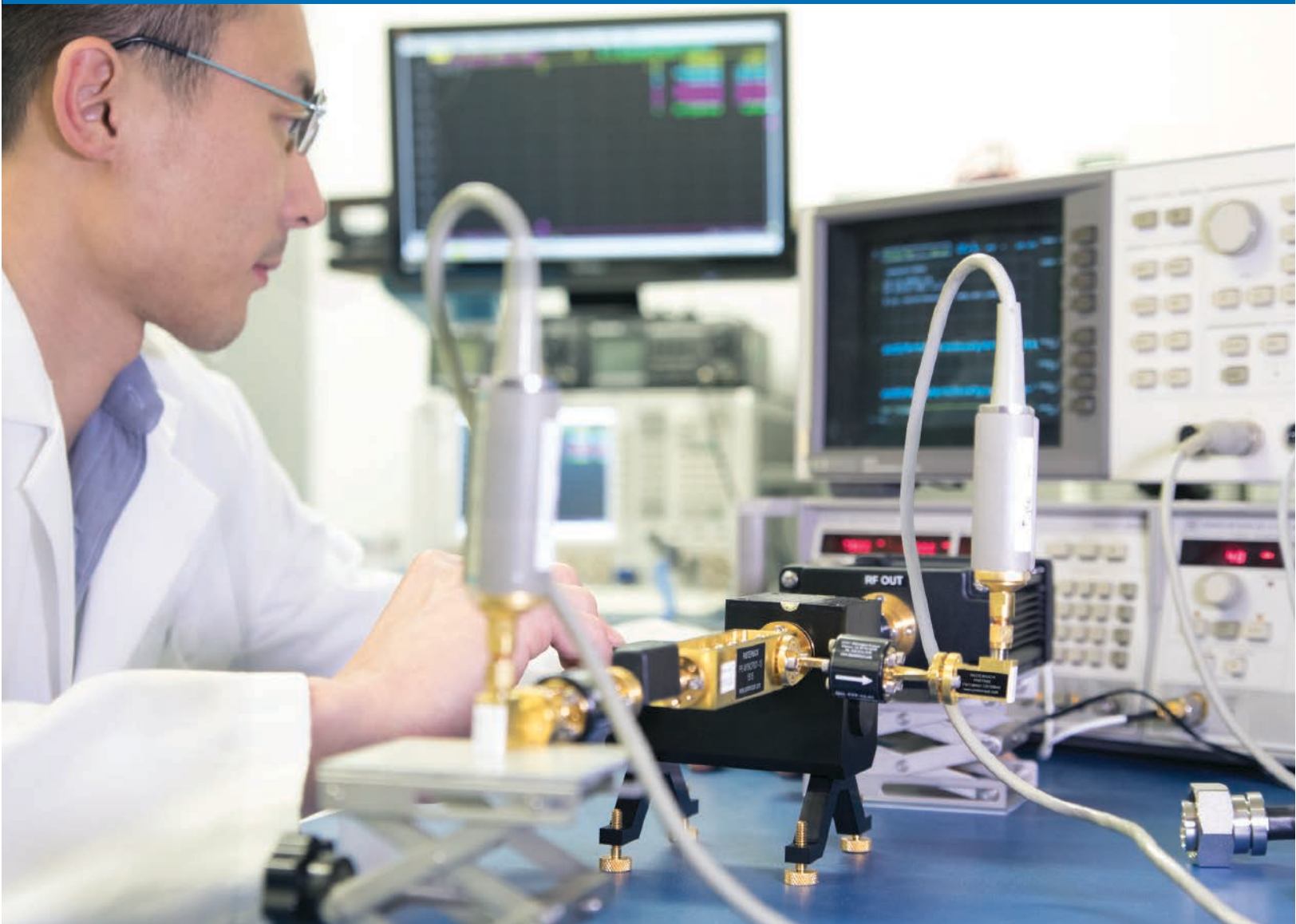


Pasternack

# RF Product Guide 2019

Power Dividers



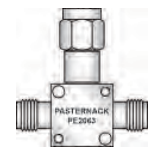
**Largest Selection ✓ Same-Day Shipping ✓ Expert Technical Support ✓**

866.727.8376 | [sales@pasternack.com](mailto:sales@pasternack.com)

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE

# POWER DIVIDERS

## 50 Ohm Resistive



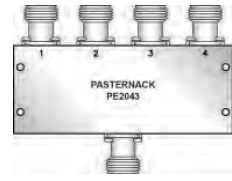
2.92mm



N

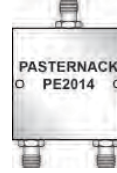
Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1-24	25-49	50-99	100+	ROW
2 WAY	0-6,000	SMA	Male	2 Watt	<a href="#">PE2082</a>	\$294.35	\$273.75	\$253.14	\$235.48	1
		2.92mm			<a href="#">PE2063</a>	\$401.69	\$373.57	\$345.45	\$321.35	2
	0-12,400	SMA		<a href="#">PE2067</a>	\$425.00	\$395.25	\$365.50	\$340.00	3	
		2.92mm		<a href="#">PE2064</a>	\$510.17	\$474.46	\$438.75	\$408.14	4	
	0-18,000	N	<a href="#">PE2066</a>	\$483.95	\$450.07	\$416.20	\$387.16	5		
			<a href="#">PE2068</a>	\$466.43	\$433.78	\$401.13	\$373.14	6		
		SMA	<a href="#">PE2084</a>	\$297.99	\$277.13	\$256.27	\$238.39	7		
	0-26,500	2.92mm	Female	<a href="#">PE2065</a>	\$687.89	\$639.74	\$591.59	\$550.31	8	
			Male	<a href="#">PE2083</a>	\$596.27	\$554.53	\$512.79	\$477.02	9	
Female										

## Reactive



Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
2 WAY	2-500	BNC	Female	1 Watt	<a href="#">PE2000</a>	\$211.12	See Web for Volume Pricing	10
		N			<a href="#">PE2044</a>	\$420.17		11
		SMA			<a href="#">PE2070</a>	\$398.42		12
		7/16 DIN			<a href="#">PE2003</a>	\$282.32		13
	10-1,000	N	<a href="#">PE2047</a>	\$416.15	14			
		376-2,500	<a href="#">PE20DV1041</a>	\$188.26	15			
	500-1,000	N	700 Watt	<a href="#">PE2032</a>	\$583.04	16		
			10 Watt	<a href="#">PE2028</a>	\$559.11	17		
	2,000-18,000	SMA	30 Watt	<a href="#">PE2017</a>	\$370.39	18		
			10 Watt	<a href="#">PE2081</a>	\$353.86	19		
	4,000-8,000	N	<a href="#">PE2036</a>	\$655.90	20			
			<a href="#">PE2078</a>	\$1,875.39	21			
	8,000-12,400	2.92mm	Female	<a href="#">PE2077</a>	\$1,499.69	22		
			Male	<a href="#">PE2037</a>	\$941.10	23		
3 WAY	376-2,200	N	Female	500 Watt	<a href="#">PE20DV1040</a>	\$232.71	24	
4 WAY	2-500	BNC	Female	1 Watt	<a href="#">PE2001</a>	\$371.18	25	
		N			<a href="#">PE2045</a>	\$694.68	26	
		BNC			<a href="#">PE2004</a>	\$552.16	27	
	10-1,000	N	10 Watt	<a href="#">PE2038</a>	\$887.25	28		
			30 Watt	<a href="#">PE2039</a>	\$861.12	29		
	500-1,000	SMA	10 Watt	<a href="#">PE2040</a>	\$907.61	30		
			30 Watt	<a href="#">PE2015</a>	\$566.69	31		
	1,000-2,000	N	10 Watt	<a href="#">PE2018</a>	\$494.43	32		
			30 Watt	<a href="#">PE2030</a>	\$735.59	33		
	2,000-4,000	SMA	10 Watt	<a href="#">PE2043</a>	\$817.25	34		
30 Watt			<a href="#">PE2024</a>	\$584.63	35			
6 WAY	1-175	BNC	Female	1 Watt	<a href="#">PE2006</a>	\$553.80	36	
8 WAY	2-500	BNC	Female	1 Watt	<a href="#">PE2002</a>	\$712.40	37	
		N			<a href="#">PE2046</a>	\$894.28	38	
12 WAY	2-500	BNC	Female	1 Watt	<a href="#">PE2005</a>	\$781.50	39	

# Wilkinson



See Our Website For Current Pricing & Real-Time Stock Availability!

Power Dividers

Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1 Pc. Price	See Web for Volume Pricing	ROW
2 WAY	500-1,000	SMA	Female	10 Watt	<a href="#">PE2008</a>	\$364.38	See Web for Volume Pricing	40
	500-2,000			<a href="#">PE20S0022</a>	\$393.75	41		
	617-2,700	4.1/9.5 Mini DIN		30 Watt	<a href="#">PE20DV1033</a>	\$295.23		42
		N		<a href="#">PE20DV1032</a>	\$246.10	43		
	690-2,700	SMA		10 Watt	<a href="#">PE2092</a>	\$118.11		44
		N		<a href="#">PE2088</a>	\$110.32	45		
	800-2,500	SMA		50 Watt	<a href="#">PE20S0025</a>	\$422.64		46
		N		10 Watt	<a href="#">PE2074</a>	\$252.18		47
	1,000-2,000	SMA		50 Watt	<a href="#">PE2033</a>	\$566.69		48
				10 Watt	<a href="#">PE2011</a>	\$314.26		49
	2,000-4,000	SMA		10 Watt	<a href="#">PE2034</a>	\$519.73		50
				<a href="#">PE2014</a>	\$277.05	51		
	2,000-8,000	SMA		<a href="#">PE2026</a>	\$405.53	52		
				N	30 Watt	<a href="#">PE2035</a>		\$625.26
4,000-8,000	SMA	Male	<a href="#">PE2080</a>	\$363.27	54			
7,000-12,400		Female	10 Watt	<a href="#">PE2020</a>	\$364.38	55		
8,000-18,000			<a href="#">PE2027</a>	\$632.39	56			
12,000-18,000			<a href="#">PE2023</a>	\$379.99	57			
3 WAY	2-200	BNC	Female	1 Watt	<a href="#">PE2007</a>	\$371.20	See Web for Volume Pricing	58
	690-2,700	N		10 Watt	<a href="#">PE2093</a>	\$170.79		59
		SMA		<a href="#">PE2090</a>	\$176.93	60		
	698-2,700	N		30 Watt	<a href="#">PE20DV1034A</a>	\$284.81		61
800-2,500	SMA	50 Watt	<a href="#">PE20S0019</a>	\$472.00	62			
500-1,000		SMA	30 Watt	<a href="#">PE2009</a>	\$467.47	63		
500-2,000	<a href="#">PE20S0024</a>			\$419.97	64			
4 WAY	690-2,700	N	Female	10 Watt	<a href="#">PE2094</a>	\$199.87	65	
		SMA			<a href="#">PE2089</a>	\$182.00	66	
	698-2,700	4.1/9.5 Mini DIN		30 Watt	<a href="#">PE20DV1037</a>	\$458.48	67	
		N			<a href="#">PE20DV1036</a>	\$475.72	68	
	800-2,500	SMA		<a href="#">PE20S0020</a>	\$397.67	69		
				10 Watt	<a href="#">PE2012</a>	\$459.71	70	
	2,000-8,000	SMA		30 Watt	<a href="#">PE2031</a>	\$569.29	71	
	2,000-18,000			10 Watt	<a href="#">PE2029</a>	\$1,061.89	72	
	4,000-8,000	N		10 Watt	<a href="#">PE2041</a>	\$817.25	73	
	7,000-12,400	SMA		<a href="#">PE2021</a>	\$480.95	74		
8 WAY	500-2,000	SMA	Female	30 Watt	<a href="#">PE2086</a>	\$270.92	75	
					<a href="#">PE20S0023</a>	\$546.33	76	
	690-2,700	N		10 Watt	<a href="#">PE2095</a>	\$329.45	77	
		SMA			<a href="#">PE2091</a>	\$275.68	78	
	698-2,700	4.1/9.5 Mini DIN		30 Watt	<a href="#">PE20DV1039</a>	\$816.23	79	
N		<a href="#">PE20DV1038</a>	\$659.93		80			
800-2,500	SMA	<a href="#">PE20S0021</a>	\$675.63	81				



