



10-32 Male Right Angle to Push-On SMP
Female Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3C7720

Configuration

- Connector 1: 10-32 Male Right Angle
- Connector 2: Push-OnSMP Female
- Cable Type: RG178

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C7720 10-32 male right angle to SMP female push-on cable using RG178 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack 10-32 to SMP cable assembly has a male to female gender configuration with 50 ohm flexible RG178 coax. The PE3C7720 10-32 male to SMP female cable assembly operates to 3 GHz. The right angle 10-32 interface on the RG178 cable allows for easier connections in tight spaces.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10-32 Male Right Angle to Push-On SMP Female Cable Using RG178 Coax PE3C7720](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.13	0.2	0.3	0.44	0.78	dB/ft
	0.43	0.66	0.98	1.44	2.56	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Cable

Cable Type	RG178
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2
Type	10-32 Male Right Angle	SMP Female
Specification	MIL-C-39012	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method		Push-On
Contact Material and Plating	Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-DTL-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		MIL-DTL-45204
Body Material and Plating	Brass, Nickel	Beryllium Copper, Gold
Body Plating Specification	QQ-N-290	MIL-DTL-45204
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	QQ-N-290	

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C7720

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C7720-12 = 12 inches long cable
PE3C7720-100cm = 100 cm long cable

10-32 Male Right Angle to Push-On SMP Female Cable Using RG178 Coax 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: [10-32 Male Right Angle to Push-On SMP Female Cable Using RG178 Coax PE3C7720](#)

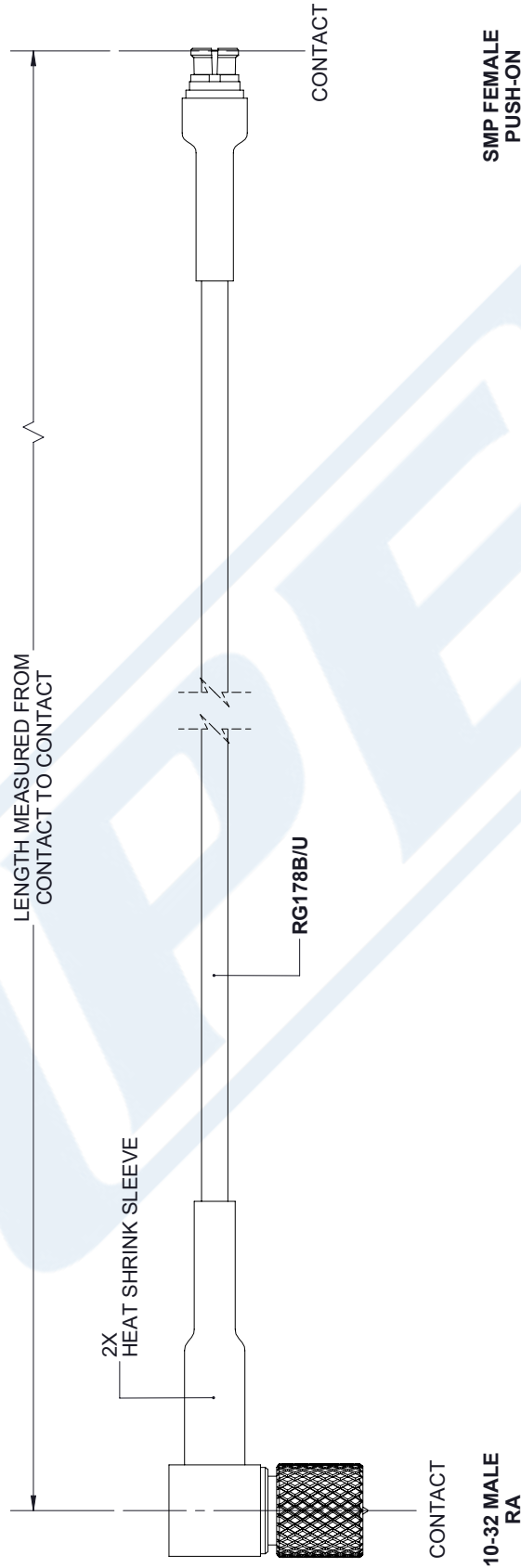
URL: <https://www.pasternack.com/10-32-male-smp-female-rg178bu-cable-assembly-pe3c7720-p.aspx>

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.

PE3C7720 CAD Drawing

10-32 Male Right Angle to Push-On SMP Female Cable Using RG178 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	4/13/2021	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
.X = ± .2	[.08]
.XX = ± .02	[.51]
.XXX = ± .005	[.13]
ANGLES	± 1°
CABLE LENGTH (L) TOLERANCES:	
L ≤ 12 [305]	± .1 [25]
12 [305] < L ≤ 60 [1524]	± .2 [51]
60 [1524] < L ≤ 120 [3048]	± .4 [102]
120 [3048] < L ≤ 300 [7620]	± .6 [152]
300 [7620] < L	± .5% L / -0
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

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SIZE	A
CAGE CODE	53919
DRAWN BY	K.DANG
ITEM NO.	PE3C7720
REV	A

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SHEET	1 OF 1
SCALE	N/A

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