PASTERNACK®
THE ENGINEER'S RF SOURCE

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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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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

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

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

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.

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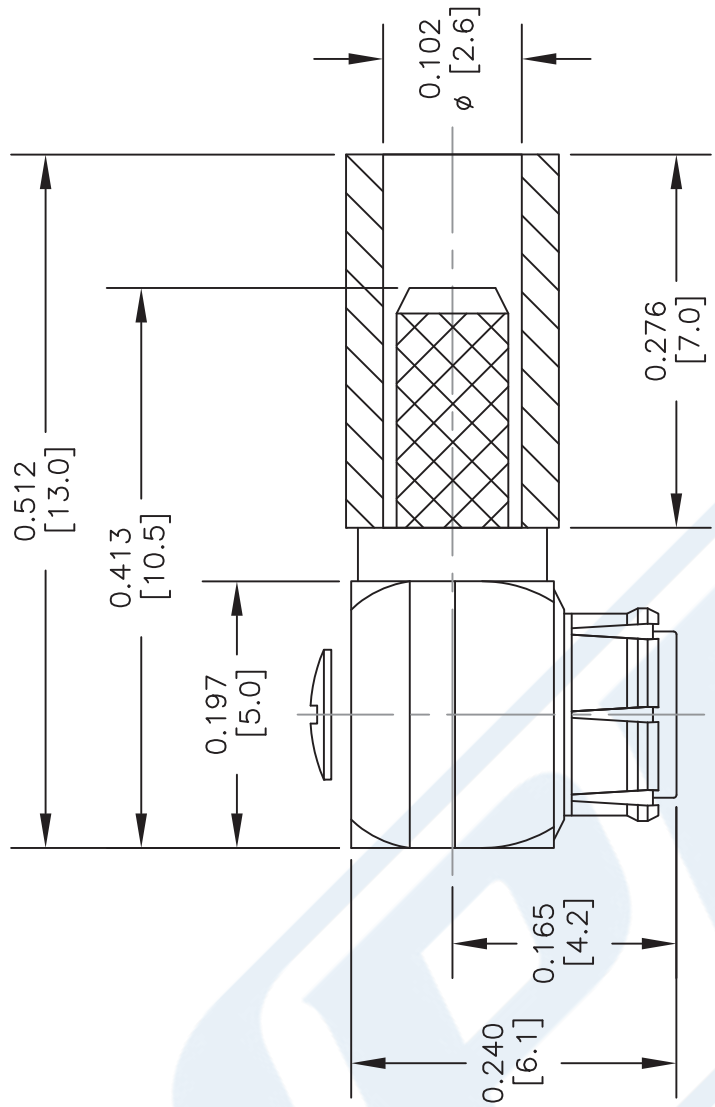
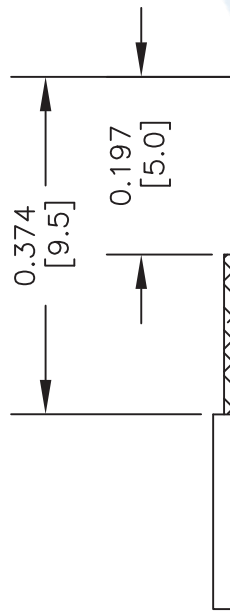
PE45254 CAD Drawing

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





STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

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

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .128" HEX CRIMP TOOL

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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.

DWG TITLE
PE45254

FSCM NO. 53919	CAD FILE 092816	SCALE N/A	SIZE A	2233

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MCX Plug Connector Crimp/Solder Attachment for RG178, RG196

PE4552

Configuration

- MCX Plug Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG178, RG196

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.35:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4552 , MCX, Standard, Connector is part of our full line of RF components available for same-day shipping. Our MCX plug connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.35:1.