Free Shipping Available via UPS Ground to USA & Canada



Technical Support (866) 727-8376



Same-Day Shipping, Even Custom Cable Assemblies

# 75 Ohm

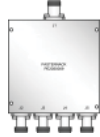
## Reactive



Ports	Freq. Range (MHz.)	Connector	Gender	Maximum Power	Model No	1-24	25-49	50-99	100+	ROW
2 WAY	2-500	BNC	Female	1 Watt	<a href="#">PE2048</a>	\$470.96	\$437.99	\$405.03	\$376.77	82
	10-1,000				<a href="#">PE2062</a>	\$232.92	\$216.62	\$200.31	\$186.34	83
4 WAY	2-500	BNC	Female	1 Watt	<a href="#">PE2049</a>	\$394.94	\$367.29	\$339.65	\$315.95	84
8 WAY	2-500	BNC	Female	1 Watt	<a href="#">PE2061</a>	\$708.33	\$658.75	\$609.16	\$566.66	85

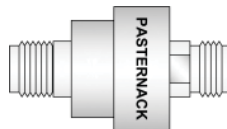
# RF COMBINERS

## Broadband



Frequency Range (GHz)	Ports	Connector 1	Connector 2	Power Rating	Isolation (dB)	Model No	1	2-4	5-9	10+	ROW
20 MHz - 1	2	N Female	N Female	500 W	10	<a href="#">PE20S0004</a>	\$2,239.84	\$2,150.25	\$2,060.65	\$1,971.06	1
		SMA Female	SMA Female	100 W	15	<a href="#">PE20S0001</a>	\$1,138.98	\$1,093.42	\$1,047.86	\$1,002.30	2
	4	N Female	N Female	300 W	12	<a href="#">PE20S0003</a>	\$2,250.72	\$2,160.69	\$2,070.66	\$1,980.63	3
		SMA Female	SMA Female	200 W		<a href="#">PE20S0002</a>	\$1,576.07	\$1,513.03	\$1,449.98	\$1,386.94	4
80 MHz - 1	4	N Female	N Female	500 W	-12	<a href="#">PE20S0006</a>	\$2,340.75	\$2,247.12	\$2,153.49	\$2,059.86	5
		SMA Female	SMA Female	200 W		<a href="#">PE20S0005</a>	\$1,576.07	\$1,513.03	\$1,449.98	\$1,386.94	6
500 MHz - 2.5	2	N Female	N Female	600 W	13	<a href="#">PE20S0007</a>	\$1,620.98	\$1,556.14	\$1,491.30	\$1,426.46	7
			SC Female			800 W	8	<a href="#">PE20S0011</a>	\$2,106.68	\$2,022.41	\$1,938.15
800 MHz - 2.5	2	N Female	SC Female	800 W	8	<a href="#">PE20S0010</a>	\$2,152.26	\$2,066.17	\$1,980.08	\$1,893.99	9
						SMA Female	200 W	10	<a href="#">PE20S0012</a>	\$2,135.06	\$2,049.66
800 MHz - 4.2	2	N Female	N Female	600 W	6	<a href="#">PE20S0011</a>	\$2,106.68	\$2,022.41	\$1,938.15	\$1,853.88	8
						SC Female	800 W	8	<a href="#">PE20S0010</a>	\$2,152.26	\$2,066.17
800 MHz - 2.5	4	N Female	N Female	600 W	6	<a href="#">PE20S0009</a>	\$2,295.74	\$2,203.91	\$2,112.08	\$2,020.25	11
						SMA Female	200 W	8	<a href="#">PE20S0013</a>	\$2,180.39	\$2,093.17
800 MHz - 4.2	4	SMA Female	SMA Female	200 W	8	<a href="#">PE20S0008</a>	\$1,855.06	\$1,780.86	\$1,706.66	\$1,632.45	13
						100 W	6	<a href="#">PE20S0014</a>	\$1,757.23	\$1,686.94	\$1,616.65
1 - 6	2	N Female	N Female	400 W	12	<a href="#">PE20S0015</a>	\$789.16	\$757.59	\$726.03	\$694.46	15
						SMA Female	100 W	10	<a href="#">PE20S0016</a>	\$957.60	\$919.30
2 - 6	4	N Female	N Female	400 W		<a href="#">PE20S0017</a>	\$2,353.13	\$2,259.00	\$2,164.88	\$2,070.75	16
		SMA Female	SMA Female	100 W	10	<a href="#">PE20S0016</a>	\$957.60	\$919.30	\$880.99	\$842.69	17

# ROTARY JOINTS



Connector A	Connector B	Max. Frequency (MHz.)	Input Power	VSWR	Model No	1-24	25-49	ROW
SMA	PCB	DC - 6,000	30 WATT	1.15:1	<a href="#">PE1401</a>	\$140.75	\$130.90	18
2.92mm	2.92mm	DC - 18,000		1.4:1	<a href="#">PE1400</a>	\$168.90	\$157.08	19
					<a href="#">PE1402</a>	\$157.64	\$146.61	20

# PASTERNAK ENTERPRISES -- REACH PRODUCT COMPLIANCE PROGRAM

## **What is REACH Compliance?**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 is commonly referred to as REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals). The REACH regulation became effective on June 1, 2007 to streamline and improve the former legislative framework for chemicals available in the European Union (EU) and European Economic Area (EEA) countries.

The objective of REACH is to improve protection of human health and the protection of the environment from the exposure to chemicals. REACH compliance is mandatory for products manufactured in, or imported into the European Union (EU).

As outlined by the REACH regulation, any organization manufacturing, importing, using or placing a substance, mixture, article or product on the EU market will be responsible for ensuring that the component substances are in compliance with REACH regulations.

## **Determining REACH Compliance of Pasternack Products:**

Pasternack Enterprises does not currently either manufacture or import any chemical substances into the EU on their own or in articles (products) in quantities of 1 ton or more per year. In addition, products imported by Pasternack Enterprises' customers do not contain chemical substances intended to be released during the normal and reasonably foreseeable conditions of the product's use as defined by the REACH regulation and existing guidance.

However, under REACH, there is an obligation to ensure that articles do not contain <0.1% by weight of Substances of Very High Concern (SVHCs). SVHCs are substances that may cause cancer or other serious health or environmental effects and thus face restriction or outright bans, and are listed in a regularly-updated 'Candidate list'. The current Candidate list can be downloaded from the European Chemicals Agency (ECHA) website:

[http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

For each part that has been found to comply with the REACH SVHC reporting requirements, we show an indication of compliance adjacent to the part number using this symbol:



All products displaying this symbol on our website are assured to contain no SVHCs as defined by the Candidate List displayed on the Pasternack REACH certificate. When you locate the product you need on our website, please click on the "Product ID or Part Number". You will see the "REACH symbol" for the specific part. Click on this symbol to view the Certificate of REACH Compliance (printable if needed) for the specific product as well as the applicable ECHA SVHC Candidate list Date.

## **Pasternack Enterprises - REACH Product Compliance Program:**

At Pasternack Enterprises, we recognize our responsibility as a worldwide supplier of RF, Microwave and Fiber Optic Products subject to the REACH regulations. We have completed a comprehensive effort internally and with our supply chain to determine the REACH compliance of our products. You will find our Reach Symbol adjacent to all products on our website that have been determined by Pasternack and our supply chain to contain less than 0.1% by weight of the REACH substances. You will also see the applicable ECHA SVHC Candidate List Date. "Please refer to our website at [www.Pasternack.com](http://www.Pasternack.com).

The Pasternack Enterprises REACH Product Compliance Program is implemented in accordance with Regulation No. 1907/2006 of the European Parliament and the Council of 18 December 2006. Pasternack has implemented a REACH compliance program to address this legislation. Pasternack Enterprises does not currently either manufacture or import any chemical substances into the EU on their own or in articles (products) in quantities of 1 ton or more per year. In addition, products imported by Pasternack Enterprises' customers do not contain chemical substances intended to be released during the normal and reasonably foreseeable conditions of the product's use as defined by the REACH regulation and existing guidance. Thus, Pasternack Enterprises does not currently have a direct REACH obligation to pre-register substances. Pasternack's REACH Product Compliance is determined by a certification from our supply chain. A Pasternack product is deemed to be REACH compliant when it does not contain Substances of Very High Concern (SVHCs) beyond the specified concentration limits of less than 0.1% by weight as outlined in REACH 1907/2006/EU regulation.

## **Need More Information?**

If you have questions regarding REACH Product Certification on Pasternack's products, please contact the Pasternack REACH Compliance Team via email at [REACH@Pasternack.com](mailto:REACH@Pasternack.com) or by calling Toll-Free within North America at 1-866-PASTERNAK (1-866-727-8376). International customers, please call +1-949-261-1920.



Free Shipping Available  
via UPS Ground  
to USA & Canada



Technical  
Support  
(866) 727-8376



Same-Day Shipping,  
Even Custom  
Cable Assemblies

# PASTERNAK ENTERPRISES ROHS COMPLIANCE PROGRAM

Lead-free solder is now available for all cable assemblies upon request or online at [www.Pasternack.com](http://www.Pasternack.com).

