



## SMB Plug Right Angle Connector Crimp/ Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

PE4159

#### Configuration

- SMB Plug Connector
- MIL-STD-348A
- 50 Ohms

- Right Angle Body Geometry
- RG178, RG196 Interface Type
- Crimp/Solder Attachment

#### Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.5:1

- Gold Plated Beryllium Copper Contact
- 30  $\mu$ in minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4159 SMB plug right angle connector with crimp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our SMB plug connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.5:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMB plug right angle connector PE4159 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
Operating Voltage (AC)			250	Vrms

#### Mechanical Specifications

##### Size

- Length
- Width/Dia.
- Height
- Weight

- 0.53 in [13.46 mm]
- 0.256 in [6.50 mm]
- 0.62 in [15.75 mm]
- 0.006 lbs [2.72 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug Right Angle Connector Crimp/Solder Attachment for RG178, RG196 PE4159](#)



## SMB Plug Right Angle Connector Crimp/ Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

PE4159

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 $\mu$ in minimum
Insulation	PTFE	
Body	Brass	Nickel 100 $\mu$ in minimum

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +165 deg C

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

#### Plotted and Other Data

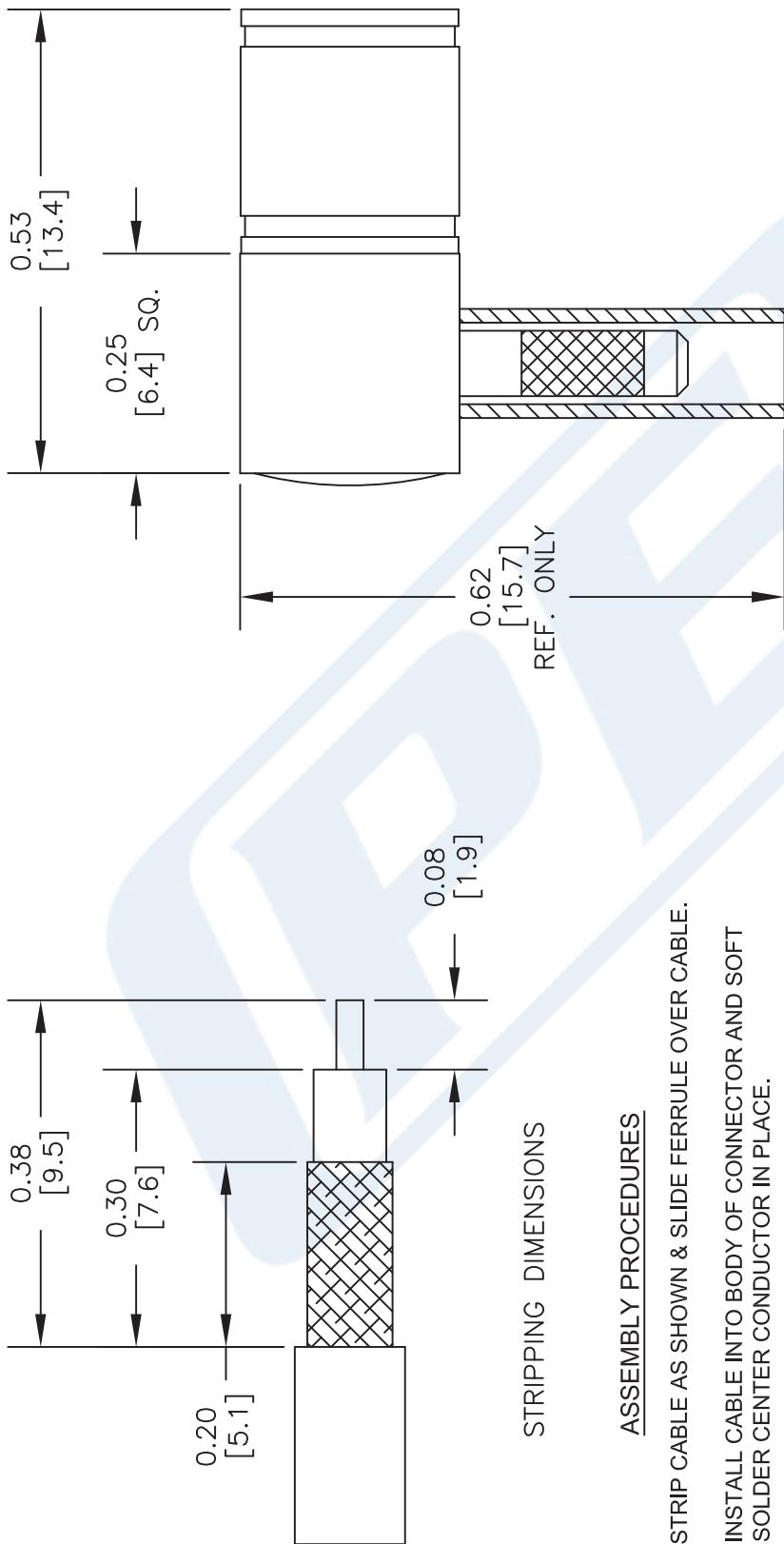
Notes:

