



Bordeaux FAKRA Plug to FAKRA Jack  
Cable Using PE-C100-LSZH Coax

## RF Cable Assemblies - PE38748D

### Configuration

- Connector 1: FAKRA Plug
- Connector 2: FAKRA Jack
- Cable Type: PE-C100-LSZH

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
Jacket Spark			2,000	Vrms

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1000	4	MHz
Insertion Loss	0.27 [0.89]	0.315 [1.03]	0.366 [1.2]	0.436 [1.43]	0.689 [2.26]	dB/ft [dB/m]
VSWR	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1	
Return Loss	15.56	15.563	15.563	15.563	15.563	dB

### Mechanical Specifications

#### Cable Assembly

Diameter	0.37 in [9.4 mm]
Weight	0.03 lbs [13.61 g]
Cable Color	Black
Connection Type	In-Series
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs/ft [0.15 Kg/m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Bordeaux FAKRA Plug to FAKRA Jack Cable Using PE-C100-LSZH Coax PE38748D](#)



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### Cable

Cable Type	PE-C100-LSZH
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	LSZH
Jacket Diameter	0.109 in [2.77 mm]

### Connectors

Description	Connector 1	Connector 2
Type	FAKRA Plug	FAKRA Jack
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method	Standard	Standard
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Dielectric Type	Teflon	Teflon
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Body Material and Plating	Plastic, Paint	Plastic

### Environmental Specifications

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

For RoHS Compliant version, use PE38748dLF. Contact Pasternack if product cannot be found.  
REACH Compliant 12/15/2010

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Bordeaux FAKRA Plug to FAKRA Jack Cable Using PE-C100-LSZH Coax PE38748D](#)



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## RF Cable Assemblies - PE38748D

### How to Order

Part Number Configuration:

**PE38748D**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE38748D-12 = 12 inches long cable  
PE38748D-100cm = 100 cm long cable

Bordeaux FAKRA Plug to FAKRA Jack Cable Using PE-C100-LSZH Coax 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Bordeaux FAKRA Plug to FAKRA Jack Cable Using PE-C100-LSZH Coax PE38748D](http://www.pasternack.com/fakra-plug-fakra-jack-pe-c100-cable-assembly-pe38748d-p.aspx)

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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.

# PE38748D CAD Drawing

Bordeaux FAKRA Plug to FAKRA Jack Cable Using PE-C100 Coax



PE-C100

BORDEAUX FAKRA  
PLUG

FAKRA JACK

How To Order		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
Part Number Configuration PE3 [zzz] [yy] - [xx] [uu] 00 - 99999 LF = RoHS Compliant < Blank > = Standard Note: LF applies only to RF cables		-12	12"	-25CM	25Cm
Examples PE3000LF-100 PE3000-100 PE3000LF-100CM PE3000-100CM CM = Centimeters < Blank > = Inches _____ Length		-24	24"	-50CM	50Cm
		-36	36"	-75CM	75Cm
		-48	48"	-100CM	100Cm
		-60	60"	-125CM	125Cm
		-xx	Custom Length	-xxCM	Custom Length

- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES [mm].
  4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**PE38748D**

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FSCM NO. 53919

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