## **Our Commitment**

At Pasternack, we recognize our responsibility as an international supplier of RF, Microwave and Millimeter wave electronics products to maintain a comprehensive RoHS compliance program. We are fully committed to offering RoHS compliance on the majority of our products and posting accurate RoHS compliance status for all of our products. We have posted this data on our website so that it can be easily found for each part number within our on-line catalogue.

## **What is RoHS Compliance?**

The European Union set forth the RoHS (Restriction of Hazardous Substances) Directive to establish environmental guidelines and legislation to reduce the presence of six (6) materials deemed hazardous to the environment. To comply, products entering the EU must not have a homogeneous presence of these materials above the following levels by weight percentage

- Lead (Pb) < 0.1%
- Mercury (Hg) < 0.1%
- Cadmium (Cd) < 0.01%
- Hexavalent Chromium (CrVI) < 0.1%
- Polybrominated Biphenyls (PBB) < 0.1%
- Polybrominated Diphenyl Esters (PBDE) < 0.1%

## **Determining Pasternack RoHS Compliance**

All products displaying this symbol on our website have been certified as RoHS Compliant. Click on the symbol to view the Certificate of RoHS Compliance for that product.



## **Lead Free Cable Assemblies**

Many of Pasternack's cable assemblies are built with leaded solder. If so, the part will not be RoHS compliant and a certificate will not be found on the product page for that assembly. However, many of these assemblies can be brought into RoHS compliance through the use of Lead-Free solder. If the assembly you desire is not RoHS compliant, there may be a RoHS compliant version with a similar part number. If so, you will see an "LF" contained in the basic part number (example PE3067LF-24 is the lead free version of PE3067-24). Please note: the "LF" designation is used only when the base part number is not RoHS compliant. Many assemblies do not include "LF" and are compliant because they are only offered in a RoHS compliant configuration.

## **For More Information**

Please direct any questions to Pasternack Enterprises Technical Support via email at [TechSupport@Pasternack.com](mailto:TechSupport@Pasternack.com) or by calling Toll-Free within North America at 1-866-PASTERNAK (866-727-8376). International customers, please use +1-949-261-1920.

# MAILING LIST CHANGES

If you receive more than one RF Product Guide with the same name and address, please notify Pasternack and pass the RF Product Guide along to a friend. Also, if you do not require multiple copies to the same company address, contact a sales representative to verify and modify your mailing information. A forms-based communications method to add, delete or modify mailing information is available at [www.pasternack.com](http://www.pasternack.com). By clicking "Contact Us", and then clicking "Remove Name from Mailing List", you may complete the form to request a change to your mailing preferences. In addition, by clicking "RF Product Guide", and then clicking "Request a Printed RF Product Guide", you may add your contact information to our mailing list. Please note service opt-in and opt-out options located on the forms. Alternatively, you may mail, email, telephone or fax Pasternack your request.

## PLACING YOUR ORDER

► **By Telephone: 866-PASTERNAK (866-727-8376)  
US & Canada, or 949-261-1920**

Our friendly sales representatives are ready to serve you from 5:00am to 5:30pm Pacific Standard Time (PST), Monday through Friday. For the most efficient service, please have ready a list of quantities and part numbers and, if paying by credit card, your MasterCard, VISA, American Express or Discover card. Note: Calls may be recorded or monitored for quality and training purposes.

► **By Fax: 949-261-7451**

Our fax lines can be accessed 7 days a week, 24 hours a day. Orders received after 4:00pm PST will be promptly processed and shipped the next business day. Please include your daytime phone number and/or email address in case we have any questions about your order.

► **By Internet: [www.Pasternack.com](http://www.Pasternack.com)  
or Email: [sales@pasternack.com](mailto:sales@pasternack.com)**

Order online 7 days a week, 24 hours a day using our online ordering system. Just search for the items you want and add them to your shopping cart. Internet orders entered after 4:00 pm PST will be promptly processed and shipped the next business day.

► **By Mail: Simply Mail Your Order To:  
Pasternack Enterprises, Inc.  
17802 Fitch  
PO Box 16759  
Irvine, CA 92623-6759 USA**

International customers, please see "International Orders" below for additional information.

### Terms and Conditions of Sale:

The following from Pasternack's Binding Terms and Conditions of Sale are provided for your convenience. A complete documentation of the Binding Terms and Conditions of Sale may be found in the back of the RF Product Guide, or on Pasternack's website at <http://www.pasternack.com/t-terms-of-sale.aspx>. Any questions or clarifications may be answered by contacting Customer Service at (+1) 949-261-1920 or by any of the methods listed above.

### No Minimum Order Requirement

### Ground Freight is Free:

On UPS Ground orders, there is no charge for shipping for USA & Canada orders of \$100.00 or greater. Otherwise, shipping or freight charges and insurance will be paid by the customer. All sales are made FOB Point (as defined by the INCOTERMS 2000) in Irvine, CA USA. Shipping or freight charges from Pasternack's Irvine, CA factory are prepaid and added to the invoice or billed collect.

### Same-Day Shipment:

Same-day shipment will apply to orders received Monday through Friday, prior to 4:00pm PST.

- All UPS air and surface options
- All FedEx air options (with an approved account number)
- Most other shipping options, including DHL (with an approved account number) and USPS

### Counter-to-Counter Shipping:

For your urgent order requiring our fastest shipping method, we will place your order on the next available flight from Santa Ana-Orange County John Wayne International Airport (Airport code: SNA) to the destination you specify. Please call for details.

### Payment Terms:

Pasternack offers a number of convenient payment methods:

**For United States customers**, we offer check, money order, MasterCard, VISA, American Express, Discover, and C.O.D. as well as open account credit to qualified institutions and businesses. Payment must be made in US Dollars.

**For Canadian customers**, we offer all of the above payment options except C.O.D.

**For International customers**, see **International Orders**.

### Open Account Credit:

Net 30 Days terms are available to businesses, schools and agencies subject to credit approval. Approval can begin by submitting a completed Credit Application, which can be found online at:

[www.Pasternack.com/t-CreditApplication.aspx](http://www.Pasternack.com/t-CreditApplication.aspx)

### EFT/Wire Transfers:

Please contact us for details. We will inform you of the total amount which will include shipping charges and any applicable wire transfer fees. Orders will not be accepted until funds have been received in full.

WELLS FARGO BANK  
420 Montgomery St.  
San Francisco, CA 94104 USA  
Account Number: 4270 0000 0000 0000 1  
Routing Number: 121000248  
SWIFT Number: WFBUS6S

### International Orders:

In addition to the United States and its territories, Pasternack accepts international orders. All orders of international origin are exported from the US in accordance with the Export Administration Regulations. Diversion contrary to US Law is prohibited. Please see Pasternack's Binding Terms and Conditions of Sale for full details.

Pasternack has international distributors for the following countries:

**Africa:** Namibia, South Africa

**Asia-Pacific:** Australia, China PRC, India, Indonesia, Japan, Malaysia, New Zealand, Singapore, South Korea, Thailand

**Europe:** Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Kazakhstan, Luxembourg, Netherlands, Norway, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Switzerland, Turkey, United Kingdom

**Middle East:** Israel

**South America:** Brazil

To access their complete contact information, please see our International Distributors section in this RF Product Guide. (inside back cover)

### International Shipping Charges:

Shipping or freight charges and insurance will be paid by the customer. All sales are made FOB Point (as defined by the INCOTERMS 2000) in Irvine, CA USA. We ship orders by UPS, FedEx (with an approved account number), or DHL (with approved account number) with delivery in 2 to 3 days to most locations worldwide.

### International Taxes and Duties:

Customer is responsible for duties and taxes.



Free Shipping Available  
via UPS Ground  
to USA & Canada



Technical  
Support  
(866) 727-8376



Same-Day Shipping,  
Even Custom  
Cable Assemblies

# BINDING TERMS AND CONDITIONS OF SALE

The following are the terms and conditions ("Terms and Conditions") for the sale of products ("Products") by Pasternack Enterprises, Inc. ("Pasternack") to Pasternack's customers ("Customers"). Please read this agreement carefully. Any different or additional terms set forth in customer's purchase order or similar communication are objected to and shall not be binding on the company unless a separate agreement has been signed by an authorized officer of the company. By placing an order for products from the company, or by accepting delivery of the products described on the applicable packing slip, bill of lading and/or invoice received with the products, you agree to be bound by and accept these terms and conditions of sale.

## 1. ACCEPTANCE AND CANCELLATION OF ORDERS

All orders are subject to acceptance by Pasternack in writing by a duly authorized agent of Pasternack; any written acknowledgement of receipt of an order shall not, in and of itself, constitute such acceptance. Orders accepted and processed by Pasternack may not be cancelled by Customer except as covered by the Limited Warranty. All sales are final. Cable Assemblies and Non-Standard Products are also Non-Cancelable/Non-Refundable ("NC/NR"). Non-Standard Parts are defined as Products which are special orders, custom orders, orders for non-standard products, products not customarily in stock or orders for value-added products. In the event of cancellation or other withdrawal of an order for any reason and without limiting any other remedy which Pasternack may have as a result of such cancellation or other withdrawal, reasonable cancellation or restocking charges, which shall include all expenses then incurred and commitments made by Pasternack, shall be paid by Customer to Pasternack. Customer requests to reschedule are subject to acceptance by Pasternack in its sole discretion. Orders may not be rescheduled after the order has been submitted by Pasternack to the shipment carrier.

## 2. PRICES

Orders are billed at the prices (in US dollars) in effect at the time of shipment. Prices will be as specified by Pasternack and will be applicable for the period specified in Pasternack's quote. If no period is specified, quoted prices will be applicable for thirty (30) days. The website contains the most current pricing and is the price reference for orders. Pricing included in the catalog is for reference only and final pricing is determined by the published website price. Prices shown in the RF Product Guide (Catalog) and on the website are subject to change without notice. Prices are exclusive of taxes, impositions and other charges, including: sales, use, excise, value added and similar taxes or charges imposed by any government authority, international shipping charges, forwarding agent's and broker's fees, bank fees, consular fees, document fees and import duties.

## 3. TERMS OF PAYMENT

All payments must be in US Dollars, or will be converted to US Dollars using the available exchange rate at the time of purchase.

MasterCard, VISA, Discover, and American Express credit cards, purchase cards and major bank debit cards are accepted. Payment via net thirty (30) days is available to businesses, schools and agencies or as otherwise specified by Pasternack subject to credit approval.

### For International Orders

MasterCard, VISA, and American Express credit cards are accepted. Payment via open credit account with Net thirty (30) days may be established for companies having three U.S. references accepted to Pasternack. Prepaid Wire Transfer: You can wire the funds to our bank. We will contact you with the total amount, which will include shipping charges and a \$40 wire transfer fee. Orders will not be accepted until funds have been received in full and the Purchase Order (PO) has been received. Customer is responsible for sales, use, excise, value added and similar taxes or charges imposed by any government authority, international shipping charges, forwarding agent's and broker's fees, bank fees, consular fees, document fees and import duties.

