

#### FME Plug Connector Crimp/Solder Attachment For RG58



#### TECHNICAL DATA SHEET

PE44295

#### **FME Plug Connector Crimp/Solder Attachment For RG58**

Configuration

Connector FME Plug
Connector Interface Type RG58
Cable Attachment Method (Shield/Contact) Crimp/Solder
Body Style Straight

**Electrical Specifications** 

Impedance, Ohms 50

#### **Mechanical Specifications**

Size

 Length, in [mm]
 1.335 [33.91]

 Width/Dia., in [mm]
 0.354 [8.99]

 Weight, lbs [g]
 0.013 [5.9]

Connector

Type FME Plug
Contact Material and Plating Brass, Gold
Contact Plating Specification 30μ in. minimum
Body Material and Plating Brass, Nickel
Body Plating Specification 100μ in. minimum

Dielectric Type Teflon

#### Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes

#### **Plotted and Other Data**

Notes: Values at 25 °C, sea level

FME Plug Connector Crimp/Solder Attachment For RG58 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

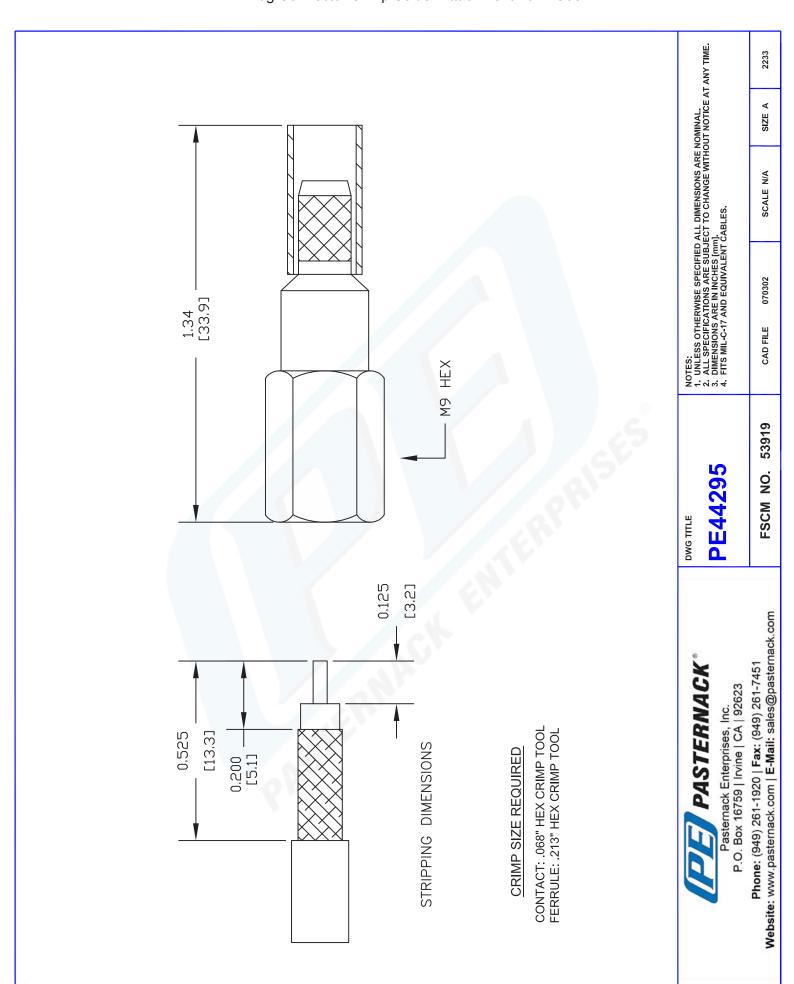
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: FME Plug Connector Crimp/Solder Attachment For RG58 PE44295

URL: http://www.pasternack.com/fme-plug-standard-rg58-connector-pe44295-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 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

**PE44295 CAD Drawing**FME Plug Connector Crimp/Solder Attachment For RG58









#### **RF Connectors Technical Data Sheet**

**PE4329** 

#### Configuration

- N Male Connector
- 50 Ohms
- Straight Body Geometry

- · RG58 Interface Type
- Crimp/Solder Attachment

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
Dielectric Withstanding Voltage (AC)			700	

#### **Mechanical Specifications**

Weight 0.068 lbs [30.84 g]

#### **Material Specifications**

Description	Material	Plating
Contact	Brass	Silver
Insulation	Teflon	
Body	Brass	Nickel

#### **Environmental Specifications**

**Temperature** 

Operating Range -65 to 165 deg C

Compliance Certifications (visit www.Pasternack.com for current document)
RoHS Compliant

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male Connector Crimp/Solder Attachment For RG58 PE4329

