



RF Connectors Technical Data Sheet

PE45223

Configuration

- Snap-On QN Male Connector
- 50 Ohms
- Right Angle Body Geometry

Features

- · Operates to 6 GHz
- · Quick Locking Snap On Connection
- · Reduced connector to connector spacing

- LMR-400, PE-C400, LMR-400-DB Interface Type
- Crimp/Solder Attachment
- 100 mating cycles
- No torque wrench required
- 360 degree rotation capability

Applications

- Telecommunication system
- Rack and Panel Mount Applications
- · High connection density systems

Description

Pasternack's PE45223 Snap-On QN Male Right Angle connector is part of our full line of RF connectors available for same-day shipping. Our Male QN connector operates to 6 GHz. The PE45223 provides excellent VSWR of 1.5:1 maximum to 6 GHz. The PE45223 Pasternack RF connector is designed for use with LMR-400 and PE-C400 and is attached to the body using a crimp connection and the center contact employs a solder connection.

QN connectors allow for an easy snap-on connection that securely locks in place for an easy mating reliable connection. In addition to the time savings offered by the Snap-On interface the QMA interface allow for a tighter density than a Threaded N interface which requires the use of a torque wrench to properly complete the connection. The QN interface is operational to 6 GHz when used on LMR-400 Coaxial cable. This QN connector is QLF approved and insures intermateability with other QLF QN products.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

 Length
 1.43 in [36.32 mm]

 Width/Dia.
 0.75 in [19.05 mm]

 Height
 1.28 in [32.51 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB PE45223

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





RF Connectors Technical Data Sheet

PE45223

Weight 0.091 lbs [41.28 g]
Mating Cycles 100 Cycles

Material Specifications

Description	Material	Plating
Contact	Brass	Silver
Insulation	PTFE	
Body	Brass	Silver
Coupling Nut	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range -55 to 125 deg C
Hermetic Seal ATM. cm3/s

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

RoHS Compliant

REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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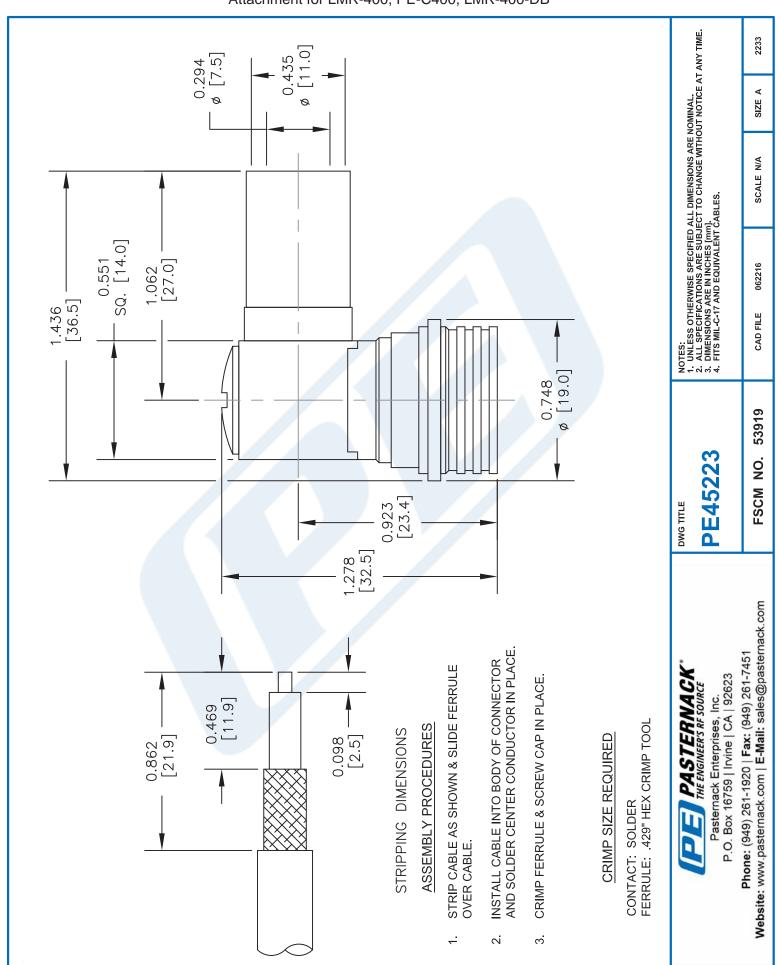
URL: https://www.pasternack.com/qn-male-snap-on-lmr-400-pe-c400-lmr-400-db-connector-pe45223-p.aspx

