

N Female Connector Crimp/Solder Attachment 4 Hole Flange For RG58, .718 inch Hole Spacing



TECHNICAL DATA SHEET

PE44069

N Female Connector Crimp/Solder Attachment 4 Hole Flange For RG58, .718 inch Hole Spacing

Co	nfia	uration

Connector N Female
Connector Specification MIL-STD-348A
Connector Interface Type RG58
Cable Attachment Method (Shield/Contact) Crimp/Solder
Body Style Straight
Mount Method 4 Hole Flange

Electrical Specifications

Frequency Range, GHz

Impedance, Ohms

Maximum Operating Voltage, Volts

Dielectric Withstanding Voltage, Vrms

Dielectric Withstanding Voltage, Vrms

Dielectric Withstanding Voltage, Vrms

Mechanical Specifications

Temperature

Operating Range, deg C -65 to +165

Size

 Length, in [mm]
 1.375 [34.93]

 Width/Dia., in [mm]
 1 [25]

 Height, in [mm]
 1 [25.4]

 Weight, lbs [g]
 0.068 [30.84]

Connector

Type N Female
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

URL: http://www.pasternack.com/n-female-standard-rg58-connector-pe44069-p.aspx

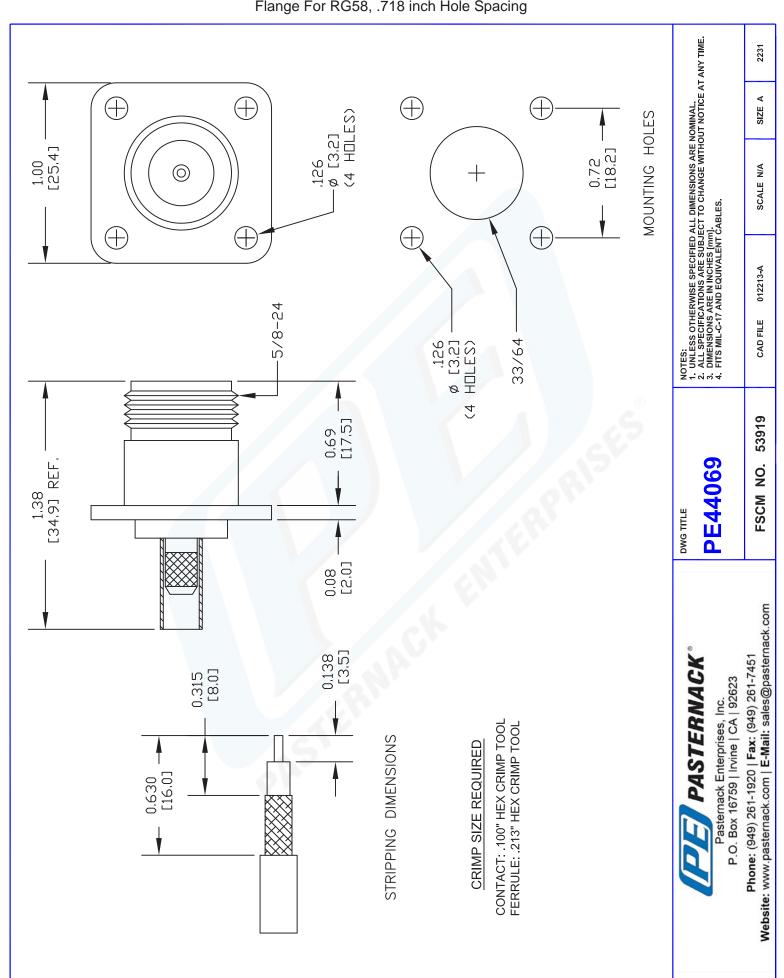
N Female Connector Crimp/Solder Attachment 4 Hole Flange For RG58, .718 inch Hole Spacing from Pasternack Enterprises has same day shipment for domestic and International orders. We maintain 99% availability of the industry's broadest selection of RF, microwave and fiber optic products.

