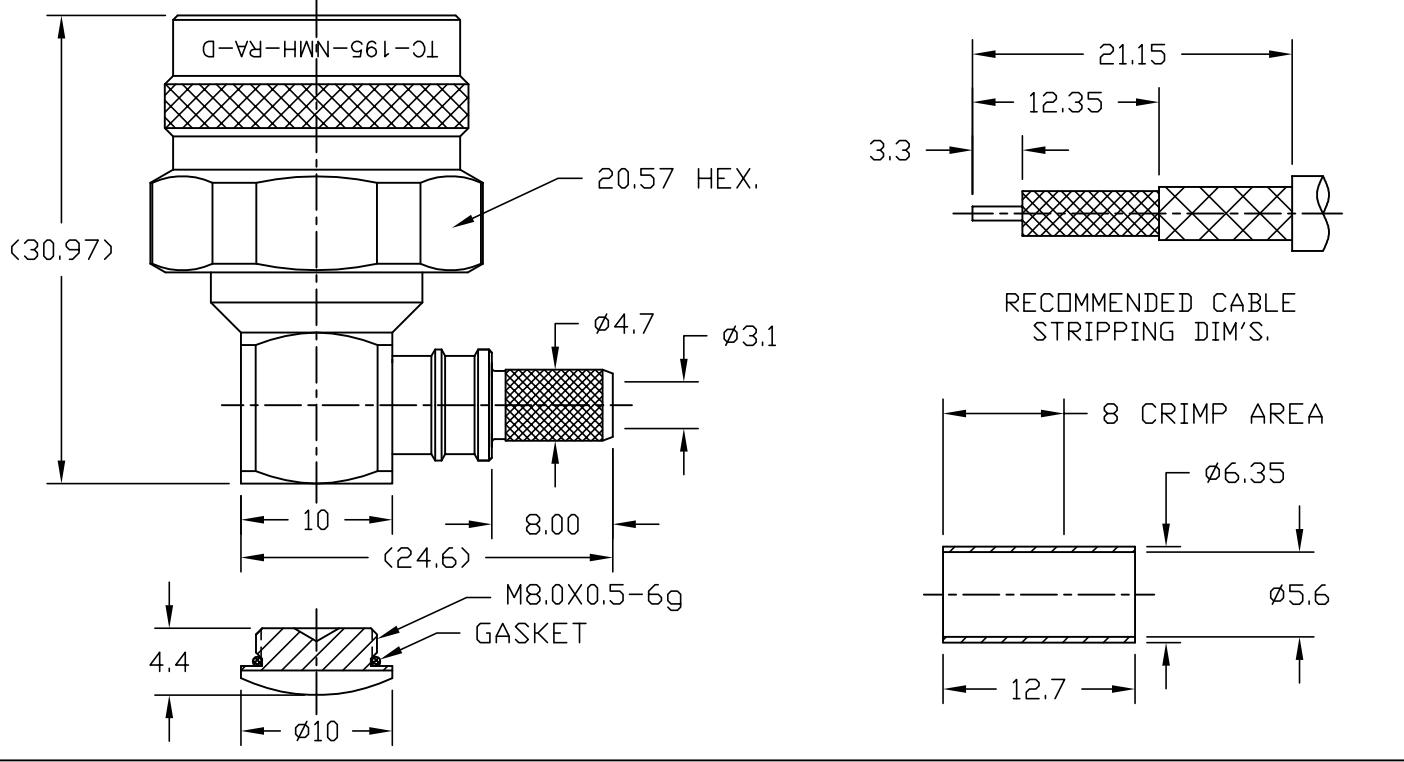


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| | SYM | REVISION DESCRIPTION | DFTM | DATE | APPD | DATE |
|--|-----|-------------------------|----------|---------|----------|---------|
| | A | RELEASED FOR PRODUCTION | D. J. H. | 1/13/09 | J. D. B. | 1/13/09 |
| | B | CHANGED PER CDC #40023 | D. J. H. | 6/2/14 | J. D. B. | 6/4/14 |



