



QMA Male to TNC Male Cable Using RG142 Coax

RF Cable Assemblies Technical Data Sheet

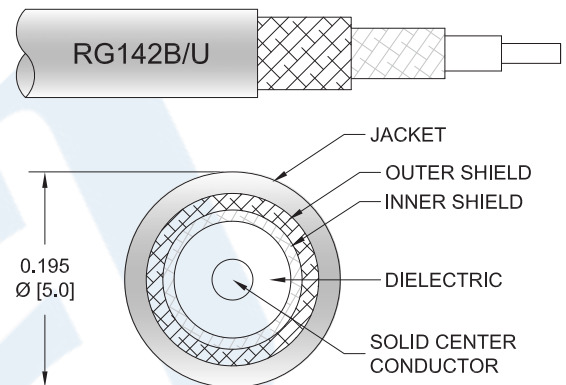
PE3W10618

Configuration

- Connector 1: QMA Male
- Connector 2: TNC Male
- Cable Type: RG142

Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10618 QMA male to TNC male cable using RG142 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 QMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE3W10618 QMA male to TNC male cable assembly operates to 6 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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: [QMA Male to TNC Male Cable Using RG142 Coax PE3W10618](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|------|-------|-------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 6 | GHz |
| Insertion Loss (Typ.) | 0.054 | 0.079 | 0.13 | 0.211 | 0.421 | dB/ft |
| | 0.18 | 0.26 | 0.43 | 0.69 | 1.38 | |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.082 lbs [37.19 g]

Cable

Cable Type RG142
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material FEP, Tan
 Jacket Diameter 0.195 in [4.95 mm]
 Repeated Minimum Bend Radius 1 in [25.4 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male to TNC Male Cable Using RG142 Coax PE3W10618](#)



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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|---------------|-----------------|
| Type | QMA Male | TNC Male |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | | Brass, Gold |
| Contact Plating Specification | | 30 µin minimum |
| Dielectric Type | | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | | 100 µin minimum |
| Coupling Nut Material and Plating | | Brass, Nickel |
| Coupling Nut Plating Specification | | 100 µin minimum |

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:

PE3W10618

- **xx**

uu

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

Example: PE3W10618-12 = 12 inches long cable
PE3W10618-100cm = 100 cm long cable

QMA Male to TNC Male Cable Using RG142 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.

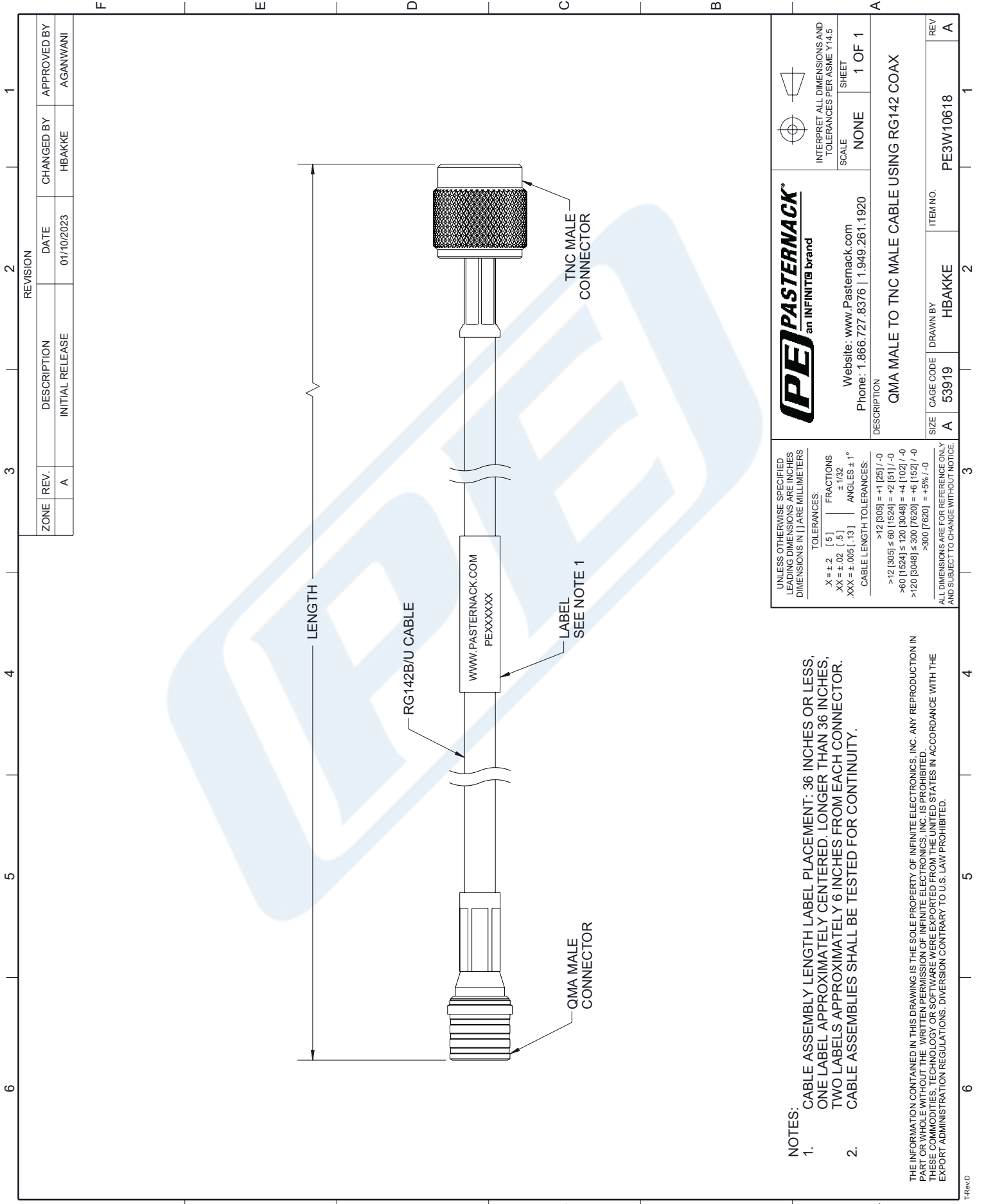
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male to TNC Male Cable Using RG142 Coax PE3W10618](https://www.pasternack.com/qma-male-to-tnc-male-cable-using-rg142-pe3w10618-p.aspx)

URL: <https://www.pasternack.com/qma-male-to-tnc-male-cable-using-rg142-pe3w10618-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.

PE3W10618 CAD Drawing

QMA Male to TNC Male Cable Using RG142 Coax



| | | | |
|--|---|---|--|
| | PE PASTERNAK an INFINITI [®] brand | Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 |
| | | | SCALE: NONE SHEET: 1 OF 1 |

| | |
|---|---------------------|
| DESCRIPTION QMA MALE TO TNC MALE CABLE USING RG142 COAX | |
| SIZE: A | CAGE CODE: 53919 |
| DRAWN BY: HBAKKE | ITEM NO.: PE3W10618 |
| REV: A | SHEET: 1 OF 1 |

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

TOLERANCES:

| | | |
|---------------|---------|-------------|
| X = ± .2 | [.5] | FRACTIONS |
| .XX = ± .02 | [.5] | ± 1/32 |
| .XXX = ± .005 | [.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

NOTES:

- 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. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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