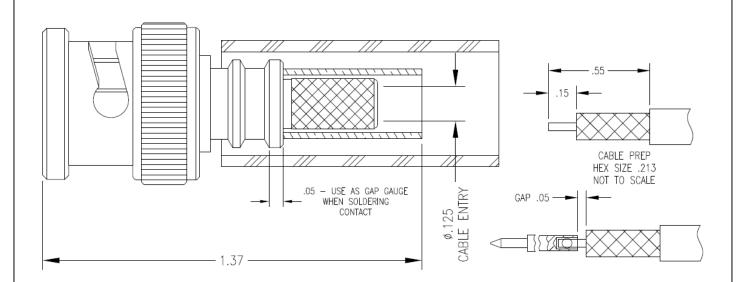
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MYS	REVISIO	IN DESC	RIPTION	DFTM	DATE	APPD	DATE
Α	RELEASED	FOR	PRODUCTION	n.n.n	11/7/13	J.D.B.	11/7/13



BODY	CONTACT
ALBALOY	GOLD/NI

1.0 PERFORMANCE

1.1 FREQUENCY RANGE: DC-4 GHz

1.2 NOMINAL IMPEDANCE: 50 OHMS

1.3 DWV: 500 VRMS @ 60 Hz (SEA LEVEL) 2.3 SPRING WASHER: BERYLLIUM COPPER 4.1 INTERFACE PER MIL-STD-348

1.4 TEMPERATURE RANGE: -65°C TO +165°C 2.4 CRIMP FERRULE: SOFT COPPER

2.0 MATERIALS

2.1 DIELECTRIC: PTFE

2.2 CONTACT: BRASS

2.5 OTHER METAL PARTS: BRASS

2.6 GASKET: SILICONE RUBBER

2.7 HEAT SHRINK: POLYOLEFIN THICK WALL

3.0 FINISHES: SEE TABLE

4.0 MECHANICAL

MATL:	UNLESS OTHERWISE SPECIFIED	DFTM.N.N.N	TIMES MICDONAVE SYSTEMS
		DATE 11/7/13	TIMES MICROWAVE SYSTEMS
	REMOVE ALL BURRS .005 MAX. BREAK MACHINE CORNERS .005 MAX. FILLET R.	CHKD. J. D. B.	TC-200-BM-X
USED DN: A	TOLERANCES ON DECIMALS	DATE 11/7/13	BNCM
	. XX \pm .03 . XXX \pm .005 ANGLES \pm 1° FRACTIONS \pm 1/32	APPD. J. D. B.	FOR LMR-200 CABLE
SCALE: N/A DWG. A	DO NOT SCALE DRAWING CODE 68999	DATE 11/7/13	1 of 1 SD3190-2883 A



SMA Male Connector Crimp/Solder Attachment for LMR-200, PE-C200



RF Connectors Technical Data Sheet

PE45040

Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry

- LMR-200, PE-C200 Interface Type
- Crimp/Solder Attachment
- 5/16 Inch Hex

Features

Gold Plated Brass Contact

Applications

• General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE45040 SMA male connector with crimp/solder attachment for LMR-200 and PE-C200 is part of our full line of RF components available for same-day shipping.

Our SMA male connector PE45040 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Mechanical Specifications

Size

 Length
 1.02 in [25.91 mm]

 Width/Dia.
 0.25 in [6.35 mm]

 Weight
 0.014 lbs [6.35 g]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	Teflon	
Body	Brass	Gold
Coupling Nut	Brass	Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Connector Crimp/Solder Attachment for LMR-200, PE-C200 PE45040

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



SMA Male Connector Crimp/Solder Attachment for LMR-200, PE-C200



RF Connectors Technical Data Sheet

PE45040

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Male Connector Crimp/Solder Attachment for LMR-200, PE-C200 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: SMA Male Connector Crimp/Solder Attachment for LMR-200, PE-C200 PE45040