NOTES:

1. CONTACT PIN IS SOLDERED.
2. FERRULE IS CRIMPED TO .217" HEX.

ALL PARTS SATISFIED ROHS REQUIREMENTS

| MATERIALS AND PLATING | | UNIT: MICRO-INCHES |
|-----------------------|--------------------|---------------------|
| BODY, SHELL | BRASS C3604 | ALBALOY 80μ"/COPPER |
| CONTACT PIN | BRASS C3604 | GOLD 50μ"/COPPER |
| INSULATOR | TEFLON MIL-P-19468 | NATURAL |
| FERRULE | BRASS | ALBALOY 80μ"/COPPER |
| GASKET | SILICONE | RED |

| ELECTRICAL CHARACTERISTICS | |
|---------------------------------|-------------------------------------------|
| Impedance | 50 Ω |
| Voltage rating | 750 V(rms) |
| Frequency range | 0~6 GHz |
| Dielectric withstanding voltage | 1000V |
| Contact resistance | Center contact≤3 mΩ Outer contact≤2 mΩ |
| Insulation resistance | ≥5000MΩ |
| Insertion loss | According as the cable |
| VSWR | ≤1.2 (DC-2GHz) ≤1.3 (DC-6GHz) |

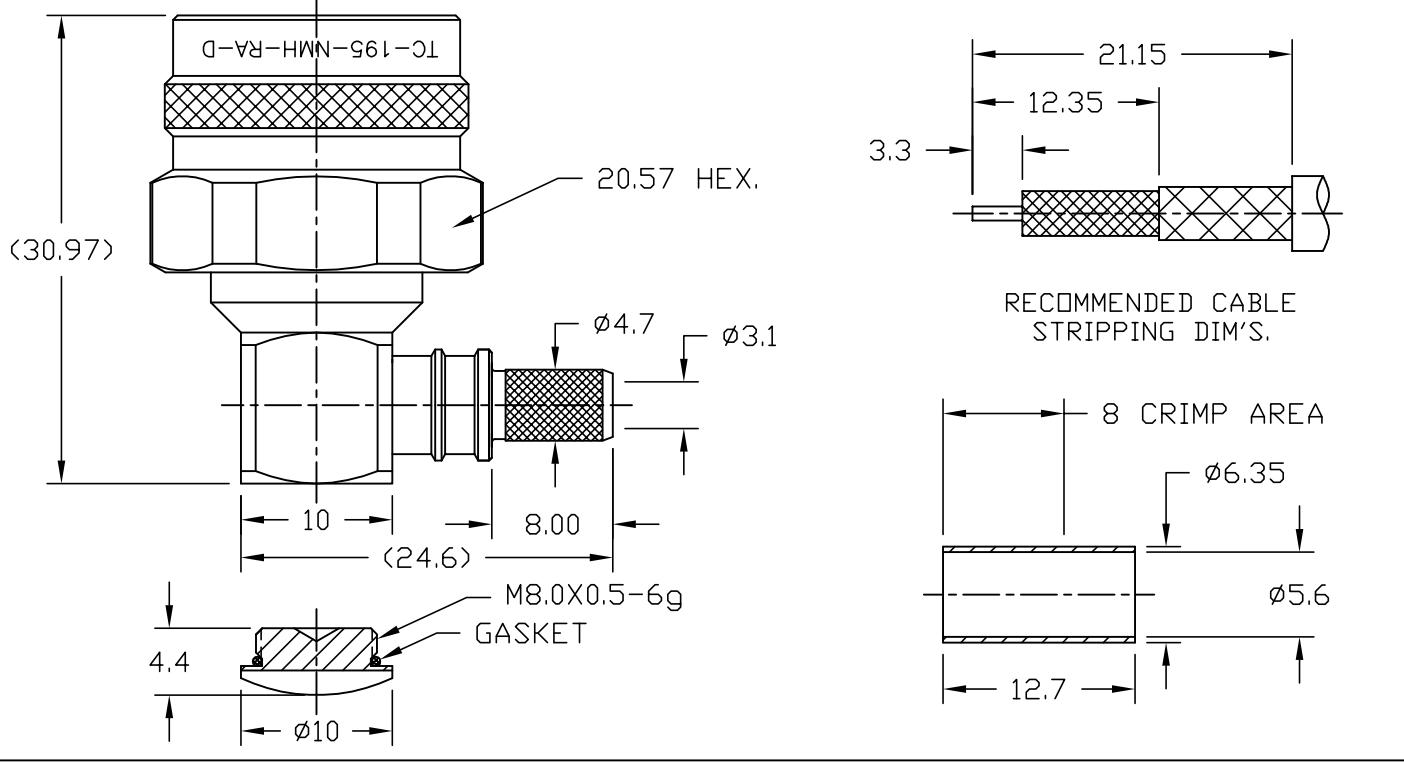
| MECHANICAL CHARACTERISTICS | |
|--------------------------------|--------------|
| Force to engage and disengage | 6 lbs MAX. |
| Center contact retention force | 6 lbs MIN. |
| Recommended Coupling torque | 6-10 in-lbs. |
| Coupling nut retention force | 100 lbs MIN. |
| Durability | ≥ 500 cycles |