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#### N Male Connector Crimp/Solder Attachment For RG58



#### **RF Connectors Technical Data Sheet**

**PE4329** 

#### **Plotted and Other Data**

Notes:

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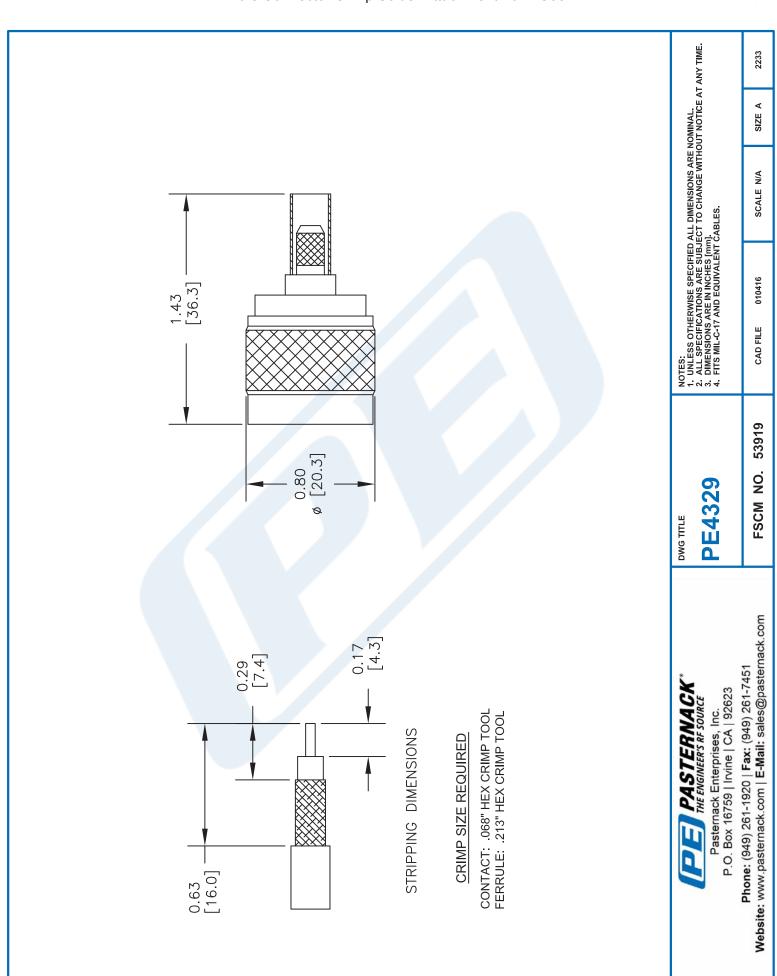
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## TIMES MICROWAVE SYSTEMS

# LMR®-195 Flexible Low Loss Communications Coax Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
- Drop-in replacement for RG-58 and RG-142
- LMR\* standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than air-dielectric and corrugated hard-line cables.
- LMR\*- DB is identical to standard LMR plus has the advantage of being watertight. The addition of waterproofing compound in and around the foil/braid insures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.
- LMR\*-FR is a non-halogen (non-toxic), low smoke, fire retardant cable designed for in-building runs that can be routed anywhere except air handling plenums. LMR-FR is UL/NEC & CSA rated 'CMR' and 'FT4' respectively, meets FAA FAR25 requirements and is MSHA-P for mining applications.
- LMR\*- FR-PVC is a general-purpose indoor cable and has a UL/NEC & CSA rating of 'CMR' and 'FT4' respectively. It is less expensive than LMR-FR, however it emits toxic fumes (HCL) and greater smoke density when burned.
- LMR°-PVC is designed for low loss general-purpose applications and is somewhat more flexible than the standard polyethylene jacketed LMR.
- LMR\*-PVC-W is a white-jacketed version of LMR-PVC for marine and other applications where color compatibility is desired.
- LMR\*- MA is a flexible cable designed specifically for mobile antenna applications. It has a PVC jacket and un-bonded aluminum tape to facilitate end stripping with automated equipment.
- Flexibility and bendability are hallmarks of the LMR-195 cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.

• Low Loss is another hallmark feature of LMR-195. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.