Our MCX plug connector PE4552 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		6	GHz
VSWR			1.35:1	
Insertion Loss			0.4	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			5	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	1,000			MOhms
RF Leakage	60			
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 6				GHz
VSWR, Max	1.22:1	1.35:1				

Mechanical Specifications

Size

Length	0.619 in [15.72 mm]
Width	0.195 in [4.95 mm]
Height	0.195 in [4.95 mm]

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MCX Plug Connector Crimp/Solder Attachment for RG178, RG196

PE4552

Weight	0.005 lbs [2.27 g]
Mating Cycles	500 Cycles

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 2.5 µin minimum
Crimp Sleeve	Brass	Gold ASTM-B488
Washer	Passivated Stainless Steel	
O-Ring	Silicone Rubber	

Environmental Specifications

Temperature	
Operating Range	-65 to +165 deg C
Vibration	MIL-STD-202, Method 204, Condition B
Temperature Cycle	MIL-STD-202, Method 101, Condition B
Salt Spray	MIL-STD-202, Method 107, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

MCX Plug 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 99.4% 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: MCX Plug Connector Crimp/Solder Attachment for RG178, RG196 PE4552

URL: https://www.pasternack.com/mcx-plug-rg178-rg196-connector-pe4552-p.aspx

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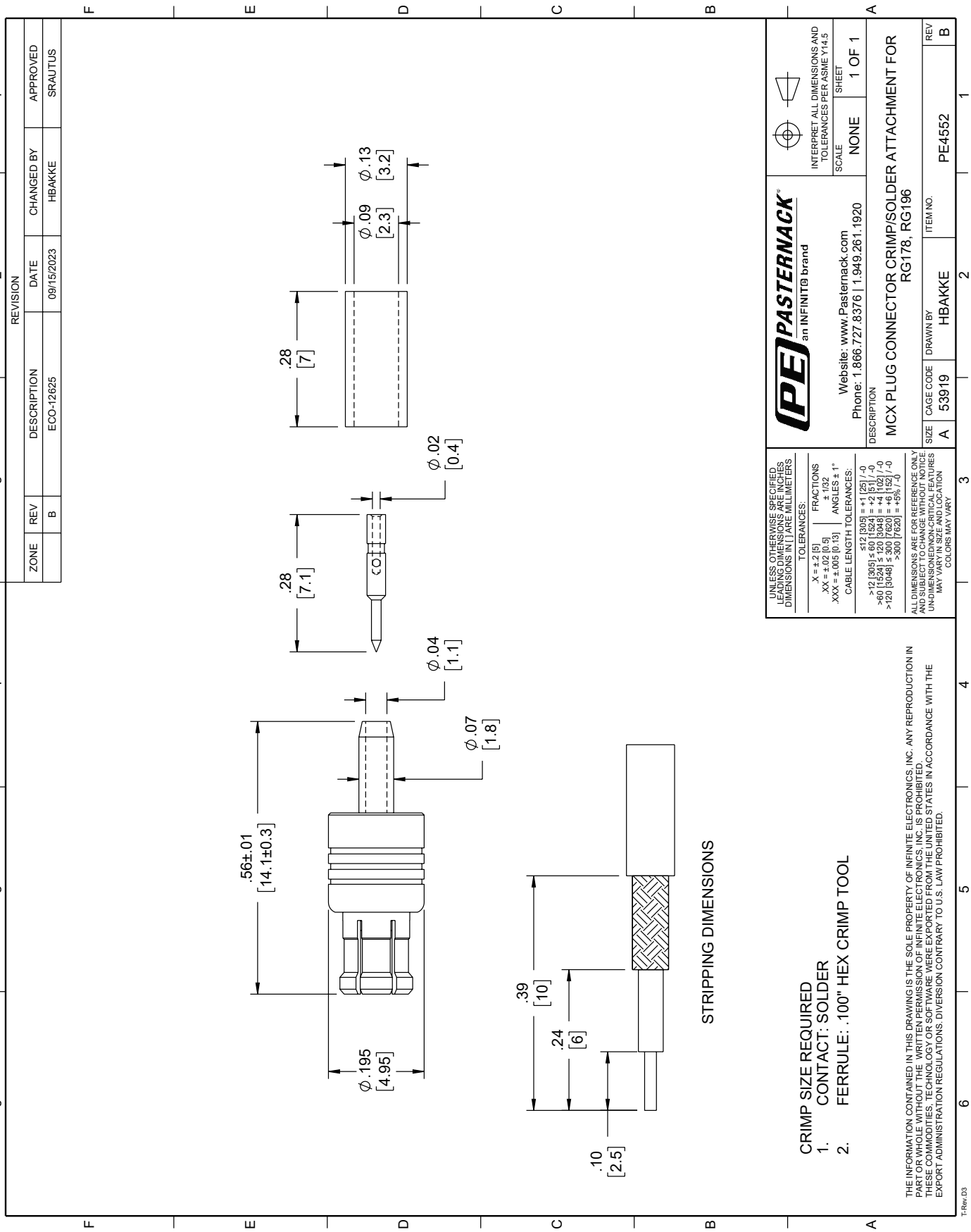
PE4552 CAD Drawing