## 4. SALES TAX

California residents are required to remit sales tax. Pasternack does not remit sales tax to states other than California. Any sales tax due that is not collected by Pasternack is the responsibility of the customer.

## 5. TOLERANCES

All coaxial cable assemblies displayed in the Pasternack catalog and website have a standard cable length tolerance of  $\pm 1.5\%$  or 3/8 inches (0.375"), whichever is greater. Cable Assemblies in excess of this tolerance factor are eligible for repair and/or replacement under the terms of the Pasternack Limited Warranty.

## 6. DELIVERY AND TITLE

Shipping or freight charges and insurance will be paid by the customer. All sales are made FCA Shipping Point (as defined by the INCOTERMS 2000) in Irvine, CA USA. Shipping or freight charges from Pasternack's Irvine, CA facility are prepaid and added to the invoice, or billed collect. Subject to Pasternack's right of stoppage in transit, delivery of the Products to the carrier will constitute delivery to Customer and title and risk of loss will pass to Customer. Pasternack will make reasonable efforts to initiate shipment and schedule delivery as close as possible to Customer's requested delivery date(s). Customer acknowledges that delivery dates provided by Pasternack are estimates only and that Pasternack will not be liable for failure to deliver on such dates. Selection of the carrier and delivery route will be made by Pasternack unless specifically designated by Customer. Pasternack reserves the right to make deliveries in installments. Delay in delivery of one installment will not entitle Customer to cancel any other installment(s). Delivery of any installment of Products within thirty (30) days after the date requested will constitute a

timely delivery. Delivery of a quantity that varies from the quantity specified shall not relieve Customer of the obligation to accept delivery and pay for the Products delivered.

## 7. PASTERNAK'S LIMITED WARRANTY

All products are covered by a LIMITED WARRANTY for a period of one (1) year from the date of shipment when purchased from Pasternack Enterprises, Inc. Customer must notify Pasternack within one (1) year from date of shipment of any defective product. An approved Return Material Authorization (RMA) number must first be obtained from Pasternack prior to the return of any merchandise to Pasternack for inspection under warranty. Shipping charges for all materials returned under this Limited Warranty are to be prepaid by the Customer. This warranty is limited to the original purchaser. Pasternack's liability arising out of any sale of products to Customer is expressly limited to either (1) Credit for the purchase price paid by Customer for such products (without interest), or (2) Repair and/or replacement of such products, found to be defective after inspection by Pasternack, and such remedies shall be exclusive and in lieu of all others. THIS WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESSED, IMPLIED OR STATUTORY. ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT ARE HEREBY DISCLAIMED. Further, no warranty will apply if the Product has been subject to misuse, neglect, accident or modification, or has been soldered or altered in any way.

All returns must be shipped to: Pasternack Enterprises, Inc.  
17802 Fitch  
Irvine, CA 92614 USA

## 8. LIMITATION OF LIABILITIES

In no event shall Pasternack be liable for any special, incidental or consequential damages of any nature including, but not limited to, damages resulting from loss of profit or revenue, recall costs, claims for service interruptions or failure to supply downtime, testing, installations or removal costs, costs of substitute products, property damage, personal injury, death or legal expenses. Customer's recovery from Pasternack for any claim shall not exceed the purchase price paid by Customer for the goods, irrespective of the nature of the claim, whether in warrant, contract or otherwise. CUSTOMER SHALL INDEMNIFY, DEFEND AND HOLD PASTERNAK HARMLESS FROM ANY CLAIMS brought by any party regarding products supplied by Pasternack and incorporated into the customer's product.

## 9. STATEMENTS AND ADVICE

If statements or advice, technical or otherwise, are offered or given to Customer, such statements or advice will be deemed to be given as an accommodation to Customer and without charge and Pasternack shall have no responsibility or liability for the content or use of such statements or advice.

## 10. EXPORT CONTROL AND EMBARGOES

Products purchased or received under these Terms and Conditions are subject to export control and economic sanctions laws, restrictions, regulations and orders of the United States. Customer agrees to comply with all applicable export control laws, restrictions and regulations of the United States and shall not export, or transfer for the purpose of re-export, any product to any embargoed country or region, including but not limited to Cuba, the Crimean Region of Ukraine, Iran, North Korea, Sudan, and Syria, or to any denied, blocked, or designated person or entity as mentioned in any such United States or foreign law or regulation. Customer represents and warrants that it is not on the Denied Persons, Specially Designated Nationals or Debarred Persons List (as identified by the U.S. Treasury Office of Foreign Asset Control (OFAC) and by the U.S. Department of Commerce, Bureau of Industry and Security (BIS), or any other United States list of prohibited persons; is not owned or controlled by any person that is on one of those lists, or is otherwise prohibited by United States or other law from purchasing the products or services hereunder. Customer shall be solely responsible to obtain any license to export, re-export or import as may be required. Customer also agrees that it will not use these products in connection with the proliferation of weapons of mass destruction, including missiles, nuclear, chemical or biological weapons.

## 11. GENERAL

The Terms and Conditions may not be modified or cancelled without Pasternack's written agreement. Accordingly, goods furnished and services rendered by Pasternack are sold only on the terms and conditions stated herein. The Terms and Conditions will be governed by and construed in accordance with the laws of the State of California and the applicable laws of the United States of America. If Customer chooses to access the Pasternack website from outside the United States, Customer does so on their own initiative and is responsible for compliance with all applicable local laws.

## 12. INTELLECTUAL PROPERTY

The drawings, text, product depictions, logos, content, product descriptions, and organization and taxonomy of Pasternack's RF Product Guide and website and of the described content within the RF Product Guide and website are proprietary to Pasternack and protected by intellectual property laws, including but not limited to United States Copyright law and United States Trademark law. Pasternack owns copyrights in these referenced works as well as the selection, arrangement, coordination and structure of the arranged content and works within their RF Product Guide and website. Use of the RF Product Guide/website does not give you any right to modify, reproduce, transmit, publish, publicly display, adapt, or create derivative works or in any way exploit any of the materials and content of Pasternack's RF Product Guide or website.

**WARNING:** Products in this catalog can expose you to chemicals including phthalates, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). For specific products impacted, please visit [www.pasternack.com](http://www.pasternack.com).



# PART NUMBER INDEX

Note: C/R stands for the Column and/or Row location of the specific product on a given page.