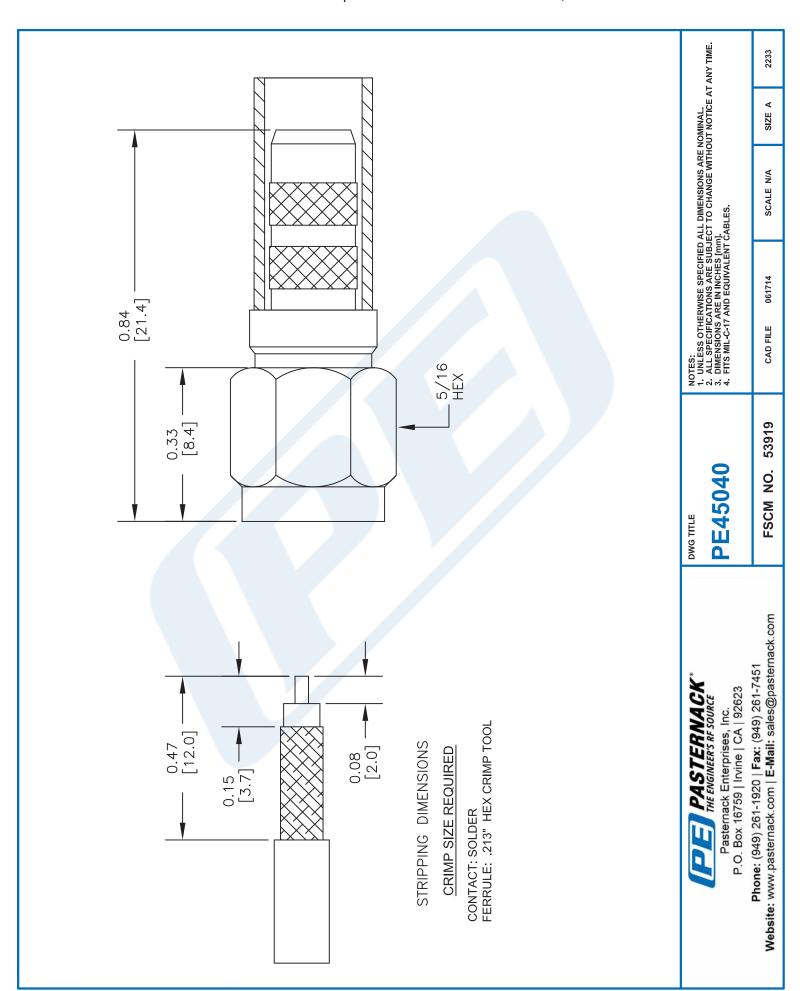
URL: https://www.pasternack.com/sma-male-standard-standard-lmr200-pe-c200-connector-pe45040-p.aspx

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.

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

PE45040 CAD Drawing

SMA Male Connector Crimp/Solder Attachment for LMR-200, PE-C200



TIMES MICROWAVE SYSTEMS

LMR®-200 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



- 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-200 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-200. 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-200 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-200 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-200 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-200	Outdoor	PE	Black	54022				
LMR-200-DB	Outdoor/Watertight	PE	Black	54089				
LMR-200-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54028				
LMR-200-FR-PV	C Indoor/OutdoorRiser CMF	R FRPVC	Black	54125				
LMR-200-PVC	General Purpose	PVC	Black	54216				
LMR-200-PVC-W	General Purpose	PVC	White	54201				
LMR-200-MA	Mobile Antennas	PVC	Black	54045				

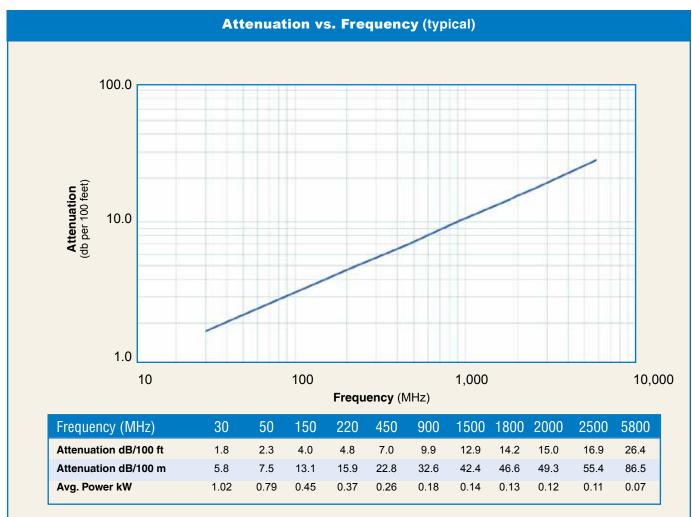
Construction Specifications							
Description	Material	In.	(mm)				
Inner Conductor	Solid BC	0.044	(1.12)				
Dielectric	Foam PE	0.116	(2.95)				
Outer Conductor	Aluminum Tape	0.121	(3.07)				
Overall Braid	Tinned Copper	0.144	(3.66)				
Jacket	(see table above)	0.195	(4.95)				