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

PE44069 CAD Drawing

N Female Connector Crimp/Solder Attachment 4 Hole Flange For RG58, .718 inch Hole Spacing





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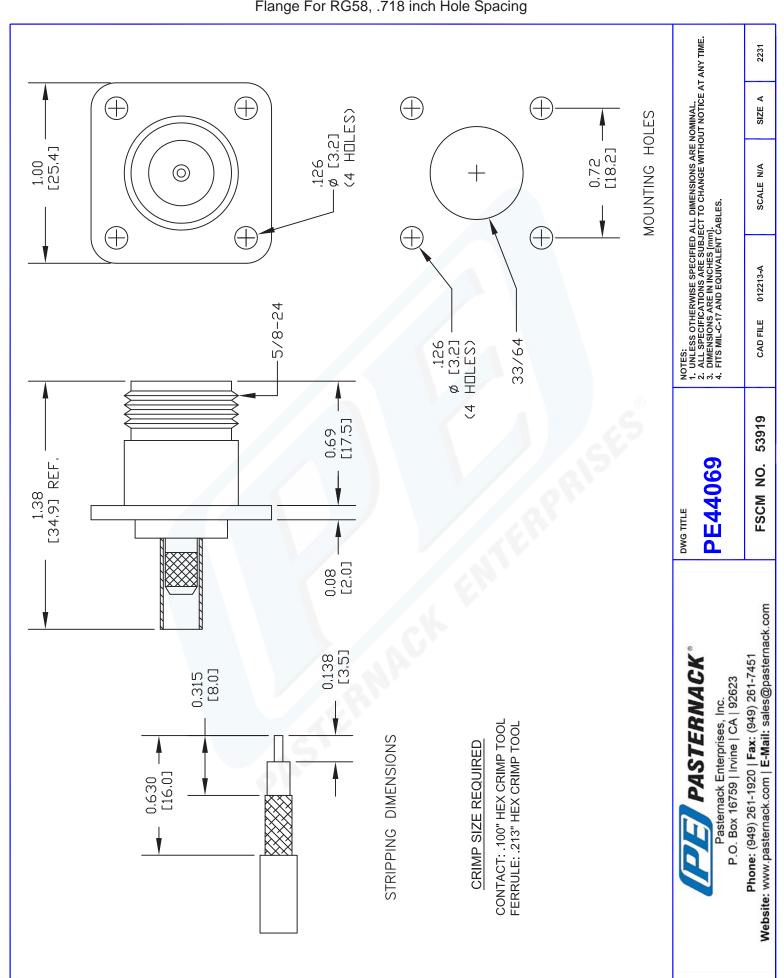
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TIMES MICROWAVE SYSTEMS

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.

	Part Description			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

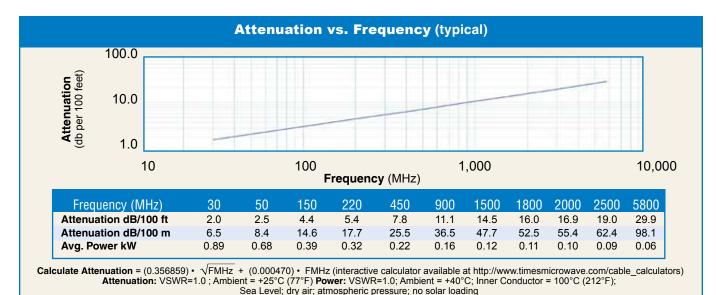
Construction Specifications						
Description	Material	In.	(mm)			
Inner Conductor	Solid BC	0.037	(0.94)			
Dielectric	Foam PE	0.110	(2.79)			
Outer Conductor	Aluminum Tape	0.116	(2.95)			
Overall Braid	Tinned Copper	0.139	(3.53)			
Jacket	(see table above)	0.195	(4.95)			



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)

^{*} 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