Model No.	Page	C/R	Model No.	Page	C/R	Model No.	Page	C/R	Model No.	Page	C/R	Model No.	Page	C/R	Model No.	Page	C/R
PE15A5005	50	93	PE19XP5013	200	84	PE2035	181	53	PE2220-10	167	91	PE2ZCP1067	164	3	PE364-48		Web
PE15A5006	51	1	PE19XR1000	199	59	PE2036	180	20	PE2220-20	167	91	PE2ZCP1068	164	8	PE364LF		Web
PE15A5007	51	6	PE19XR1002	199	63	PE2037	180	21	PE2220-30	167	91	PE2ZCP1069	164	20	PE365	84	88
PE15A5008	51	5	PE19XR1003	199	60	PE2038	180	28	PE2221-10	167	92	PE2ZCP1070	164	14	PE367-48		Web
PE15A5009	51	6	PE19XR1004	199	62	PE2039	180	29	PE2221-20	167	92	PE2ZCP1071	164	4	PE369	77	31
PE15A5010	50	82	PE19XR1004	199	62	PE2040	180	30	PE2221-30	167	92	PE2ZCP1072	164	9	PE370		Web
PE15A5011	49	20	PE19XR1006	199	64	PE2041	181	73	PE2222-10	167	93	PE2ZCP1073	165	21	PE371	77	22
PE15A5013	50	76	PE19XR1006	199	64	PE2042	180	34	PE2222-20	167	93	PE2ZCP1074	164	15	PE373	76	8
PE15A5014	51	94	PE1V11002	Web		PE2043	180	34	PE2222-30	167	94	PE2ZCP1075	164	5	PE3000		Web
PE15A5015	49	95	PE1V11004	Web		PE2044	180	11	PE2223-10	167	94	PE2ZCP1076	164	20	PE3003		Web
PE15A5016	49	52	PE1V11006	Web		PE2045	180	26	PE2223-20	167	94	PE2ZCP1077	209	10	PE3006		Web
PE15A5017	49	29	PE1V11007	Web		PE2046	180	38	PE2223-30	167	95	PE2PB1001	209	11	PE3010		Web
PE15A5018	51	99	PE1V11008	Web		PE2047	180	14	PE2224-10	167	95	PE2PB1002	209	8	PE3013	89	74
PE15A5019	49	53	PE1V11009	Web		PE2048	182	82	PE2224-20	165	27	PE2PB1003	209	9	PE3013LF	89	75
PE15A5020	50	85	PE1V11012	Web		PE2049	182	84	PE2224-30	165	32	PE2V000	196	9	PE3015		Web
PE15A5021	49	62	PE1V11013	Web		PE2050	167	1	PE2225-10	167	1	PE2V001	196	10	PE3020	79	68
PE15A5022	49	45	PE1V11014	Web		PE2051	167	2	PE2225-20	167	28	PE2V002	196	11	PE3023		Web
PE15A5023	51	7	PE1V11015	Web		PE2052	167	3	PE2225-30	167	3	PE2V003	196	11	PE3025	79	75
PE15A5024	49	38	PE1V11019	Web		PE2053	Web		PE2230-30	165	33	PE2V004	196	12	PE3025LF	79	76
PE15A5025	49	39	PE1V11021	Web		PE2054	Web		PE2231-10	165	31	PE2V005	Web		PE3034		Web
PE15A5026	49	35	PE1V11025	Web		PE2055	Web		PE2232-30	165	36	PE2V006	Web		PE3038	80	89
PE15A5027	49	24	PE1V11027	Web		PE2056	Web		PE2233-30	165	36	PE2V007	Web		PE3038LF	80	90
PE15A5028	50	70	PE1V12000	Web		PE2056A	Web		PE2234-30	165	35	PE2V008	Web		PE3041		Web
PE15A5028F	50	71	PE1V12003	Web		PE2057	Web		PE2235-30	165	34	PE2V009	Web		PE3042	82	21
PE15A5029	50	72	PE1V12005	Web		PE2058	Web		PE2236-30	165	30	PE2V010	Web		PE3053	79	75
PE15A5029F	50	73	PE1V12005	Web		PE2059	Web		PE2237-10	165	25	PE2V011	Web		PE3057	79	70
PE15A5030	49	16	PE1V12006	Web		PE2061	Web		PE2237-20	165	23	PE2V012	Web		PE3047LF	79	71
PE15A5030F	49	17	PE1V12008	Web		PE2062	Web		PE2237-6	165	23	PE2V013	Web		PE3050		Web
PE15A5031	50	74	PE1V13000	Web		PE2063	Web		PE2238-20	165	23	PE2V014	Web		PE3051		Web
PE15A5031F	50	75	PE1V13001	Web		PE2064	Web		PE2238-30	165	51	PE2V015	196	13	PE3052		Web
PE15A5032	50	77	PE1V13002	Web		PE2065	Web		PE2238-6	165	48	PE2V016	196	14	PE3054		Web
PE15A5032F	50	78	PE1V13004	Web		PE2066	Web		PE2239-30	165	29	PE2V017	196	15	PE3056		Web
PE15A5033	49	27	PE1V13007	Web		PE2067	Web		PE2240-30	164	16	PE2V018	196	16	PE3058	101	23
PE15A5033F	49	28	PE1V13007	Web		PE2068	Web		PE2241-20	165	19	PE2V019	Web		PE3058		Web
PE15A5034	49	31	PE1V14000	Web		PE2069	Web		PE2242-06	165	39	PE20DV1026	201	5	PE3061	79	74
PE15A5034F	49	30	PE1V14001	Web		PE2070	Web		PE2242-10	165	41	PE20DV1027	201	8	PE3062	83	38
PE15A5035	50	83	PE1V14002	Web		PE2071	Web		PE2242-20	165	41	PE20DV1028	201	6	PE3062LF	83	39
PE15A5035F	50	84	PE1V14004	Web		PE2072	Web		PE2242-30	165	43	PE20DV1029	201	9	PE3067	84	47
PE15A5036	50	89	PE1V14005	Web		PE2073	Web		PE2242A-06	165	40	PE20DV1030	201	7	PE3071	79	61
PE15A5036F	50	90	PE1V14007	Web		PE2074	Web		PE2242A-10	165	42	PE20DV1031	201	10	PE3073		Web
PE15A5037	50	90	PE1V14007	Web		PE2076	Web		PE2242A-30	165	44	PE20DV1032	181	43	PE3075	79	75
PE15A5037F	50	91	PE1V14008	Web		PE2077	Web		PE2243-10	165	45	PE20DV1033	181	42	PE3075LF	79	66
PE15A5038	51	96	PE1V14009	Web		PE2078	Web		PE2243-20	165	45	PE20DV1034	Web		PE3078		Web
PE15A5038F	51	97	PE1V14010	Web		PE2079	Web		PE2243-30	165	45	PE20DV1034A	181	61	PE3078LF	92	62
PE15A5039	50	87	PE1V15000	Web		PE2080	Web		PE2243-6	165	45	PE20DV1035	181	68	PE3079		Web
PE15A5040	50	80	PE1V13000	Web		PE2081	Web		PE2244-10	165	41	PE20DV1036	181	68	PE3080		Web
PE15A5041	50	80	PE1V13000	Web		PE2082	Web		PE2244-20	165	41	PE20DV1037	181	67	PE3081		Web
PE15A5042	50	86	PE1V13007	Web		PE2083	Web		PE2244-30	165	41	PE20DV1038	181	80	PE3081LF	79	67
PE15A5043	51	12	PE1V13008	Web		PE2084	Web		PE2245-10	165	45	PE20DV1038A	Web		PE3082		Web
PE15A5044	51	11	PE18T1000	72	26	PE2085	Web		PE2245-20	165	45	PE20DV1039	181	79	PE3083		Web
PE15A5047	51	98	PE18T1002	72	12	PE2086	Web		PE2245-30	165	45	PE20DV1040	180	24	PE3085		Web
PE15A5048	49	50	PE1V11000	196	17	PE2087	Web		PE2246-10	165	7	PE20DV1041	180	15	PE3087	79	56
PE15A5049	51	8	PE1V11001	196	18	PE2088	Web		PE2246-20	165	7	PE20DV1041	180	15	PE3087	79	56
PE15A5050	51	19	PE1V11002	196	18	PE2089	Web		PE2246-30	165	7	PE20DV1042	180	15	PE3087	79	56
PE15A5051	49	57	PE1V11010	197	20	PE2090	Web		PE2247-10	165	7	PE20DV1043	180	15	PE3087	79	56
PE15A5052	51	10	PE1V11011	197	21	PE2091	Web		PE2247-20	165	7	PE20DV1044	180	15	PE3087	79	56
PE15A5053	51	9	PE1V11016	197	22	PE2092	Web		PE2247-30	165	7	PE20DV1045	180	15	PE3087	79	56
PE15A5054	49	65	PE1V11017	197	23	PE2093	Web		PE2248-10	165	7	PE20DV1046	180	15	PE3087	79	56
PE15A5990	51	15	PE1V11018	197	24	PE2094	Web		PE2248-20	165	7	PE20DV1047	180	15	PE3087	79	56
PE15A6002	46	33	PE1V11020	197	25	PE2095	Web		PE2248-30	165	7	PE20DV1048	180	15	PE3087	79	56
PE15A6007	46	35	PE1V11022	197	26	PE2096	Web		PE2249-10	165	7	PE20DV1049	180	15	PE3087	79	56
PE15A6008	46	34	PE1V11023	197	27	PE2097	Web		PE2249-20	165	7	PE20DV1050	180	15	PE3087	79	56
PE15A6015	46	37	PE1V11024	197	28	PE2098	Web		PE2249-30	165	7	PE20DV1051	180	15	PE3087	79	56
PE15A6015	46	34	PE1V11026	197	29	PE2100	Web		PE2250-10	165	37	PE2ZCP1011	166	75	PE3088		Web
PE15A63000	47	56	PE1V12001	198	32	PE2201-6	165	52	PE2250-20	165	37	PE2ZCP1012	166	75	PE3088		Web
PE15A63001	47	59	PE1V12002	198	33	PE2201-10	165	52	PE2250-30	165	37	PE2ZCP1013	166	77	PE3088		Web
PE15A63002	47	69	PE1V12007	198	34	PE2201-20	165	52	PE2251-10	166	52	PE2ZCP1014	167	87	PE3088		Web
PE15A63003	47	70	PE1V13003	198	35	PE2201-30	165	52	PE2251-20	166	52	PE2ZCP1015	167	87	PE3088		Web
PE15A63004	48	8	PE1V13006	198	36	PE2202-10	166	55	PE2251-30	166	52	PE2ZCP1016	167	88	PE3088		Web
PE15A63005	48	82	PE1V13008	198	37	PE2202-10	166	55	PE2252-10	166	55	PE2ZCP1017	167	92	PE3088		Web
PE15A63006	48	83	PE1V13009	198	38	PE2202-20	166	55	PE2252-20	166	55	PE2ZCP1018	167	80	PE3088		Web
PE15A63007	48	95	PE1V13010	198	39	PE2202-30	166	55	PE2252-30	166	55	PE2ZCP1019	167	80	PE3088		Web
PE15A63008	48	99	PE1V13011	198	40	PE2203-10	166	58	PE2253-10	166	74	PE2ZCP1020	167	74	PE3088		Web
PE15A7000	51	14	PE1V13012	198	41	PE2203-20	166	58	PE2253-20	166	74	PE2ZCP1021	167	72	PE3088		Web
PE15A8000	45	20	PE1V13013	198	42	PE2203-30	166	58	PE2253-30	166	74	PE2ZCP1022	167	8	PE3088		Web
PE15A8001	45	17	PE1V13014	198	43	PE2204-10	166	59	PE2254-10	166	22	PE2ZCP1023	167	8	PE3088		Web
PE15A8002	46	23	PE1V13015	198	44	PE2204-20	166	59	PE2254-20	166	22	PE2ZCP1024	167	8	PE3088		Web
PE15A8005	46	24	PE1V14003	197	30	PE2204-30	166										

# 50-OHM CONVERSION TABLE

## (dBm - volts- watts)

dBm	V	Po
+53	100.0	200W
+50	70.7	100W
+49	64.0	80W
+48	58.0	64W
+47	50.0	50W
+46	44.5	40W
+45	40.0	32W
+44	32.5	25W
+43	32.0	20W
+42	28.0	16W
+41	26.2	12.5W
+40	22.5	10W
+39	20.0	8W
+38	18.0	6.4W
+37	16.0	5W
+36	14.1	4W
+35	12.5	3.2W
+34	11.5	2.5W
+33	10.0	2W
+32	9.0	1.6W
+31	8.0	1.25W
+30	7.10	1.0W
+29	6.40	800 mW
+28	5.80	640 mW
+27	5.00	500 mW
+26	4.45	400 mW
+25	4.00	320 mW
+24	3.55	250 mW
+23	3.20	200 mW
+22	2.80	160 mW
+21	2.52	125 mW
+20	2.25	100 mW
+19	2.00	80 mW
+18	1.80	64 mW
+17	1.60	50 mW
+16	1.41	40 mW
+15	1.25	32 mW
+14	1.15	25 mW
+13	1.00	20 mW
+12	0.90	16 mW
+11	0.80	12.5 mW
+10	0.71	10 mW
+9	0.64	8 mW
+8	0.58	6.4 mW
+7	0.50	5 mW
+6	0.45	4 mW
+5	0.40	3.2 mW
+4	0.36	2.5 mW
+3	0.32	2.0 mW

dBm	V	Po
+2	0.28	1.6 mW
+1	0.25	1.25 mW
0	0.23	1.0 mW
-1	0.20	.80 mW
-2	0.18	.64 mW
-3	0.16	.50 mW
-4	0.14	.40 mW
-5	0.13	.32 mW
-6	0.12	.25 mW
-7	0.10	.20 mW
-8	0.09	.16 mW
-9	0.08	.125 mW
-10	0.07	.10 mW
-11	0.06	
-12	0.06	
-13	0.05	
-14	0.05	
-15	0.04	
-16	0.0355	
dBm	mV	Po
-17	31.5	
-18	28.5	
-19	25.1	
-20	22.5	.01 mW
-21	20.0	
-22	17.9	
-23	15.9	
-24	14.1	
-25	12.8	
-26	11.5	
-27	10.0	
-28	8.9	
-29	8.0	
-30	7.1	.001 mW
-31	6.25	
-32	5.8	
-33	5.0	
-34	4.5	
-35	4.0	
-36	3.5	
-37	3.2	
-38	2.85	
-39	2.5	
-40	2.25	.1 $\mu$ W
-41	2.0	
-42	1.8	
-43	1.6	
-44	1.4	
-45	1.25	

dBm	mV	Po
-46	1.18	
-47	1.0	
-48	0.9	
-49	0.8	
-50	0.71	.01 $\mu$ W
-51	0.64	
-52	0.57	
-53	0.5	
-54	0.45	
-55	0.4	
-56	0.351	
-57	0.32	
-58	0.286	
-59	0.251	
-60	0.225	.001 $\mu$ W
-61	0.2	
-62	0.18	
-63	0.16	
-64	0.141	
dBm	$\mu$ V	Po
-65	128	
-66	115	
-67	100	
-68	90	
-69	80	
-70	71	.1 nW
-71	65	
-72	58	
-73	50	
-74	45	
-75	40	
-76	35	
-77	32	
-78	29	
-79	25	
-80	22.5	.01 nW
-81	20	
-82	18	
-83	16	
-84	11.1	
-85	12.9	
-86	11.5	
-87	10.0	
-88	9.0	
-89	8.0	
-90	7.1	.001 nW
-91	6.1	
-92	5.75	
-93	5.0	

dBm	$\mu$ V	Po
-94	4.5	
-95	4.0	
-96	3.51	
-97	3.2	
-98	2.9	
-99	2.51	
-100	2.25	.1 pW
-101	2.0	
-102	1.8	
-103	1.6	
-104	1.41	
-105	1.27	
-106	1.18	
dBm	nV	Po
-107	1000	
-108	900	
-109	800	
-110	710	.01 pW
-109	640	
-112	580	
-113	500	
-114	450	
-115	400	
-116	355	
-117	825	
-118	285	
-119	251	
-120	225	.001 pW
-121	200	
-122	180	
-123	160	
-124	141	
-125	128	
-126	117	
-127	100	
-128	90	
-129	80	
-130	71	.1 fW
-131	61	
-132	58	
-133	50	
-134	45	
-135	40	
-136	35	
-137	33	
-138	29	
-139	25	
-140	23	.01 fW