SMB Plug Right Angle Connector Crimp/Solder Attachment for RG178, RG196 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: [SMB Plug Right Angle Connector Crimp/Solder Attachment for RG178, RG196 PE4159](#)

URL: <https://www.pasternack.com/smb-plug-standard-rg178-rg196-connector-pe4159-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.



1. STRIP CABLE AS SHOWN & SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE & PRESS CAP DOWN.

#### CRIMP SIZE REQUIRED

FERRULE: .100" HEX CRIMP TOOL



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DWG TITLE  
**PE4159**

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. FITS MIL-C-17 AND EQUIVALENT CABLES.

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## MMBX Plug Right Angle Snap-On Connector Crimp/Solder Attachment for RG178, RG196, with male center contact

### RF Connectors Technical Data Sheet

PE45254

#### Configuration

- Snap-On MMBX Plug Connector
- 50 Ohms
- Right Angle Body Geometry

- RG178, RG196 Interface Type
- Crimp/Solder Attachment

#### Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.22:1
- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

- Reliable Snap-On connection method
- Small circuit footprint for high density applications
- Mechanical misalignment tolerance of 4.5°/0.7mm Max

#### Applications

- General Purpose Test
- Custom Cable Assemblies
- Low cost blind mate interconnect

- Multi circuit board radios

- Board to board applications requiring multiple coaxial connections

#### Description

Pasternack's PE45254 MMBX plug right angle snap-on connector crimp/solder attachment for RG178, RG196 is part of our full line of RF components available for same-day shipping. Our MMBX plug connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.22:1. Its right angle body geometry allows for easier connections in tight spaces. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our MMBX plug right angle connector PE45254 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable connector assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.22:1	
Insertion Loss		0.31		dB
Operating Voltage (DC)		165		Vdc
Dielectric Withstanding Voltage (DC)		500		Vdc
Insulation Resistance	1,000			MOhms

Electrical Specification Notes:  
 MMBX Plug has a male center contact

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMBX Plug Right Angle Snap-On Connector Crimp/Solder Attachment for RG178, RG196, with male center contact PE45254](#)



## MMBX Plug Right Angle Snap-On Connector Crimp/Solder Attachment for RG178, RG196, with male center contact

### RF Connectors Technical Data Sheet

PE45254

#### Mechanical Specifications

Size	
Length	0.51 in [12.95 mm]
Width/Dia.	0.24 in [6.10 mm]
Weight	0.00766 lbs [3.47 g]
Mating Cycles	100 Cycles

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Brass	Gold
Body	Brass	Gold

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +155 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMBX Plug Right Angle Snap-On Connector Crimp/Solder Attachment for RG178, RG196, with male center contact PE45254](#)



## MMBX Plug Right Angle Snap-On Connector Crimp/Solder Attachment for RG178, RG196, with male center contact

### RF Connectors Technical Data Sheet

PE45254

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

#### Plotted and Other Data

Notes:

MMBX Plug Right Angle Snap-On Connector Crimp/Solder Attachment for RG178, RG196, with male center contact 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.

