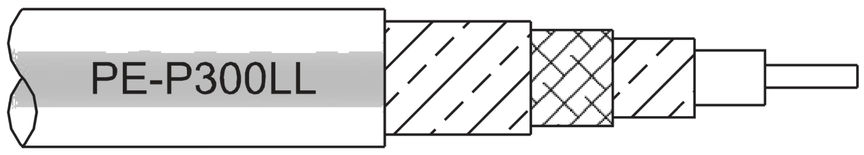
N Female to N Female Bulkhead Low Loss Test Cable 60 Inch Le
ngth Using ET38354 Coax

# RF Cable Assemblies Technical Data Sheet ET28627

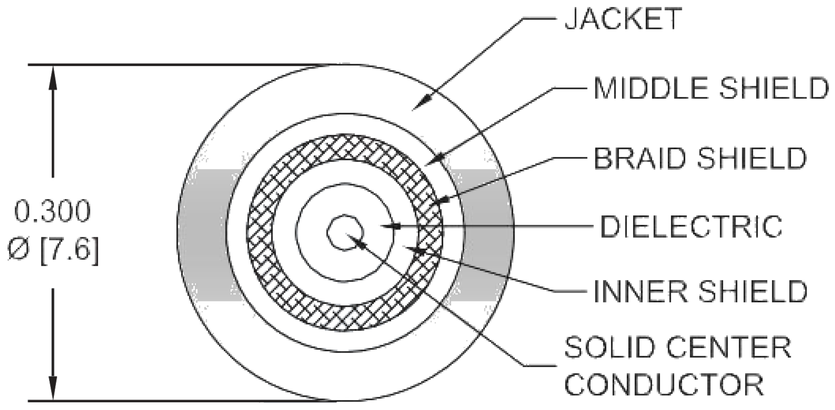
## Configuration

- Connector 1: N Female
- Connector 2: N Female Bulkhead
- Cable Type: ET38354




## Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.40:1 to 18 GHz
- Minimum Bend Radius of 1.5 inches
- Operating Temperature range of -55 to +125 °C
- ROHS Compliant
- Same day shipment of custom lengths
- 100% Continuity and RF tested




### Description

The ET3C3247 high performance test cable's 0.3 inch diameter and 83% phase velocity offer very low loss performance up to 18 GHz. The durable stainless steel connectors and FEP jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. The series is offered with Type N, TNC, and SMA connectors all rated to 18 GHz. A heavy Duty boot provides improved strain relief and adds to the durability of the cable assemblies. These cable assemblies are built using a double shielded flexible cable, providing excellent shielding effectiveness of greater than 95 dB. All ET3C327 cable assemblies are 100% Continuity and RF tested to published specifications. Custom lengths are built to order and shipped same day.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 83 | | % |
| RF Shielding | 95 | | | dB |
| Capacitance | | 25 [82.02] | | 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: N Female to N Female Bulkhead Low Loss Test Cable 60 Inch Length Using ET38354 Coax, RoHS ET28627

8th Floor, Building 1, Yongfu Science and Technology Center Industrial Park,
Nanzha District 5, Humen,523900, Dongguan, Guangdong, China.

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## Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 1 | 2 | 4.5 | 9 | 18 | GHz |
| Insertion Loss (Max.) | 0.5 | 0.6 | 0.8 | 1.1 | 1.5 | dB |
| Insertion Loss (Typ.) | 0.45 | 0.55 | 0.7 | 0.95 | 1.3 | dB |
| Power Handling (Max.) | 1,800 | 1,200 | 900 | 650 | 400 | Watts |

## Mechanical Specifications

### Cable Assembly

| | |
|---|---|
| Length* | 60 in [152.4 cm] |
| Diameter | 0.875 in [22.23 mm] |
| Weight | 4.934 lbs [2.24 Kg] |

### Cable

| | |
|---|---|
| Cable Type | ET38354 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 3 |
| Shield Layer 1 | Silver Plated Copper Tape |
| Shield Layer 2 | Aluminum Polyester |
| Shield Layer 3 | Silver Plated Copper Wire |
| Jacket Material | FEP, Green |
| Jacket Diameter | 0.3 in [7.62 mm] |
| Repeated Minimum Bend Radius | 1.5 in [38.1 mm] |

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# RF Cable Assemblies Technical Data Sheet ET28627

### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | N Female | N Female Bulkhead |
| Specification | MIL-STD-348 | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | | 500 |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold over Nickel |
| Contact Plating Specification | ASTM-B488 50µ in. minimum | 50 µin minimum |
| Dielectric Type | PEI | PEI |
| Outer Conductor Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Outer Conductor Plating Specification | SAE-AMS-2700 | SAE-AMS-2700 |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 | SAE-AMS-2700 |
| Torque | | 20 in-lbs [2.26 Nm] |

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8”, whichever is greater.