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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PE45223 CAD Drawing

QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB







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Environmental Specifications

Temperature

Operating Range -55 to 125 deg C
Hermetic Seal ATM. cm3/s

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REACH Compliant 12/17/2015

Plotted and Other Data

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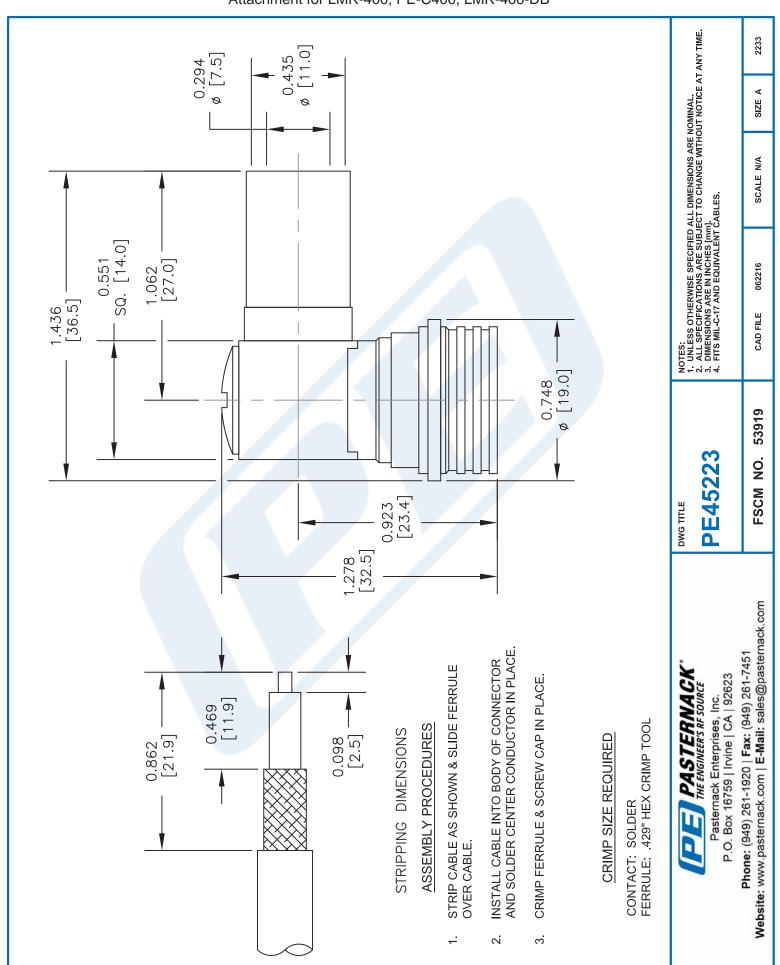
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PE45223 CAD Drawing

QN Male Right Angle Snap-On Connector Crimp/Solder Attachment for LMR-400, PE-C400, LMR-400-DB





LMR-8400-UF UltraFlex Communications Coax

Ideal for...

- Drop-in replacement for RG-8/9913 Air-Dielectric type Cable
- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application that requires periodic/repeated flexing

- LMR*- UltraFlex has a stranded center conductor and rubber outer jacket designed for multiple bending/ flexing cycles. It is used for both indoor and outdoor applications.
- **Flexibility** and bendability are hallmarks of the LMR-400-UF 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-400-UF. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.
- **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-400-UF cables are designed for outdoor exposure and have a life expectancy in excess of 10 years.