MCX Plug Connector Crimp/Solder Attachment for RG178, RG196



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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

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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]

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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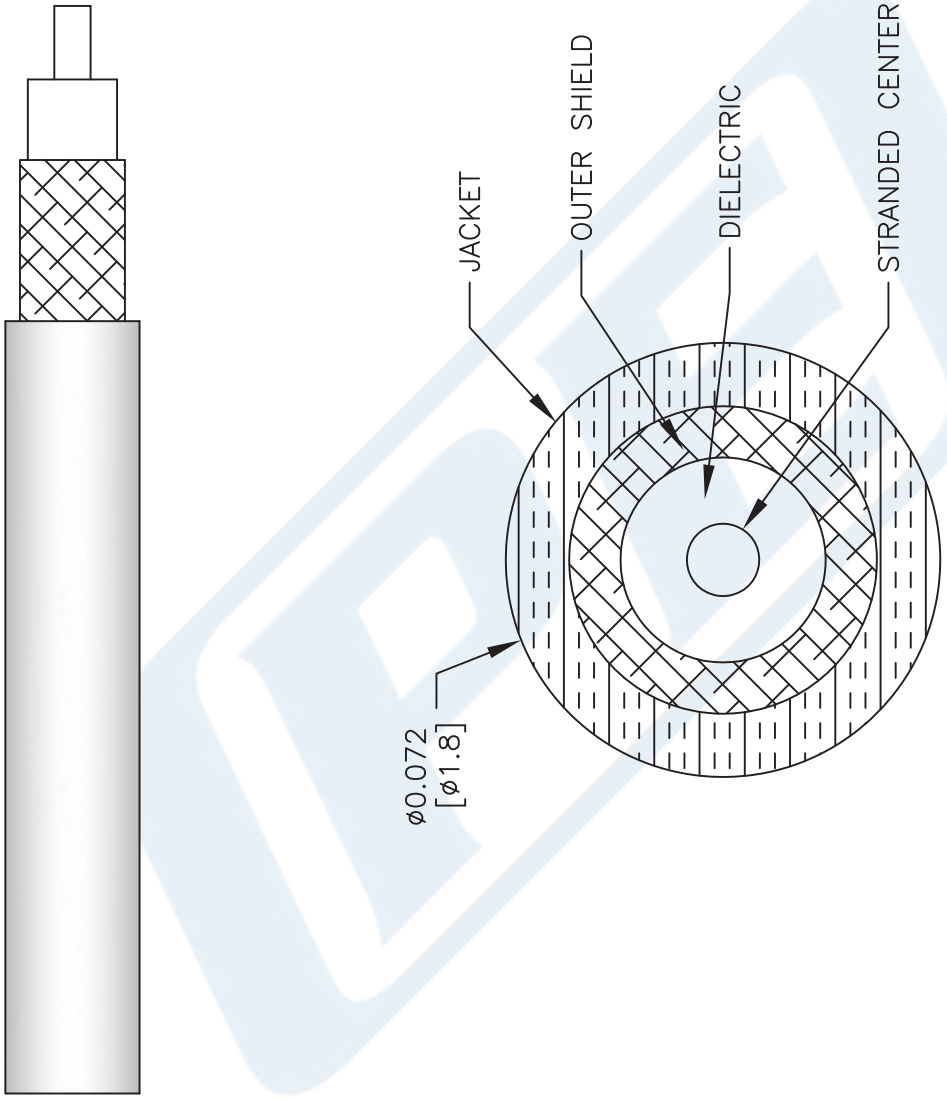
RG178B/U CAD Drawing

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket



NOTES:
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DWG TITLE
RG178B/U

CAD FILE 062117 | SCALE N/A | SIZE A | 2233

CAGE CODE 53919

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