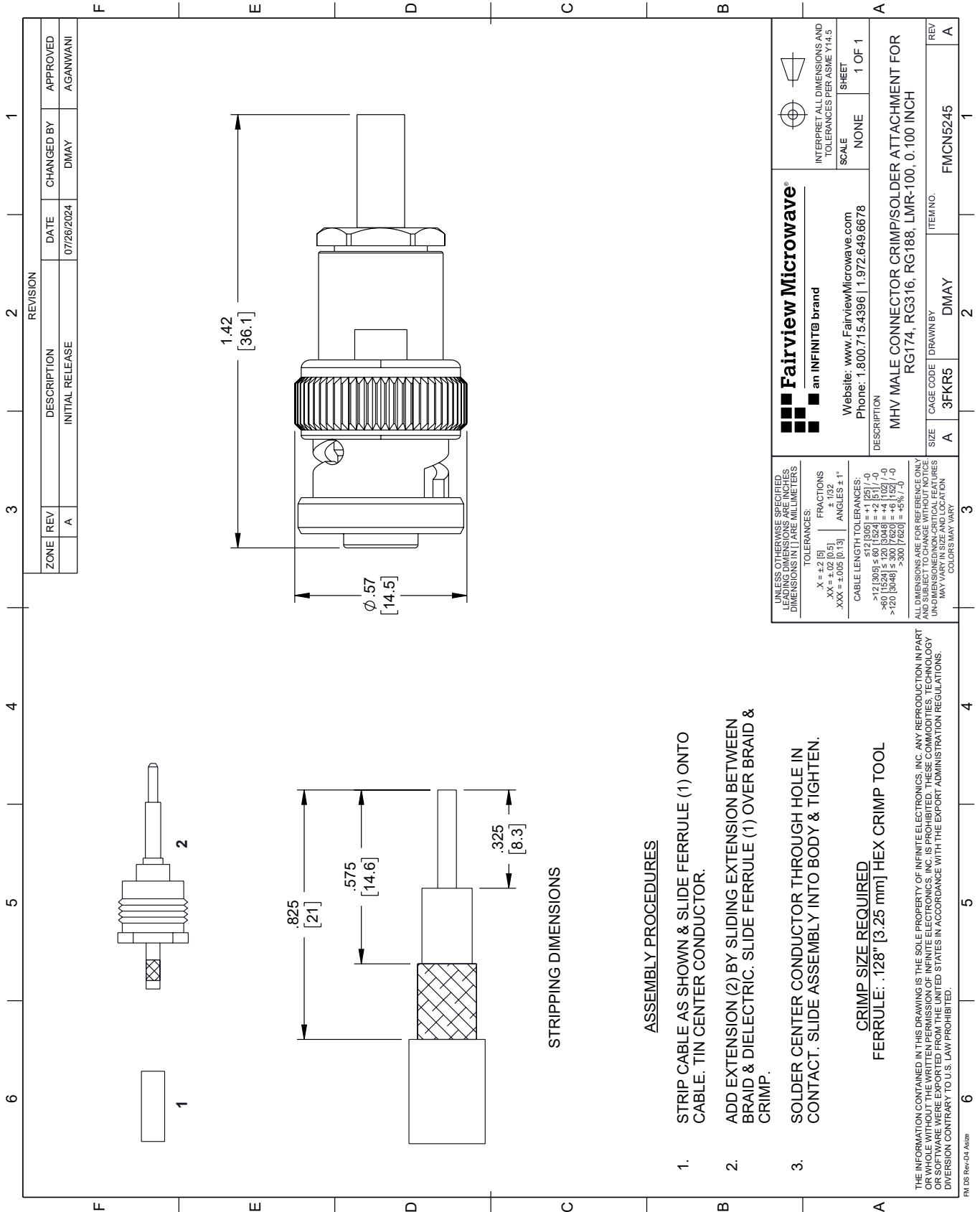
Notes:

MHV Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, .100 inch Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [MHV Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, .100 inch Cable FMCN5245](#)

URL: <https://www.fairviewmicrowave.com/mhv-male-rg174-rg316-rg188-lmr-100-.100-connector-fmcn5245-p.aspx>

The information contained within 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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.



**STRIPPING DIMENSIONS**

**ASSEMBLY PROCEDURES**

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1) ONTO CABLE. TIN CENTER CONDUCTOR.
2. ADD EXTENSION (2) BY SLIDING EXTENSION BETWEEN BRAID & DIELECTRIC. SLIDE FERRULE (1) OVER BRAID & CRIMP.
3. SOLDER CENTER CONDUCTOR THROUGH HOLE IN CONTACT. SLIDE ASSEMBLY INTO BODY & TIGHTEN.

**CRIMP SIZE REQUIRED**  
**FERRULE: .128" [3.25 mm] HEX CRIMP TOOL**

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<p><b>Fairview Microwave®</b> an INFINIT® brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>
<p>Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a>                  Phone: 1.800.715.4396   1.972.649.6678</p>		<p>SCALE: NONE                  SHEET: 1 OF 1</p>
<p>DESCRIPTION: MHV MALE CONNECTOR CRIMP/SOLDER ATTACHMENT FOR RG174, RG316, RG188, LMR-100, 0.100 INCH</p>		
<p>SIZE: A</p>	<p>CAGE CODE: 3FKR5</p>	<p>ITEM NO.: FMCN5245</p>
<p>REV: A</p>	<p>DRAWN BY: DMAY</p>	<p>REV: A</p>

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

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32  
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:  
 <12 [305] ≤ 60 [1524] = +1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.