• Connectors: A wide variety of connectors are available for LMR-400-UF cable, including all common interface types, reverse polarity, and solder-on center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.

LWR-400 ULTRAFLEX TIME

• Cable Assemblies: All LMR-400-UF cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

	Part Description							
Part Number	Application	Jacket	Color	Code				
LMR-400-UF	Indoor/Outdoor	TPE	Black	54040				

Construction Specifications								
Description	Material	ln.	(mm)					
Inner Conductor	Stranded BC	0.108	(2.74)					
Dielectric	Foam Polyethylene	0.285	(7.24)					
Outer Conductor	Aluminum Tape	0.291	(7.39)					
Overall Braid	Tinned Copper	0.320	(8.13)					
Jacket	Black Thermoplastic Elastomer	0.405	(10.29)					



LMR®-400-UF UltraFlex Communications Coax



Connectors

Interface	Description	Part Number	Stock Code	VS\ Freq.		Coupling Nut	Inner Contact Attach		Finish' Body /Pin		ngth (mm)	W in	idth (mm)	We lb	ight (g)
7-16 DIN Female	Straight Jack	TC-400-716-FC	3190-376	<1.25:1	(2.5)	NA	Solder	Clamp	S/S	1.6	(41)	1.13	(28.7)	0.281	(127.5)
7-16 DIN Male	Straight Plug	TC-400-716-MC	3190-279	<1.25:1	(2.5)	Hex	Solder	Clamp	S/S	1.4	(36)	1.40	(35.6)	0.268	(121.6)
BNC Male	Straight Plug	TC-400-BM	3190-318	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/S	1.7	(43)	0.56	(14.2)	0.063	(28.6)
Mini-UHF	Straight Plug	TC-400-MUHF	3190-520	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.1	(28)	0.50	(12.7)	0.020	(9.1)
N Female	Straight Jack	TC-400-NFC	3190-299	<1.25:1	(2.5)	NA	Solder	Clamp	N/S	1.6	(41)	0.75	(19.1)	0.119	(54.0)
N Male	Straight Plug	SC-400-NM	3190-1454	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.5	(38)	0.75	(19.1)	0.090	(40.8)
	Straight Plug	TC-400-NM	3190-188	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.5	(38)	0.75	(19.1)	0.090	(40.8)
	Straight Plug	TC-400-NMC	3190-277	<1.25:1	(2.5)	Knurl	Solder	Clamp	N/G	1.5	(38)	0.75	(19.1)	0.121	(54.9)
	Straight Plug	TC-400-NMH-D	3190-552	<1.25:1	(10)	Hex/Knurl	Solder	Crimp	A/G	1.5	(38)	0.89	(22.6)	0.113	(51.3)
	Right Angle	TC-400-NMH-RA	3190-422*	<1.35:1	(6)	Hex	Solder	Crimp	S/G	1.8	(46)	1.25	(31.8)	0.130	(59.0)
	Right Angle	TC-400-NMH-RA-D	3190-2293*	<1.35:1	(6)	Hex/Knurl	Solder	Crimp	A/G	1.8	(46)	1.25	(31.8)	0.130	(59.0)
SMA Male	Straight Plug	TC-400-SM	3190-439	<1.25:1	(8)	Hex	Solder	Crimp	N/G	1.2	(29)	0.50	(12.7)	0.032	(14.5)
TNC Male	Straight Plug	TC-400-TM	3190-260	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/S	1.7	(43)	0.59	(15.0)	0.074	(33.6)
	Right Angle	TC-400-TM-RA	3190-442*	<1.35:1	(2.5)	Knurl	Solder	Crimp	N/G	1.7	(43)	0.59	(15.0)	0.085	(38.6)