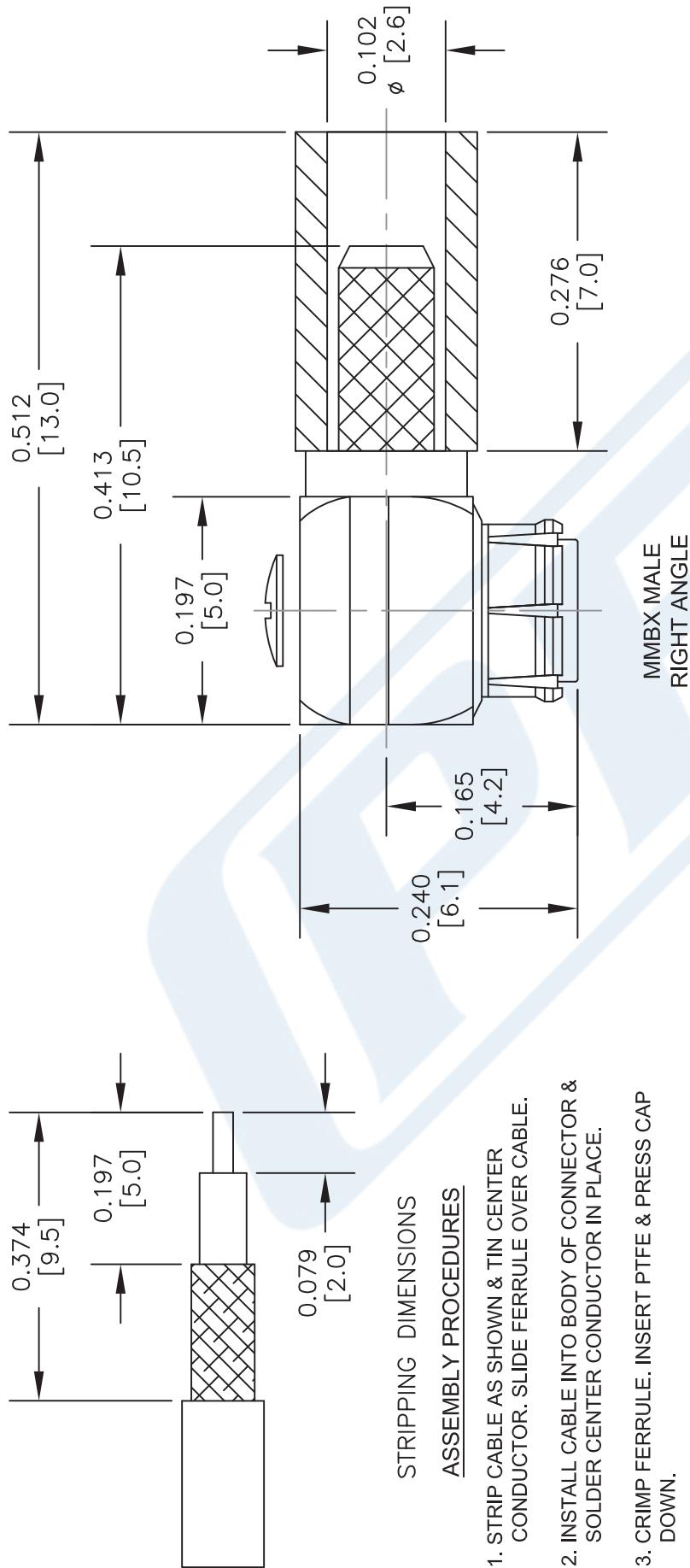
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMBX Plug Right Angle Snap-On Connector Crimp/Solder Attachment for RG178, RG196, with male center contact PE45254](#)

URL: <https://www.pasternack.com/mmbx-plug-snap-on-rg178-rg196-connector-pe45254-p.aspx>

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# PE45254 CAD Drawing

MMBX Plug Right Angle Snap-On Connector Crimp/Solder Attachment for RG178, RG196, with male center contact



### CRIMP SIZE REQUIRED

CONTACT: SOLDER FERRULE: .128" HEX CRIMP TOOL

STANDARD TOLERANCES		
.X	$\pm 0.2$	
.XX	$\pm 0.1$	
.XXX	$\pm 0.05$	

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

**PASTERNACK**  
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DWG TITLE	PE45254
FSCM NO.	53919

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 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

## Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG178B/U**

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Operating Voltage (AC)			1,000	Vrms
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Attenuation, Typ	13.81	27.8	44.41	78.4		dB/100ft
	45.31	91.21	145.7	257.22		dB/100m

#### Mechanical Specifications

Diameter	0.072 in [1.83 mm]
Weight	0.005 lbs/ft [0.01 Kg/m]
Min. Bend Radius (Repeated)	0.4 in [10.16 mm]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.012 in [0.3 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.034 in [0.86 mm]
First Shield	Silver Plated Copper Braid	0.051 in [1.3 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket RG178B/U](#)

## Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

## RF Cables Technical Data Sheet

RG178B/U

Jacket	FEP, Tan	0.072 in [1.83 mm]
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**Environmental Specifications****Temperature**

Operating Range

-55 to +200 deg C

**Compliance Certifications** (see [product page](#) for current document)**Plotted and Other Data**

Notes:

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket 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.

