PASTERNACK®
THE ENGINEER'S RF SOURCE



1.0/2.3 Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

RF Connectors
Technical Data Sheet

PE44244

Configuration

- 1.0/2.3 Plug Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44244 1.0/2.3 plug connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and .100 inch is part of our full line of RF components available for same-day shipping. Our 1.0/2.3 plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our 1.0/2.3 plug connector PE44244 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		4	GHz
VSWR			1.3:1	
Operating Voltage (AC)			250	Vrms

Mechanical Specifications

Size

Length	0.795 in [20.19 mm]
Width/Dia.	0.315 in [8.00 mm]
Weight	0.015 lbs [6.8 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.0/2.3 Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE44244

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1.0/2.3 Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin minimum

Environmental Specifications

Temperature

Operating Range	-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

1.0/2.3 Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch 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: 1.0/2.3 Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE44244

URL: https://www.pasternack.com/1.0-2.3-plug-standard-rg174-rg316-rg188-connector-pe44244-p.aspx

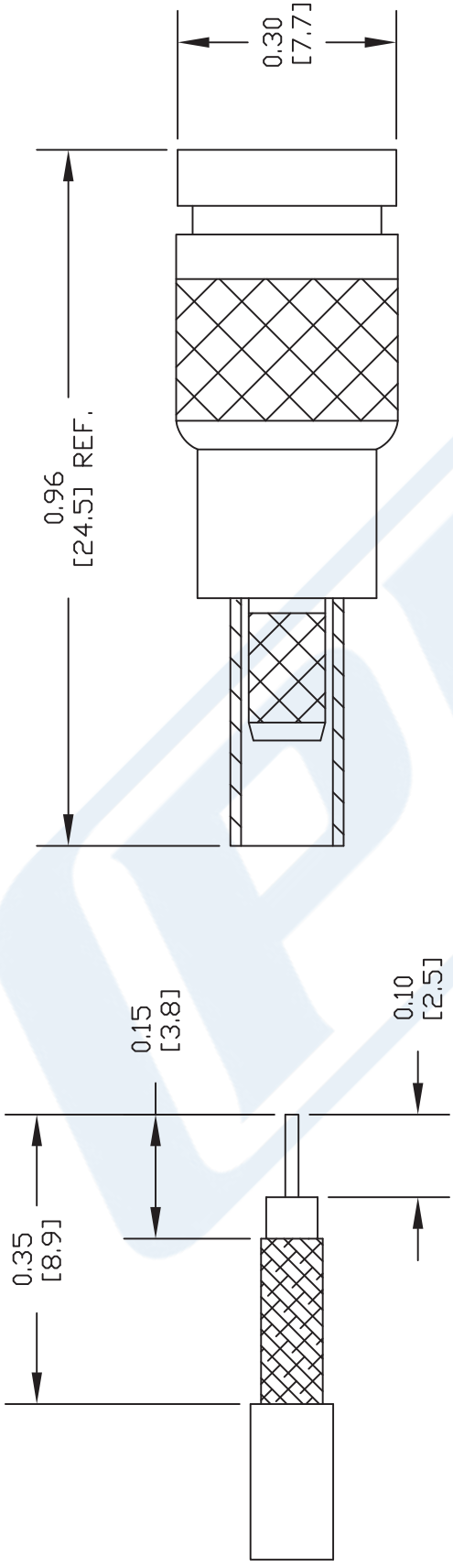
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PE44244 CAD Drawing

1.0/2.3 Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .128" HEX CRIMP TOOL

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	CAD FILE	SCALE	SIZE
PE44244	012313-A	N/A	A

FSCM NO. 53919

2231

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SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch



PE4003

Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch
- 5/16 inch Hex

Features

- Max. Operating Frequency 12.4 GHz
- Excellent VSWR of 1.21:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4003 , SMA, Standard, Connector is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 12.4 GHz and offers excellent VSWR of 1.21:1.

Our SMA male connector PE4003 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		12.4	GHz
VSWR			1.21:1	
Operating Voltage (AC)			335	Vrms
Impedance		50		Ohms

Mechanical Specifications

Size	
Length	0.87 in [22.1 mm]
Width	0.315 in [8.00 mm]
Height	4.2 in [106.68 mm]
Weight	0.012 lbs [5.44 g]
Mating Cycles	500 Cycles
Mating Torque	3 to 5 in-lbs [[0.34 to 0.57 Nm]]

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SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch



PE4003

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin minimum
Crimp Sleeve	Brass	Nickel

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch 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: SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE4003