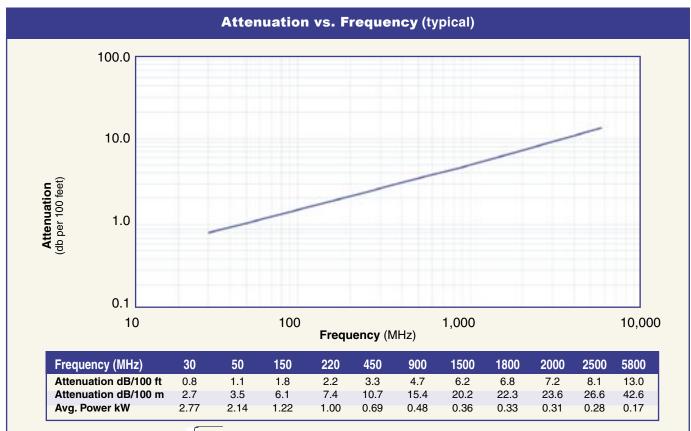
^{*} Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy **VSWR spec based on 3 foot cable with a connector pair *Available in bulk pack



Mechanic	al Specifica	tions	
Performance Property	Units	US	(metric)
Bend Radius: installation	in. (mm)	1.0	(25.4)
Bend Radius: repeated	in. (mm)	4.0	(101.6)
Bending Moment	ft-lb (N-m)	0.375	(0.51)
Weight	lb/ft (kg/m)	.088	(0.131)
Tensile Strength	lb (kg)	160	(72.6)
Flat Plate Crush	lb/in. (kg/mm)	20	(0.36)

Environmental Specifications					
Performance Property	۴	°C			
Installation Temperature Range	-40/+185	-40/+85			
Storage Temperature Range	-94/+185	-70/+85			
Operating Temperature Range	-40/+185	-40/+85			

Electri e	cal Specificat	tions	
Performance Property	Units	US	(metric)
Cutoff Frequency	GHz		16.2
Velocity of Propagation	%		85
Dielectric Constant	NA		1.38
Time Delay	nS/ft (nS/m)	1.20	(3.92)
Impedance	ohms		50
Capacitance	pF/ft (pF/m)	23.9	(78.40)
Inductance	uH/ft (uH/m)	0.060	(0.21)
Shielding Effectiveness	dB		>90
DC Resistance			
Inner Conductor	ohms/1000ft (/km)	1.07	(3.51)
Outer Conductor	ohms/1000ft (/km)	1.65	(5.4)
Voltage Withstand	Volts DC		2500
Jacket Spark	Volts RMS		8000
Peak Power	kW		16

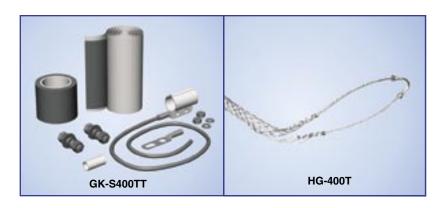


Calculate Attenuation = (0.146748) • √FMHz + (0.000312) • FMHz (interactive calculator available at http://www.timesmicrowave.com/cable_calculators)

Attenuation: VSWR=1.0; Ambient = +25°C (77°F) Power: VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F);

Sea Level; dry air; atmospheric pressure; no solar loading





Hardware Accessories

Туре	Part Number	Stock Code	Description
Ground Kit	GK-S400TT	GK-S400TT	Standard Grounding Kit (each)
Hoisting Grip	HG-400T	HG-400T	Laced Type (each)







Install Tools

Туре	Part Number	Stock Code	Description
Crimp Tool	HX-4	3190-200	Crimp Handle
Crimp Dies	Y1719	3190-202	.429" Hex Dies
Crimp Tool	CT-400/300	3190-666	Crimp tool for LMR 400 connectors
Crimp Rings	CR-400	3190-830	Crimp rings for TC/EZ-400 connectors (package of 10)
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement Bl	ade RB-01	3190-1609	Replacement blade for cutting tool