LMR 105 TIMES MI

- **RF Shielding** is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. >180 dB between two adjacent cables).
- Weatherability: LMR-195 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.
- Connectors: A wide variety of connectors are available for LMR-195 cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.
- Cable Assemblies: All LMR-195 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

	<b>Part Description</b>			Stock
Part Number	Application	Jacket	Color	Code
LMR-195	Outdoor	PE	Black	54110
LMR-195-DB	Outdoor/Watertight	PE	Black	54113
LMR-195-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54111
LMR-195-FR-W	Indoor/Outdoor Riser CMR	FRPE	White	54158
LMR-195-FR-P	/C Indoor/Outdoor Riser CN	/IR FRP\	/C Black	54105
LMR-195-MA	Mobile Antennas	PVC	Black	54210
LMR-195-PVC	General Purpose	PVC	Black	54215
LMR-195-PVC-	W General Purpose	PVC	White	54199

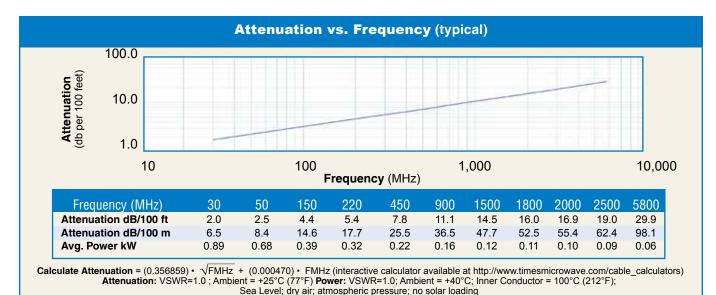
Construction Specifications						
Description	Material	In.	(mm)			
Inner Conductor	Solid BC	0.037	(0.94)			
Dielectric	Foam PE	0.110	(2.79)			
Outer Conductor	Aluminum Tape	0.116	(2.95)			
Overall Braid	Tinned Copper	0.139	(3.53)			
Jacket	(see table above)	0.195	(4.95)			



Mechanical Specifications							
Performance Property	Units	US	(metric)				
Bend Radius: installation	n in. (mm)	0.5	(12.7)				
Bend Radius: repeated	in. (mm)	2.0	(50.8)				
Bending Moment	ft-lb (N-m)	0.2	(0.27)				
Weight	lb/ft (kg/m)	0.021	(0.03)				
Tensile Strength	lb (kg)	40	(18.2)				
Flat Plate Crush	lb/in. (kg/mm)	15	(0.27)				

Environmental Specifications					
Performance Property	°F	°C			
Installation Temperature Range	-40/+185	-40/+85			
Storage Temperature Range	-94/+185	-70/+85			
Operating Temperature Range	-40/+185	-40/+85			

Electrical Specifications						
Performance Property	Units	US	(metric)			
Velocity of Propagation	%	76				
Dielectric Constant	NA	1.56				
Time Delay	nS/ft (nS/m)	1.27	(4.17)			
Impedance	ohms	50				
Capacitance	pF/ft (pF/m)	25.4	(83.3)			
Inductance	uH/ft (uH/m)	0.064	(0.21)			
Shielding Effectiveness DC Resistance	dB	>90				
Inner Conductor	ohms/1000ft (/km)	7.6	(24.9)			
Outer Conductor	ohms/1000ft (/km)	4.9	(16.1)			
Voltage Withstand	Volts DC	1000				
Jacket Spark	Volts RMS	3000				
Peak Power	kW	2.5				









### **Connectors**

Interface	Description	Part Number	Stock Code	VSWR** Freq. (GHz)	Coupling Nut	Inner Contact Attach	Outer Contact Attach	Finish* Body /Pin	Length in (mm)	Width in (mm)	Weight lb (g)
N male	Straight Plug	TC-195-NM	3190-1555	<1.25:1 (2.5)	Knurl	Solder	Crimp	S/G	1.5 (38.1)	0.75 (19.1)	0.073 (33.1)
N male	Right Angle	TC-195-NMH-RA-D	3190-2425	<1.35:1 (6)	Hex/Knurl	Solder	Crimp	A/G	1.3 (32.1)	1.19 (30.1)	0.083 (37.5)
SMA male	Straight Plug	TC-195-SM	3190-1553	<1.25:1 (2.5)	Hex	Solder	Crimp	SS/G	1.0 (25.4)	0.32 (8.1)	0.015 (6.8)
TNC male	Straight Plug	TC-195-TM	3190-1554	<1.25:1 (2.5)	Knurl	Solder	Crimp	S/G	1.4 (35.6)	0.59 (15.0)	0.045 (20.4)

<sup>\*</sup> Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy \*\*VSWR spec based on 3 foot cable with a connector pair

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Type	Pa	rt Number	Stock Code	Description
Crimp (	CT-24	0/200/195/100	3190-667	Crimp tool for LMR-100,195, 200 and 240 connectors
Cutting T	ool	CCT-01	3190-1544	Cable end flush cut tool
Deburr To	ool	DBT-U	3192-001	Removes center conductor rough edges
Replacem Blade	nent	RB-01	3190-1609	Replacement blade for cutting tool