| ENVIRONMENTAL CHARACTERISTICS | |
|-------------------------------|-------------------------------------|
| Temperature range | -55°C - +155°C |
| Thermal shock | US MIL- STD 202, Meth. 107, Cond. B |
| Vibration | US MIL- STD 202, Meth. 204, Cond. B |
| Shock | US MIL- STD 202, Meth. 213, Cond. I |
| Climatic class | IEC 60068 65/165/21 |

| | | | | |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| MATERIAL: | UNLESS OTHERWISE SPECIFIED | | DFTM: D. J. H. DATE: 1/13/09 CHKD: J. D. B. DATE: 1/13/09 APPD: J. D. B. DATE: 1/13/09 | TIMES MICROWAVE SYSTEMS TC-195-NMH-RA-D 90° "N" MALE FOR LMR-195 CABLE |
| | ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH 1.6 RMS MAX. REMOVE ALL BURRS 0.15X45° MAX. BREAK MACHINE CORNERS 0.15X45° MAX. FILLET R. TOLERANCES ON DECIMALS . X ± 0.3 . XX ± 0.2 ANGLES ± 3° FRACTIONS ± N/A | | | |
| USED ON: B | SCALE: N/A | DWG SIZE: A | DO NOT SCALE DRAWING | CODE IDENT: 68999 DATE: 1/13/09 |
| | | | SH: 1 of 1 | SD3190-2425 REV: B |

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NOTES:

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| CONTACT PIN | BRASS C3604 | GOLD 50μ"/COPPER |
| INSULATOR | TEFLON MIL-P-19468 | NATURAL |
| FERRULE | BRASS | ALBALOY 80μ"/COPPER |
| GASKET | SILICONE | RED |

ELECTRICAL CHARACTERISTICS

| | |
|---------------------------------|-------------------------------------------|
| Impedance | 50 Ω |
| Voltage rating | 750 V(rms) |
| Frequency range | 0~6 GHz |
| Dielectric withstanding voltage | 1000V |
| Contact resistance | Center contact≤3 mΩ Outer contact≤2 mΩ |
| Insulation resistance | ≥5000MΩ |
| Insertion loss | According as the cable |
| VSWR | ≤1.2 (DC-2GHz) ≤1.3 (DC-6GHz) |

| MECHANICAL CHARACTERISTICS | |
|--------------------------------|--------------|
| Force to engage and disengage | 6 lbs MAX. |
| Center contact retention force | 6 lbs MIN. |
| Recommended Coupling torque | 6-10 in-lbs. |
| Coupling nut retention force | 100 lbs MIN. |
| Durability | ≥ 500 cycles |