Free Shipping Available  
via UPS Ground to  
USA & Canada



Technical  
Support  
(866) 727-8376



Same-Day Shipping,  
Even Custom  
Cable Assemblies

# RETURN LOSS CONVERSION TABLE

Return Loss (dBm)	VSWR
46.064	1.01
40.086	1.02
36.607	1.03
34.151	1.04
32.256	1.05
30.714	1.06
29.417	1.07
28.299	1.08
27.318	1.09
26.444	1.10
25.658	1.11
24.943	1.12
24.289	1.13
23.686	1.14
23.127	1.15
22.607	1.16
22.120	1.17
21.664	1.18
21.234	1.19
20.828	1.20
20.443	1.21
20.079	1.22
19.732	1.23
19.401	1.24
19.085	1.25
18.783	1.26
18.493	1.27
18.216	1.28
17.949	1.29
17.690	1.30
17.445	1.31
17.207	1.32
16.977	1.33
16.755	1.34
16.540	1.35
16.332	1.36
16.131	1.37
15.936	1.38
15.747	1.39
15.563	1.40
15.385	1.41
15.211	1.42
15.043	1.43
14.879	1.44
14.719	1.45
14.564	1.46
14.412	1.47
14.264	1.48
14.120	1.49
13.979	1.50

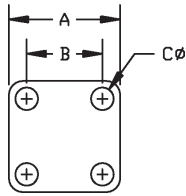
Return Loss (dBm)	VSWR
13.842	1.51
13.708	1.52
13.577	1.53
13.449	1.54
13.324	1.55
13.201	1.56
13.081	1.57
12.964	1.58
12.849	1.59
12.736	1.60
12.625	1.61
12.518	1.62
12.412	1.63
12.308	1.64
12.207	1.65
12.107	1.66
12.009	1.67
11.913	1.68
11.818	1.69
11.725	1.70
11.634	1.71
11.545	1.72
11.457	1.73
11.370	1.74
11.285	1.75
11.202	1.76
11.120	1.77
11.039	1.78
10.960	1.79
10.881	1.80
10.804	1.81
10.729	1.82
10.654	1.83
10.581	1.84
10.509	1.85
10.437	1.86
10.367	1.87
10.298	1.88
10.230	1.89
10.163	1.90
10.097	1.91
10.032	1.92
9.968	1.93
9.904	1.94
9.842	1.95
9.780	1.96
9.720	1.97
9.660	1.98
9.601	1.99
9.542	2.00

Return Loss (dBm)	VSWR
9.485	2.01
9.428	2.02
9.372	2.03
9.317	2.04
9.262	2.05
9.208	2.06
9.155	2.07
9.103	2.08
9.051	2.09
8.999	2.10
8.949	2.11
8.899	2.12
8.849	2.13
8.800	2.14
8.752	2.15
8.705	2.16
8.657	2.17
8.611	2.18
8.565	2.19
8.519	2.20
8.474	2.21
8.430	2.22
8.386	2.23
8.342	2.24
8.299	2.25
8.257	2.26
8.215	2.27
8.173	2.28
8.138	2.29
8.091	2.30
8.051	2.31
8.011	2.32
7.972	2.33
7.933	2.34
7.894	2.35
7.856	2.36
7.818	2.37
7.781	2.38
7.744	2.39
7.707	2.40
7.671	2.41
7.635	2.42
7.599	2.43
7.564	2.44
7.529	2.45
7.494	2.46
7.460	2.47
7.426	2.48
7.393	2.49
7.360	2.50

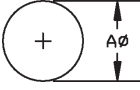
Return Loss (dBm)	VSWR
7.327	2.51
7.294	2.52
7.262	2.53
7.230	2.54
7.198	2.55
7.167	2.56
7.135	2.57
7.105	2.58
7.074	2.59
7.044	2.60
7.014	2.61
6.984	2.62
6.954	2.63
6.925	2.64
6.896	2.65
6.867	2.66
6.839	2.67
6.811	2.68
6.783	2.69
6.755	2.70
6.728	2.71
6.700	2.72
6.673	2.73
6.646	2.74
6.620	2.75
6.594	2.76
6.567	2.77
6.541	2.78
6.516	2.79
6.490	2.80
6.465	2.81
6.440	2.82
6.415	2.83
6.390	2.84
6.366	2.85
6.341	2.86
6.317	2.87
6.293	2.88
6.270	2.89
6.246	2.90
6.223	2.91
6.200	2.92
6.177	2.93
6.154	2.94
6.131	2.95
6.109	2.96
6.086	2.97
6.064	2.98
6.042	2.99
6.021	3.00

Return Loss (dBm)	VSWR
5.999	3.01
5.970	3.02
5.956	3.03
5.935	3.04
5.914	3.05
5.893	3.06
5.872	3.07
5.852	3.08
5.832	3.09
5.811	3.10
5.791	3.11
5.771	3.12
5.751	3.13
5.732	3.14
5.712	3.15
5.693	3.16
5.674	3.17
5.654	3.18
5.635	3.19
5.617	3.20
5.598	3.21
5.579	3.22
5.561	3.23
5.542	3.24
5.524	3.25
5.506	3.26
5.488	3.27
5.470	3.28
5.452	3.29
5.435	3.30
5.417	3.31
5.400	3.32
5.383	3.33
5.365	3.34
5.348	3.35
5.331	3.36
5.315	3.37
5.298	3.38
5.281	3.39
5.265	3.40
5.248	3.41
5.232	3.42
5.216	3.43
5.200	3.44
5.184	3.45
5.168	3.46
5.152	3.47
5.137	3.48
5.121	3.49
5.105	3.50

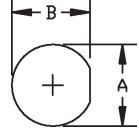
# MOUNTING HOLES



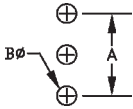
CODE	A	B	C
A01	.500	.340	.102
A02	.687	.500	.109
A03	.687	.500	#3-56 TAP
A04	.687	.500	.125
A05	1.000	.718	.125
A06	.750	.531	.140
A07	.750	.531	.125
A08	1.190	.906	.125
A09	.687	.500	#4-40 TAP
A10	.687	.500	.136
A11	1.250	.975	.147
A12	2.000	1.440	.257
A13	1.000	.718	.141
A14	1.000	.718	.144
A15	.687	.500	.104
A16	.750	.531	.136
A17	.375	.232	.067
A18	.625	.437	.094
A19	1.000	.718	#6-32 TAP
A20	.500	.340	#2-56 TAP
A21	1.250	.975	.142
A22	.375	.232	.093



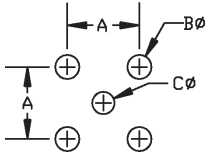
CODE	A
F01	.250
F02	.500
F03	.630
F04	1.200
F05	.380
F06	.450
F07	.200
F08	.362
F09	.220
F10	.317
F11	4.83mm
F12	.390



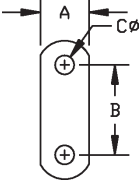
CODE	A	B
B01	.195	.177
B02	.250	.235
B03	.330	.295
B04	.380	.350
B05	.440	.410
B06	.512	.480
B07	.760	.720
B08	.565	.537
B09	.314	.296
B10	.140	.126
B11	.695	.655
B12	.625	.575
B13	.405	.361
B14	.277	.252
B15	.630	.596
B16	.317	.285
B17	.284	.268



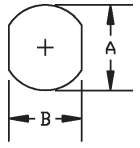
CODE	A	B
J01	.200	.046



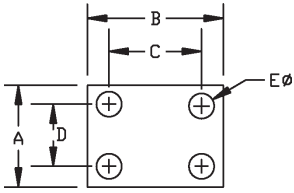
CODE	A	B	C
D01	.200	.067	.062
D02	.200	.067	.046
D03	.100	.031	.031
D04	.200	.052	.052
D05	.260	.067	.043
D06	.200	.052	.047
D07	.200	.055	.043
D08	.200	.067	.035
D09	.200	.055	.028
D10	.200	.055	.035
D11	.320	.091	.031
D12	.400	.062	.062
D13	.320	.091	.091
D14	.340	.091	.043
D15	.164	.067	.091
D16	.500	.126	.440
D17	.380	.083	.043



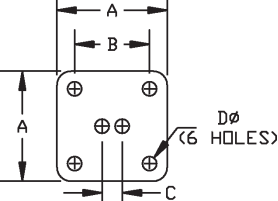
CODE	A	B	C
C01	.223	.481	.102
C02	.260	.481	.102
C03	.192	.328	.067
C04	.640	1.000	.125
C05	.275	.481	.102
C06	.230	.354	.067
C07	.188	.328	.093



CODE	A	B
G01	.640	.546
G02	.380	.340
G03	.765	.712
G04	.362	.323
G05	.236	.197
G06	.217	.177
G07	.380	.310
G08	1.161	1.000



