SMB Plug to Straight Cut Lead Cable Using RG178 Coax
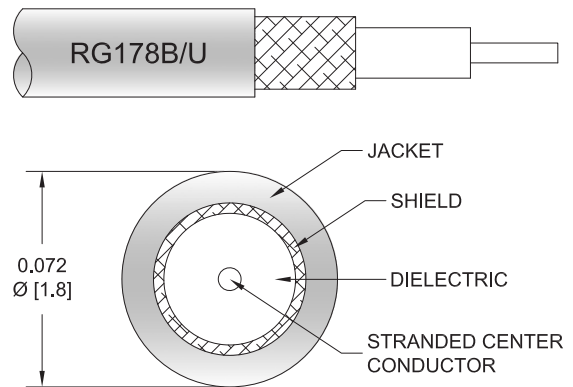
PE3C5380

Configuration

- Connector 1: SMB Plug
- Connector 2: Straight Cut Lead
- Cable Type: RG178
- Coax Flex Type: Flexible

Features

- 70% Phase Velocity
- FEP Jacket

RG178B/U

JACKET

SHIELD

0.072
Ø [1.8]

DIELECTRIC

STRANDED CENTER
CONDUCTOR

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5380 50 ohm SMB plug to straight cut lead 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.

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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Mechanical Specifications

Cable Assembly
Weight	0.018 lbs [8.16 g]

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

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PE3C5380

Jacket Diameter	0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMB Plug	Straight Cut Lead
Specification	MIL-STD-348A	
Impedance	50 Ohms	0 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

+1 (866) 558-2786 | sales@pasternack.com **| pasternack.com**

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PE3C5380

Typical Performance Data

How to Order

Part Number Configuration: **PE3C5380** - xx   uu

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

Example: PE3C5380-12 = 12 inches long cable
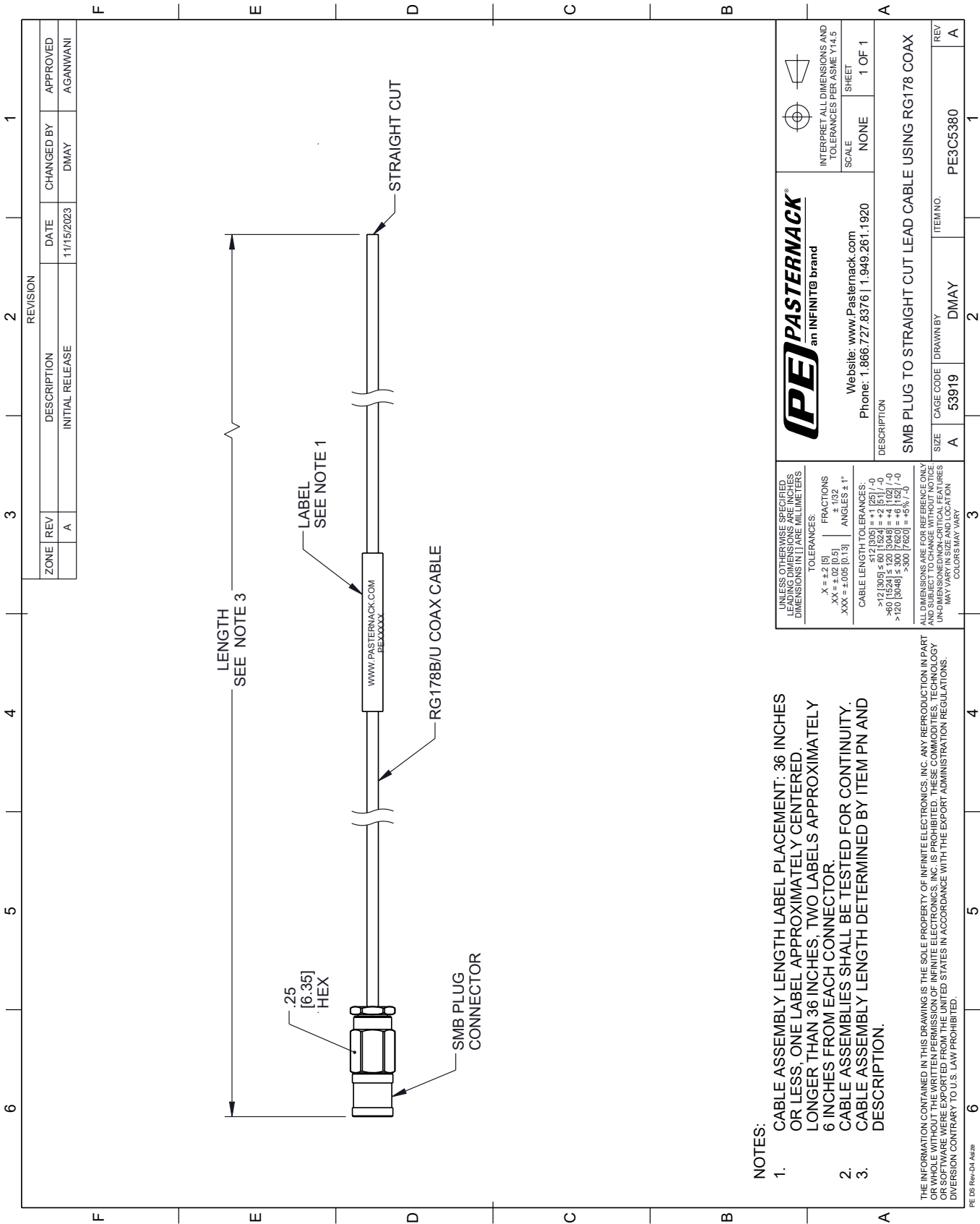   PE3C5380-100cm = 100 cm long cable

SMB Plug to Straight Cut Lead 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: SMB Plug to Straight Cut Lead Cable Using RG178 Coax PE3C5380

URL: https://www.pasternack.com/smb-plug-to-straight-cut-lead-cable-using-rg178-pe3c5380-p.aspx

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PE3C5380 CAD Drawing

SMB Plug to Straight Cut Lead Cable Using RG178 Coax

STRAIGHT CUT

LABEL
SEE NOTE 1

WWW.PASTERNACK.COM
PEXXXXXX

RG178B/U COAX CABLE

LENGTH
SEE NOTE 3

.25
[6.35]
HEX

SMB PLUG
CONNECTOR

NOTES:
1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

REVISION

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	11/15/2023	DMAY	AGANWANI

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
.X = ±.2 [5]   FRACTIONS
.XX = ±.02 [0.5]   ± 1/32
.XXX = ±.005 [0.13]   ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / –0
>12 [305] ≤ 60 [1524] = +2 [51] / –0
>60 [1524] ≤ 120 [3048] = +4 [102] / –0
>120 [3048] ≤ 300 [7620] = +6 [152] / –0
>300 [7620] = +5% / –0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY

PASTERNACK
an INFINITE brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
SMB PLUG TO STRAIGHT CUT LEAD CABLE USING RG178 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DMAY	PE3C5380	A

DRAWN BY DMAY

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE   SHEET 1 OF 1

PE DS Rev-D4 A6/29

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