| ENVIRONMENTAL CHARACTERISTICS | |
|-------------------------------|-------------------------------------|
| Temperature range | -55°C - +155°C |
| Thermal shock | US MIL- STD 202, Meth. 107, Cond. B |
| Vibration | US MIL- STD 202, Meth. 204, Cond. B |
| Shock | US MIL- STD 202, Meth. 213, Cond. I |
| Climatic class | IEC 60068 65/165/21 |

| | | | | |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| MATERIAL: | UNLESS OTHERWISE SPECIFIED | | DFTM: D. J. H. DATE: 1/13/09 CHKD: J. D. B. DATE: 1/13/09 APPD: J. D. B. DATE: 1/13/09 | TIMES MICROWAVE SYSTEMS TC-195-NMH-RA-D 90° "N" MALE FOR LMR-195 CABLE |
| | ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH 1.6 RMS MAX. REMOVE ALL BURRS 0.15X45° MAX. BREAK MACHINE CORNERS 0.15X45° MAX. FILLET R. TOLERANCES ON DECIMALS . X ± 0.3 . XX ± 0.2 ANGLES ± 3° FRACTIONS ± N/A | | | |
| USED ON: B | SCALE: N/A | DWG SIZE: A | DO NOT SCALE DRAWING | CODE IDENT: 68999 DATE: 1/13/09 |
| | | | SH: 1 of 1 | SD3190-2425 REV: B |

Flexible RG141 Coax Cable Single Shielded with Beige PTFE (Fiberglass reinforced) Jacket

RF Cables Technical Data Sheet

RG141A/U

Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 10 | GHz |
| Impedance | | 50 ±2 | | Ohms |
| Velocity of Propagation | | 70 | | % |
| Dielectric Withstanding Voltage (AC) | | | 5,000 | Vrms |
| Jacket Spark | | | 2,000 | Vrms |
| Nominal Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|------------------|------|------|-------|--------|--------|----------|
| Frequency | 0.01 | 0.1 | 1 | 5 | 10 | GHz |
| Attenuation, Typ | 1.2 | 3.9 | 13 | 36 | 62 | dB/100ft |
| | 3.94 | 12.8 | 42.65 | 118.11 | 203.41 | dB/100m |

Mechanical Specifications

| | |
|----------|--------------------------|
| Diameter | 0.19 in [4.83 mm] |
| Weight | 0.033 lbs/ft [0.05 Kg/m] |

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|--------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strands | 0.037 in [0.94 mm] |
| Conductor Type | Solid | |
| Dielectric | PTFE | 0.116 in [2.95 mm] |
| First Shield | Silver Plated Copper | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG141 Coax Cable Single Shielded with Beige PTFE \(FG\) Jacket RG141A/U](#)

Flexible RG141 Coax Cable Single Shielded with Beige PTFE (Fiberglass reinforced) Jacket

RF Cables Technical Data Sheet

RG141A/U

| | | |
|--------|------------------|-------------------|
| Jacket | PTFE (FG), Beige | 0.19 in [4.83 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 RG141 Coax Cable Single Shielded with Beige PTFE (Fiberglass reinforced) 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.