CODE	A	B	C	D	E
E01	.375	.500	.340	.222	.093



CODE	A	B	C	D
H01	.687	.500	.125	.045



Free Shipping Available  
via UPS Ground to  
USA & Canada



Technical  
Support  
(866) 727-8376



Same-Day Shipping,  
Even Custom  
Cable Assemblies

# CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

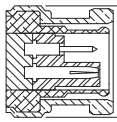
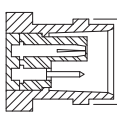
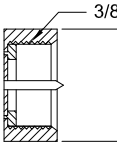
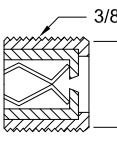
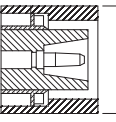
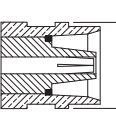
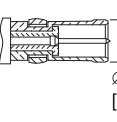
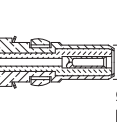
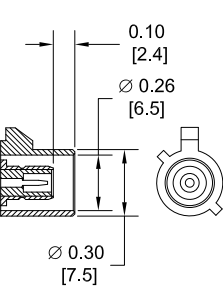
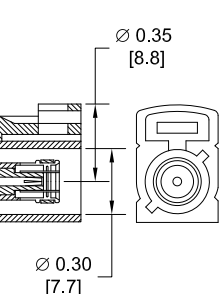
















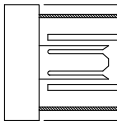

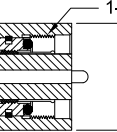
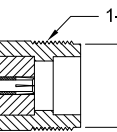
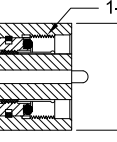
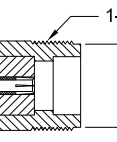
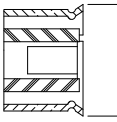
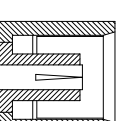
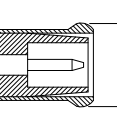
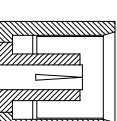
<b>1.0/2.3 SLIDE ON</b>	<b>PLUG</b>		<b>1.0/2.3 SNAP ON</b>	<b>PLUG</b>		<b>1.6/56</b>	<b>PLUG</b>	
	<b>JACK</b>			<b>JACK</b>			<b>JACK</b>	
<b>1.85 mm**</b>	<b>MALE</b>		<b>2.4 mm**</b>	<b>MALE</b>		<b>2.92 mm**</b>	<b>MALE</b>	
	<b>FEMALE</b>			<b>FEMALE</b>			<b>FEMALE</b>	
<b>3.5 mm*</b>	<b>MALE</b>		<b>7 mm</b>	<b>PLUG</b>		<b>7/16</b>	<b>PLUG</b>	
	<b>FEMALE</b>			<b>JACK</b>			<b>JACK</b>	
<b>3/4-20 TWINAX</b>	<b>MALE</b>		<b>10-32</b>	<b>MALE</b>		<b>BANANA</b>	<b>PLUG</b>	
	<b>FEMALE</b>			<b>FEMALE</b>			<b>JACK</b>	
<b>BNC</b>	<b>MALE</b>		<b>REVERSE POLARITY BNC</b>	<b>MALE</b>		<b>75 OHM BNC</b>	<b>MALE</b>	
	<b>FEMALE</b>			<b>FEMALE</b>			<b>FEMALE</b>	

\*SMA, 2.92mm, & 3.5mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.

\*\*1.85mm & 2.4mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.

# CONNECTOR IDENTIFIER

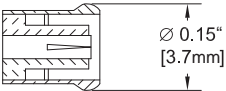
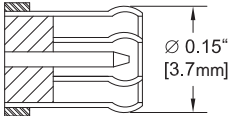
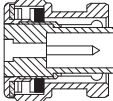
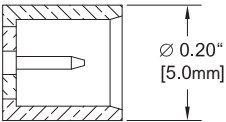
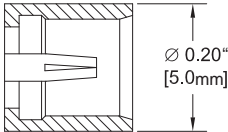
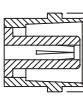
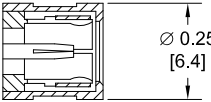
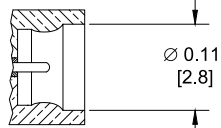
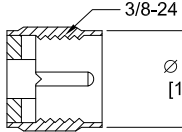
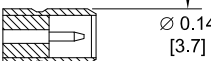
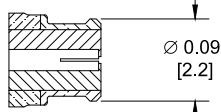
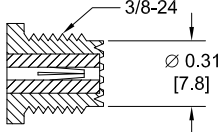
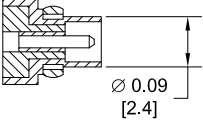
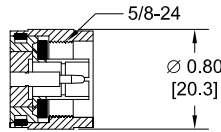
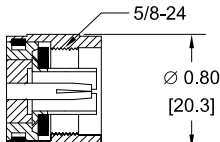
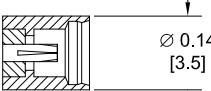
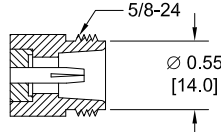
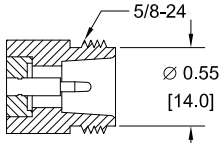
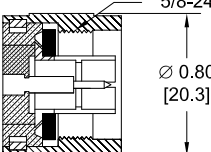
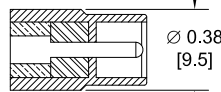
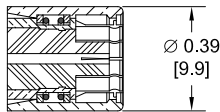
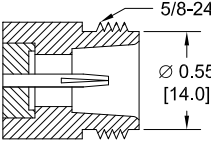
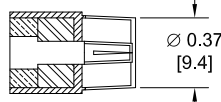
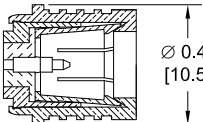
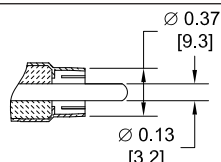
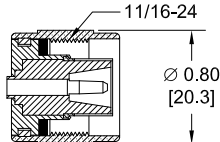
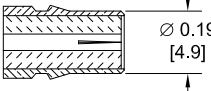
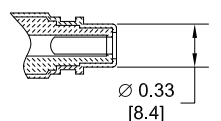
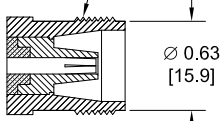
SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

<b>BNC TWINAX</b>	<b>PLUG</b>	 Ø 0.57" [14.5mm]				
	<b>JACK</b>	 Ø 0.44" [11.1mm]				
<b>F</b>	<b>MALE</b>	 3/8-32 7/16 HEX				
	<b>FEMALE</b>	 3/8-32 Ø 0.34 [8.5]				
<b>C</b>	<b>MALE</b>	 Ø 0.75" [19.1mm]				
	<b>FEMALE</b>	 Ø 0.60" [15.2mm]				
<b>D SUBMINIATURE</b>	<b>PLUG</b>	 Ø 0.19" [4.8mm]				
	<b>RECEPTACLE</b>	 Ø 0.15" [3.9mm]				
<b>FAKRA</b>	<b>PLUG</b>	 0.10 [2.4] Ø 0.26 [6.5] Ø 0.30 [7.5]				
	<b>JACK</b>	 Ø 0.35 [8.8] Ø 0.30 [7.7]				
<b>FAKRA</b>	<b>COMPLETE KEY CODE INFO</b>	<b>CODE</b>	<b>JACK</b>	<b>PLUG</b>	<b>COLOR</b>	<b>APPLICATION</b>
		<b>A</b>			BLACK	RADIO WITH PHANTOM SUPPLY
		<b>B</b>			WHITE	RADIO WITHOUT PHANTOM SUPPLY
		<b>C</b>			BLUE	GPS: TELEMATICS OR NAVIGATION
<b>D</b>			BORDEAUX	GSM: CELLULAR PHONE		
<b>H</b>			VIOLET	GPS: TELEMATICS AND NAVIGATION		
<b>I</b>			BEIGE	BLUETOOTH		
<b>K</b>			CURRY	RADIO WITH I.F. OUTPUT (ANTENNA DIVERSITY)		
<b>Z</b>			WATER BLUE	NEUTRAL CODING		
<b>GR874</b>	<b>MALE</b>	 3/4-20 Ø 0.90 [22.9]				
	<b>FEMALE</b>	 3/4-20 Ø 0.67 [17.1]				
<b>LC</b>	<b>MALE</b>	 1-1/4-18 1-1/2 HEX				
	<b>FEMALE</b>	 1-1/4-18 Ø 1.17 [29.6]				
<b>UMCX</b>	<b>PLUG</b>	 Ø 0.10 [2.5]				
	<b>JACK</b>	 Ø 0.08 [2.0]				
<b>MC-CARD</b>	<b>PLUG</b>	 Ø 0.087 [2.2]				
	<b>JACK</b>	 Ø 0.20 [5.0]				
<b>MCX</b>	<b>PLUG</b>	 Ø 0.15 [3.7]				
	<b>JACK</b>	 Ø 0.20 [5.0]				



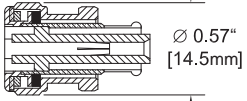
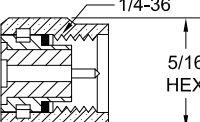
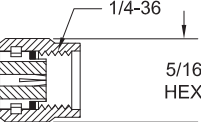
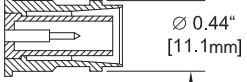
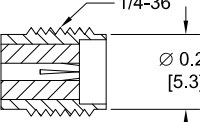
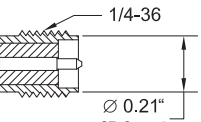
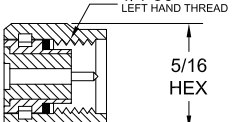
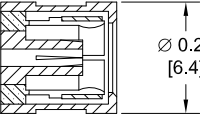
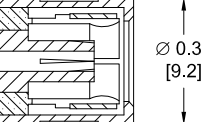
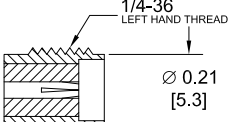
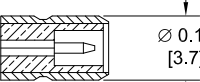
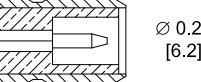

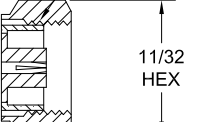
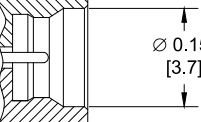
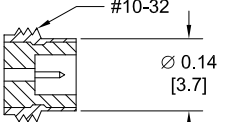
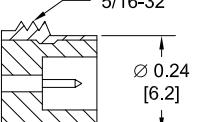
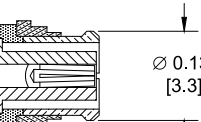
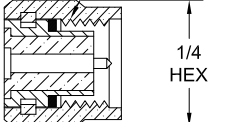
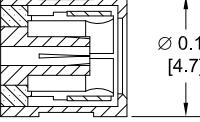
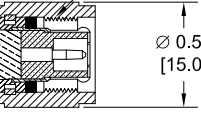
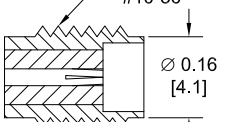
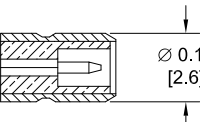
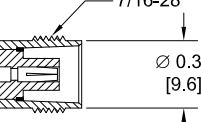
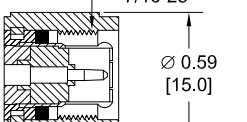
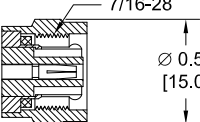
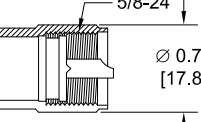
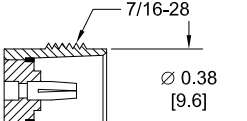
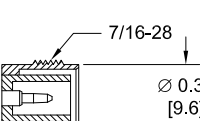
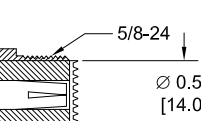
# CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