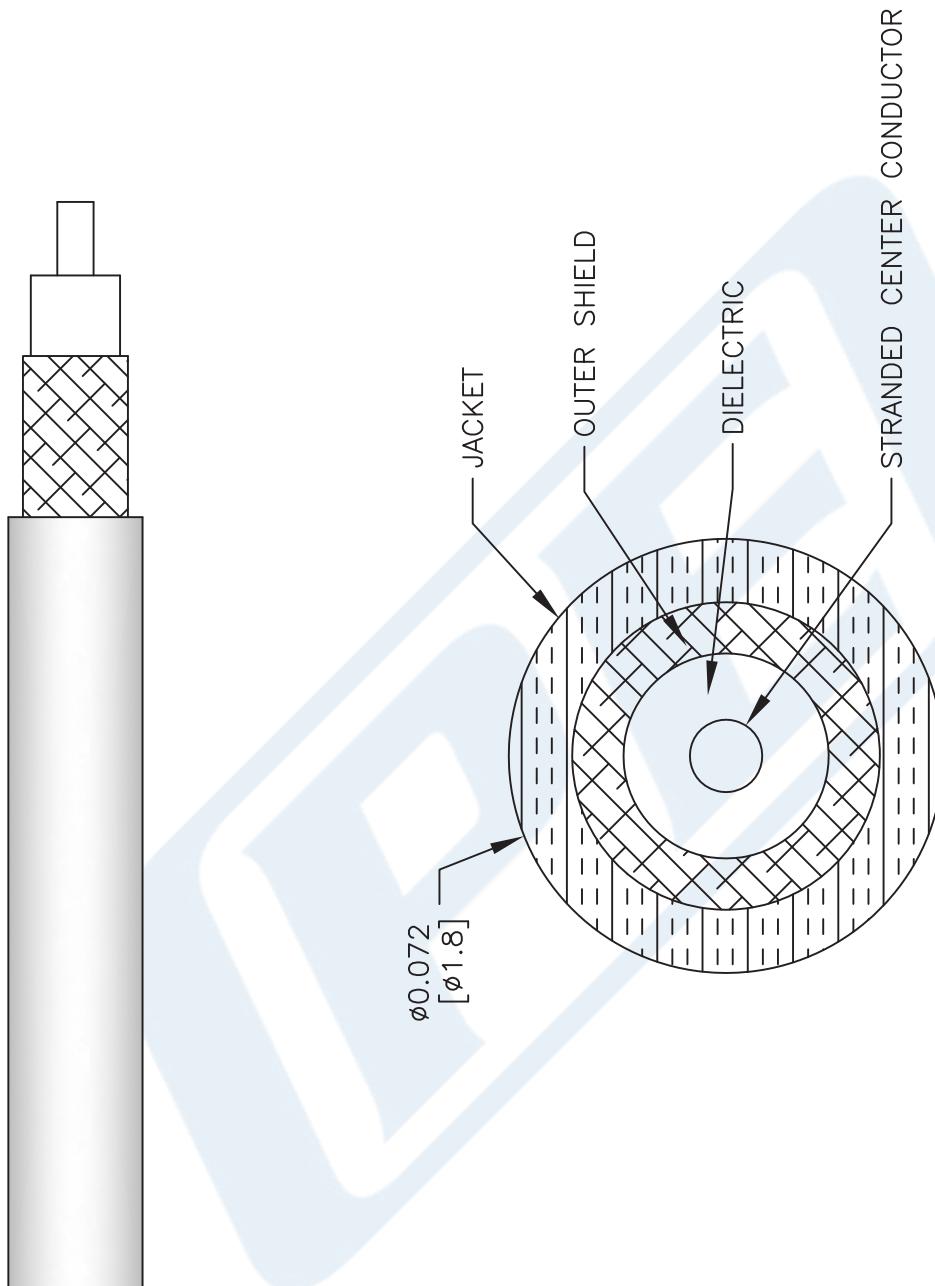
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket RG178B/U](#)

URL: <https://www.pasternack.com/flexible-0.075-rg178-50-ohm-coax-cable-fep-jacket-rg178b-u-p.aspx>

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# RG178B/U CAD Drawing

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket



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DWG TITLE	RG178B/U		
CAGE CODE	53919	CAD FILE	032117

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SIZE A

2233