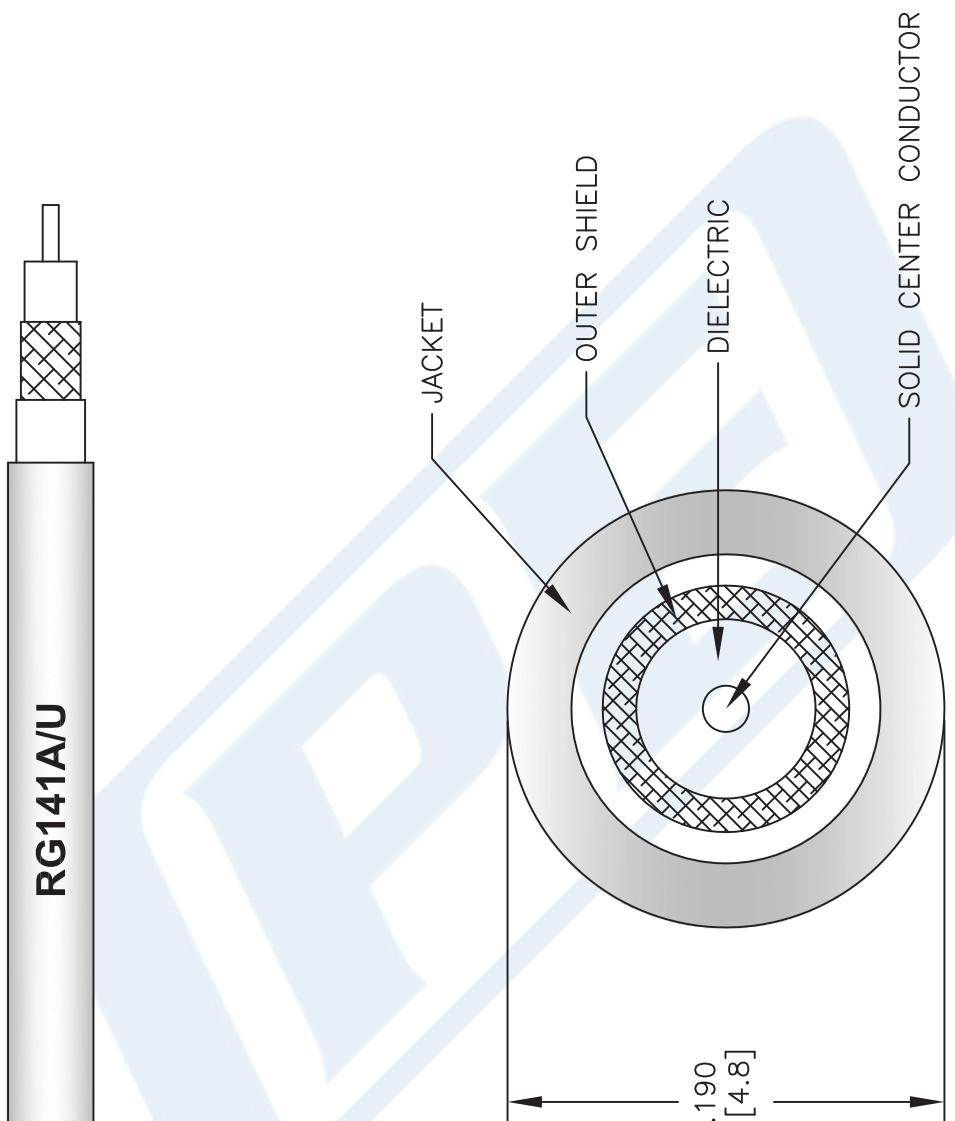
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URL: <https://www.pasternack.com/flexible-0.190-rg141-50-ohm-coax-cable-ptfe-fr-jacket-rg141a-u-p.aspx>

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.

RG141A/U CAD Drawing

Flexible RG141 Coax Cable Single Shielded with Beige
PTFE (Fiberglass reinforced) Jacket



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].

| DWG TITLE | |
|-----------|----------|
| REV. A | RG141A/U |

| REV. A | FSCM NO. | CAD FILE | SCALE | SIZE | A |
|--------|----------|----------|-------|------|-----|
| | 53919 | 02808-A | N/A | | 147 |

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| PE PASTERNACK® Pasternack Enterprises, Inc. P.O. Box 16759 Irvine CA 92623 Phone: (949) 261-1920 Fax: (949) 261-7451 Website: www.pasternack.com E-Mail: sales@pasternack.com | 3 |
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