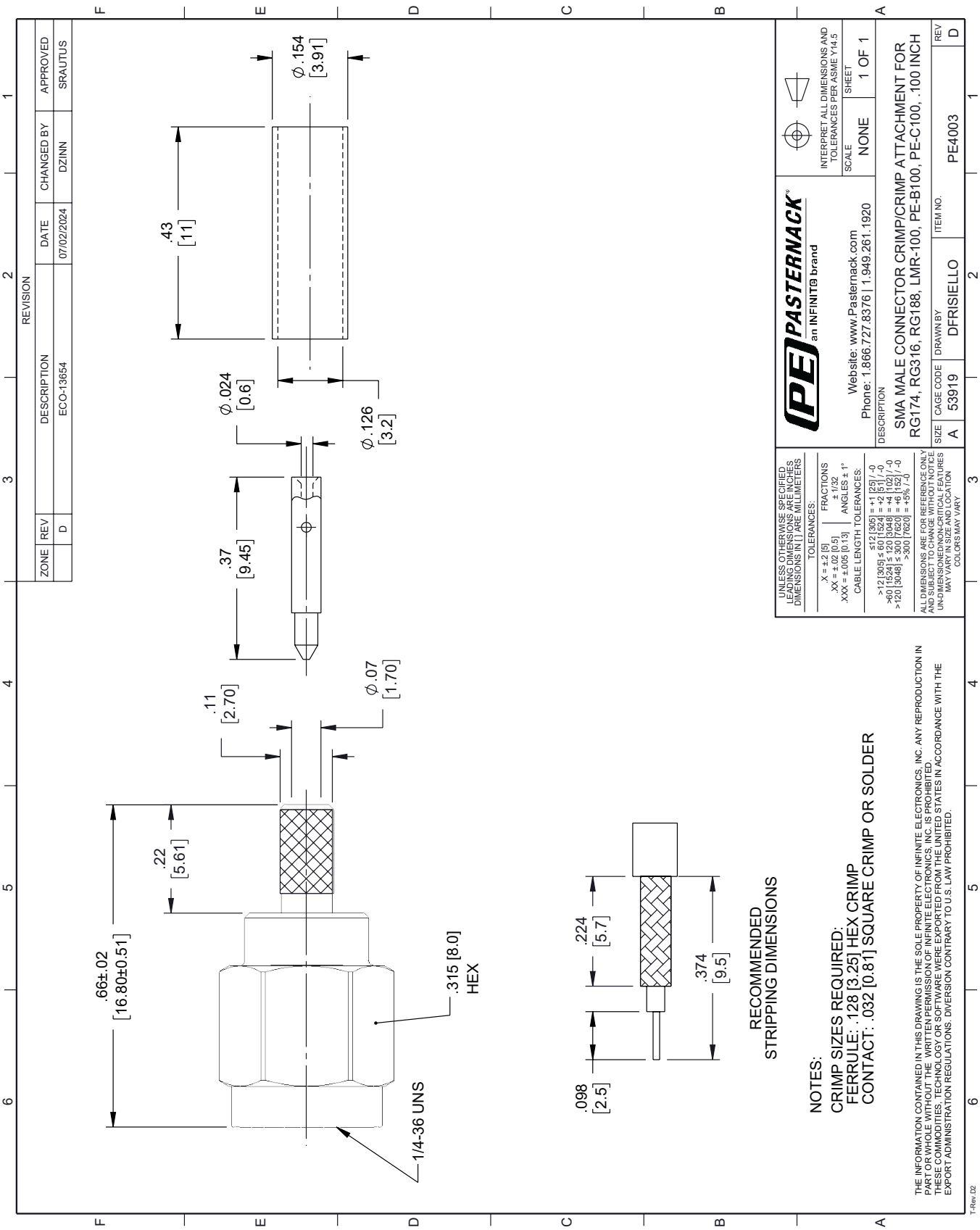
URL: https://www.pasternack.com/sma-male-rg174-rg316-lmr-100-pe-b100-pe-c100-connector-pe4003-p.aspx

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PE4003 CAD Drawing

SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch



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RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket

RF Cables
Technical Data Sheet

RG174NM

Configuration

- Non-Magnetic Flexible Cable
- 1 Shield(s)

Features

- Max Frequency 100 MHz
- Magnetic Susceptibility 10^{-5}

Applications

- General Purpose Test
- Custom Cable Assemblies
- Medical
- Military and Aerospace
- Quantum Computing

Description

RG174NM part number from Pasternack is a RG174 non-magnetic coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a PE dielectric. Our RG174 coax cable is constructed with a jacket made of PVC. This black-colored non-magnetic coax cable has a nominal capacitance of 31.7 pF/Ft.

The RG174 coax RF cable has a shield count of 1. Our coax cable from Pasternack has a maximum frequency of 0.1 GHz. Additional specifications for this RG174NM single-shielded RF coaxial cable are on our downloadable PDF datasheet above. This flexible coax RF cable has a minimum bend radius of 15 in along with 0.021 in of center conductor diameter.