<b>REVERSE POLARITY MCX</b>	<b>PLUG</b>	 Ø 0.15" [3.7mm]	<b>75 OHM MCX</b>	<b>PLUG</b>	 Ø 0.15" [3.7mm]	<b>MHV</b>	<b>MALE</b>	 Ø 0.57" [14.5mm]
	<b>JACK</b>	 Ø 0.20" [5.0mm]		<b>JACK</b>	 Ø 0.20" [5.0mm]		<b>FEMALE</b>	 Ø 0.44" [11.1mm]
<b>MINI 75 OHM SMB</b>	<b>PLUG</b>	 Ø 0.25 [6.4]	<b>MINI SMP</b>	<b>MALE</b>	 Ø 0.11" [2.8]	<b>MINI-UHF</b>	<b>MALE</b>	 3/8-24 Ø 0.45 [11.5]
	<b>JACK</b>	 Ø 0.14 [3.7]		<b>FEMALE</b>	 Ø 0.09" [2.2]		<b>FEMALE</b>	 3/8-24 Ø 0.31 [7.8]
<b>MMCX</b>	<b>PLUG</b>	 Ø 0.09 [2.4]	<b>N</b>	<b>MALE</b>	 5/8-24 Ø 0.80 [20.3]	<b>REVERSE POLARITY N</b>	<b>MALE</b>	 5/8-24 Ø 0.80 [20.3]
	<b>JACK</b>	 Ø 0.14 [3.5]		<b>FEMALE</b>	 5/8-24 Ø 0.55 [14.0]		<b>FEMALE</b>	 5/8-24 Ø 0.55 [14.0]
<b>75 OHM N</b>	<b>MALE</b>	 5/8-24 Ø 0.80 [20.3]	<b>PAL</b>	<b>PLUG</b>	 Ø 0.38 [9.5]	<b>POSITIVE SNAP</b>	 Ø 0.39 [9.9]	
	<b>FEMALE</b>	 5/8-24 Ø 0.55 [14.0]		<b>JACK</b>	 Ø 0.37 [9.4]			
<b>OMA</b>	<b>MALE</b>	 Ø 0.41 [10.5]	<b>RCA</b>	<b>PLUG</b>	 Ø 0.37 [9.3] Ø 0.13 [3.2]	<b>SC</b>	<b>MALE</b>	 11/16-24 Ø 0.80 [20.3]
	<b>FEMALE</b>	 Ø 0.19 [4.9]		<b>JACK</b>	 Ø 0.33 [8.4]		<b>FEMALE</b>	 11/16-24 Ø 0.63 [15.9]

# CONNECTOR IDENTIFIER

SPECIFICATIONS SHOWN ARE INTENDED FOR IDENTIFICATION PURPOSES ONLY

<b>SHV</b>	<b>PLUG</b>	 Ø 0.57" [14.5mm]	<b>SMA*</b>	<b>MALE</b>	 1/4-36 5/16 HEX	<b>REVERSE POLARITY SMA</b>	<b>MALE</b>	 1/4-36 5/16 HEX
	<b>JACK</b>	 Ø 0.44" [11.1mm]		<b>FEMALE</b>	 1/4-36 Ø 0.21 [5.3]		<b>FEMALE</b>	 1/4-36 Ø 0.21" [5.3mm]
<b>SMA REVERSE THREAD</b>	<b>MALE</b>	 1/4-36 LEFT HAND THREAD 5/16 HEX	<b>SMB</b>	<b>PLUG</b>	 Ø 0.25 [6.4]	<b>75 OHM SMB</b>	<b>PLUG</b>	 Ø 0.37 [9.2]
	<b>FEMALE</b>	 1/4-36 LEFT HAND THREAD Ø 0.21 [5.3]		<b>JACK</b>	 Ø 0.14 [3.7]		<b>JACK</b>	 Ø 0.24 [6.2]
<b>SMC</b>	<b>PLUG</b>	 #10-32 1/4 HEX	<b>75 OHM SMC</b>	<b>PLUG</b>	 5/16-32 11/32 HEX	<b>SMP</b>	<b>MALE</b>	 Ø 0.15" [3.7]
	<b>JACK</b>	 #10-32 Ø 0.14 [3.7]		<b>JACK</b>	 5/16-32 Ø 0.24 [6.2]		<b>FEMALE</b>	 Ø 0.13" [3.3]
<b>SSMA</b>	<b>MALE</b>	 #10-36 1/4 HEX	<b>SSMB</b>	<b>PLUG</b>	 Ø 0.18 [4.7]	<b>TNC</b>	<b>MALE</b>	 7/16-28 Ø 0.59 [15.0]
	<b>FEMALE</b>	 #10-36 Ø 0.16 [4.1]		<b>JACK</b>	 Ø 0.10 [2.6]		<b>FEMALE</b>	 7/16-28 Ø 0.38 [9.6]
<b>75 OHM TNC</b>	<b>MALE</b>	 7/16-28 Ø 0.59 [15.0]	<b>REVERSE POLARITY TNC</b>	<b>MALE</b>	 7/16-28 Ø 0.59 [15.0]	<b>UHF</b>	<b>MALE</b>	 5/8-24 Ø 0.70 [17.8]
	<b>FEMALE</b>	 7/16-28 Ø 0.38 [9.6]		<b>FEMALE</b>	 7/16-28 Ø 0.38 [9.6]		<b>FEMALE</b>	 5/8-24 Ø 0.55 [14.0]

\*SMA, 2.92mm & 3.5mm CONNECTORS WILL MATE MECHANICALLY & ELECTRICALLY TO EACH OTHER.



Free Shipping Available  
via UPS Ground to  
USA & Canada



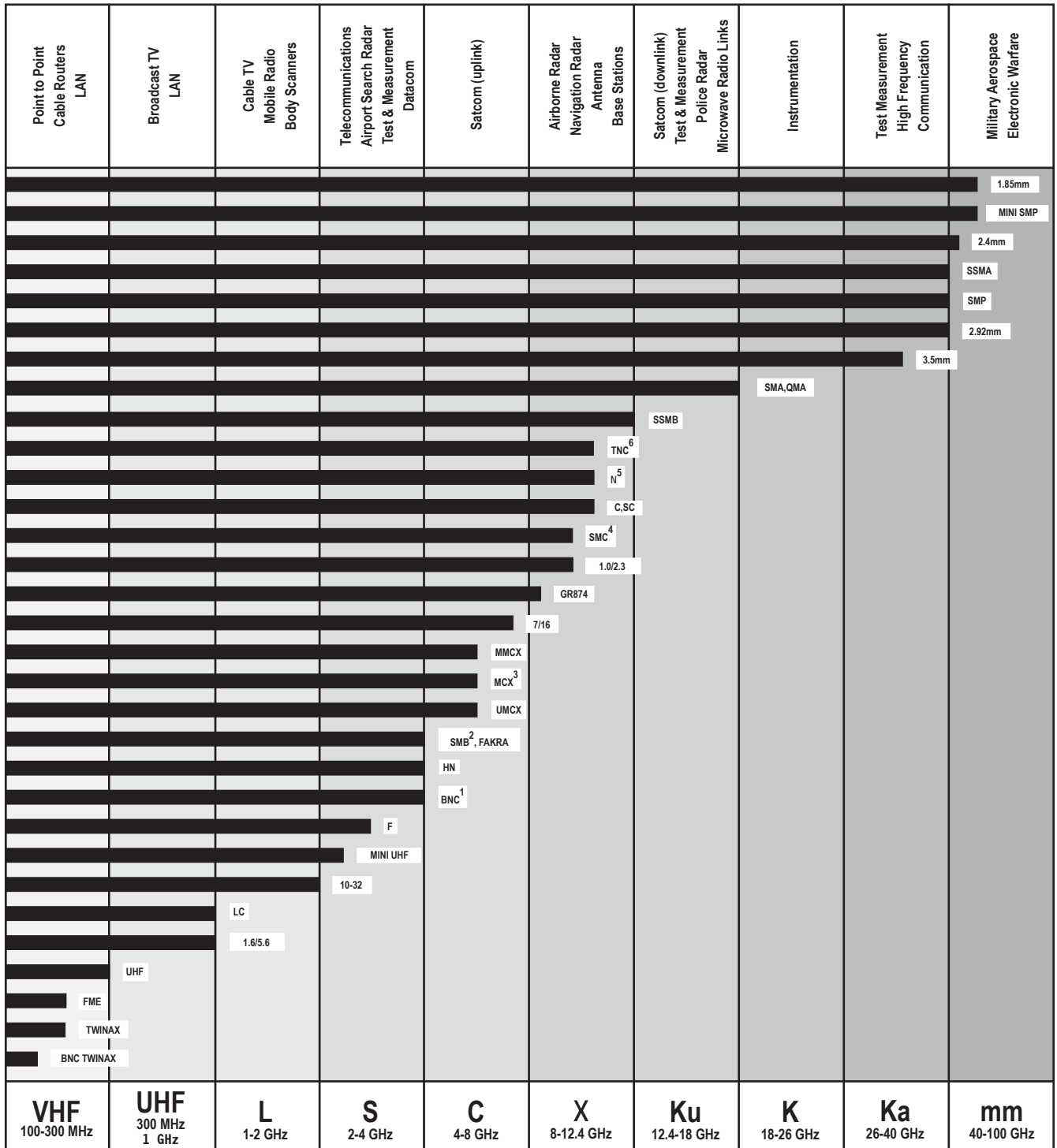
Technical  
Support  
(866) 727-8376



Same-Day Shipping,  
Even Custom  
Cable Assemblies



# CONNECTOR FREQUENCY RANGE CHART



**Notes:**

- 1: BNC-75 Ohm connectors operate up to 1 GHz
- 2: SMB-75 Ohm & Mini SMB-75 Ohm connectors operate up to 4 GHz
- 3: MCX-75 Ohm connectors operate up to 6 GHz
- 4: SMC-75 Ohm connectors operate up to 10 GHz
- 5: N-75 Ohm connectors operate up to 1.5 GHz
- 6: TNC-75 Ohm connectors operate up to 1 GHz