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					

Electri	Electrical Specifications							
Performance Property	Units	US	(metric)					
Velocity of Propagation	%		83					
Dielectric Constant	NA		1.45					
Time Delay	nS/ft (nS/m)	1.22	(4.02)					
Impedance	ohms	50						
Capacitance	pF/ft (pF/m)	24.5	(80.3)					
Inductance	uH/ft (uH/m)	0.061	(0.20)					
Shielding Effectiveness	dB	>90						
DC Resistance								
Inner Conductor	ohms/1000ft (/km)	5.36	(17.6)					
Outer Conductor	ohms/1000ft (/km)	4.9	(16.1)					
Voltage Withstand	Volts DC	1000						
Jacket Spark	Volts RMS	3000						
Peak Power	kW	2.5						



Calculate Attenuation =

(0.320900) • √FMHz + (0.000330) • 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

TIMES MICROWAVE SYSTEMS

LMR®-200 Flexible Low Loss Communications Coax



Connectors

Interface	Description	Part Number	Stock Code	VSV Freq.		Coupling Nut	Inner Contact Attach	Outer Contact Attach	Finish* Body /Pin	Le in	ngth (mm)	Wi in	dth (mm)	Weigh lb	nt (g)
BNC male	Straight Plug	TC-200-BM	3190-225	<1.25:1	(2.5)	Knurl	Solder	Crimp	S/G	1.7	(43.2)	0.56	(14.2)	0.045	(20.4)
Mini-UHF	Straight Plug	TC-200-MUHF	3190-444	<1.25:1	(2.5)	Knurl	Solder	Crimp	NG	1.1	(27.9)	0.45	(11.4)	0.015	(6.8)
N male	Straight Plug	EZ-200-NM	3190-1475	<1.25:1	(8)	Knurl	Spring Fit	Crimp	S/G	1.5	(38.1)	0.75	(19.1)	0.073	(33.1)
N male	Straight Plug	EZ-200-NMH-D	3190-1918	<1.25:1	(8)	Hex/Knurl	Spring Fit	Crimp	A/G	1.5	(38.1)	0.75	(19.1)	0.073	(33.1)
N male	Straight Plug	TC-200-NM	3190-224	<1.25:1	(2.5)	Knurl	Solder	Crimp	S/G	1.5	(38.1)	0.75	(19.1)	0.073	(33.1)
N male	Reverse Polarity	TC-200-NM-RP	3190-959	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.5	(38.1)	0.75	(19.1)	0.073	(33.1)
SMA male	Straight Plug	TC-200-SM	3190-612	<1.25:1	(8)	Hex	Solder	Crimp	SS/G	1.0	(25.4)	0.32	(8.1)	0.015	(6.8)
SMA male	Reverse Polarity	TC-200-SM-RP	3190-327	<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	EZ-200-TM	3190-1266	<1.25:1	(2.5)	Knurl	Spring Fit	Crimp	S/G	1.4	(35.6)	0.59	(15.0)	0.045	(20.4)
TNC male	Straight Plug	TC-200-TMC	3190-240	<1.25:1	(2.5)	Knurl	Solder	Clamp	S/G	1.7	(43.2)	0.59	(15.0)	0.045	(20.4)
TNC male	Reverse Polarity	EZ-200-TM-RP	3190-792	<1.25:1	(2.5)	Knurl	Spring Fit	Crimp	A/G	1.4	(35.6)	0.32	(8.1)	0.045	(20.4)
TNC female	Straight Jack	TC-200-TF	3190-263	<1.25:1	(2.5)	NA	Solder	Crimp	N/G	1.3	(33.0)	0.57	(14.5)	0.033	(15.0)
TNC female	Reverse Polarity	EZ-200-TF-RP	3190-793	<1.25:1	(2.5)	NA	Spring Fit	Crimp	A/G	1.3	(33.0)	0.57	(14.5)	0.033	(15.0)

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





Hardware Accessories

Туре	Part Number	Stock Code	Description
Ground Kit	GK-S200TT	GK-S200TT	Standard Ground Kit (each)







Install Tools

Туре	Part Number	Stock Code	Description
Crimp Tool	CT-240/200/195/100	3190-667	Crimp tool for LMR-100, 195, 200 and 240 connectors
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Deburr Tool	DBT-U	3192-001	Removes center conductor rough edges
Replacement Blade	RB-01	3190-1609	Replacement blade for cutting tool