Our RG174 coax cable can operate at temperatures ranging from -40 to +105 degrees C. The RG174NM flexible RF cable has a solid copper center conductor. This black-colored flexible RF cable with a 50 Ohm impedance has a typical insertion loss/ maximum attenuation of 12.5 dB/100ft at a frequency of 0.1 GHz.

Pasternack RG174 non-magnetic coax cables are part of over 40,000 RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using RG174, or other coax can be built and shipped the same business day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		100	MHz
Impedance		50		Ohms
Nominal Capacitance		31.7 [104]		pF/ft [pF/m]

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket RG174NM

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RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket

RF Cables
Technical Data Sheet

RG174NM

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	100					MHz
Attenuation, Typ	12.5					dB/100ft
	41.01					dB/100m

Mechanical Specifications

Min. Bend Radius (Repeated) 1.5 in [38.1 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.021 in [0.53 mm]
Conductor Type	Solid	
Dielectric	PE PE	0.063 in [1.6 mm]
Outer Conductor	Copper 100% coverage	0 in [0 mm]
Jacket	PVC, Black	[ ]

Environmental Specifications

Temperature

Operating Range	-40 to 105 deg C
Storage Range	-40 to 105 deg C

Environmental Specification Notes:
All tests performed in accordance with MIL-DTL-17 (current issue)

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket RG174NM

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RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket

RF Cables
Technical Data Sheet

RG174NM

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC 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: RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket RG174NM

URL: https://www.pasternack.com/non-magnetic-flexible-pvc-jacket-single-shielded-rg174nm-p.aspx

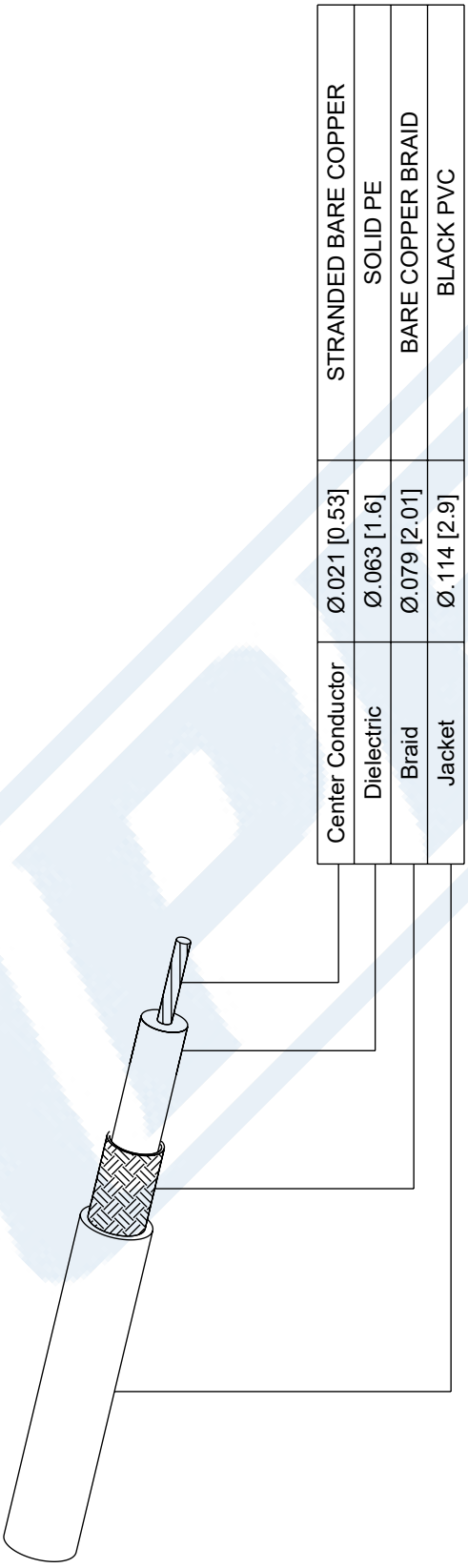
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RG174NM CAD Drawing

RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket



Center Conductor	Ø.021 [0.53]	STRANDED BARE COPPER
Dielectric	Ø.063 [1.6]	SOLID PE
Braid	Ø.079 [2.01]	BARE COPPER BRAID
Jacket	Ø.114 [2.9]	BLACK PVC

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	09/07/2023	KGLEBOVA	AGANWANI

REVISION

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

TOLERANCES: FRACTIONS ± 1/32 | ANGLES ± 1°

.X = ± .2 [5]
.XX = ± .02 [0.5]
.XXX = ± .005 [0.13]

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

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KGLEBOVA	RG174NM	A

SCALE	SHEET
NONE	1 OF 1

DESCRIPTION: RG174 NON MAGNETIC BULK CABLE

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