## Environmental Specifications

**Temperature**

Operating Range -55 to +165 deg C

## Compliance Certifications (see product page for current document)

## Plotted and Other Data

Notes:

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# RF Cable Assemblies Technical Data Sheet ET28627

## How to Order

Part Number Configuration: **ET3C3247 - xx uu**

- ET3C3247 — Base Number
- xx — Length
- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches

Example: ET3C3247-12 = 12 inches long cable
ET3C3247-100cm = 100 cm long cable

N Female to N Female Bulkhead Low Loss Test Cable 60 Inch Length Using ET38354 Coax, RoHS from Ebeestock 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: N Female to N Female Bulkhead Low Loss Test Cable 60 Inch Length Using ET38354 Coax, RoHS ET28627

**URL:** https://www.ebeestock.com/n-female-to-n-female-bulkhead-low-loss-test-cable-12-inch-length-using-pe-p300ll-coax-0028623

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. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

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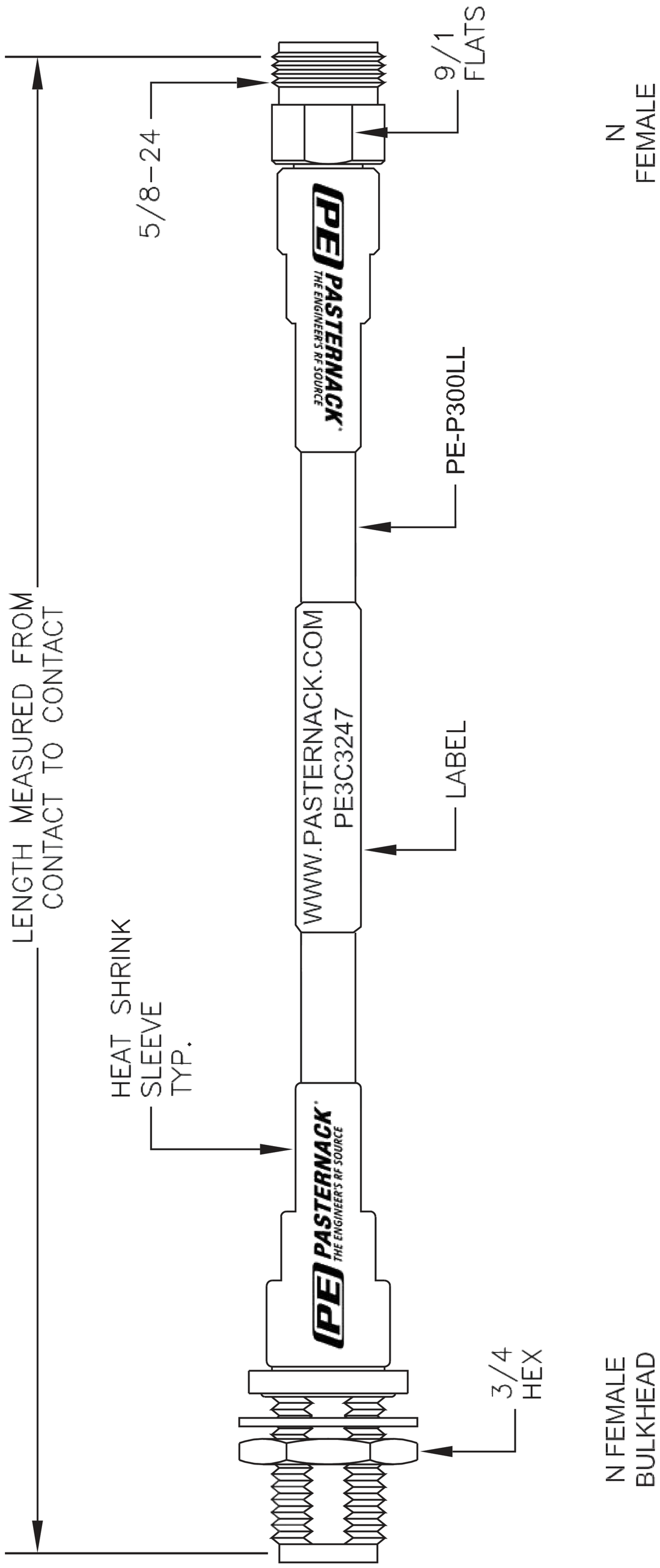
# ET28627 CAD Drawing

N Female to N Female Bulkhead Low Loss Test Cable
60 Inch Length Using ET38354 Coax, RoHS




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. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE
**PE C3247**

| SIZE | SCALE | CAD FILE | 2233 |
|---|---|---|---|
| A | N/A | 062116 | |

FSCM NO. 53919

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