



## TNC Female Connector Clamp/Solder Attachment 4 Hole Flange Mount for RG316-DS, RG188-DS, IP67 Rated

### RF Connectors Technical Data Sheet

PE44901

#### Configuration

- TNC Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG316-DS, RG188-DS Interface Type
- Clamp/Solder Attachment
- 4 Hole Flange

#### Features

- Max. Operating Frequency 2 GHz
- Gold Plated Beryllium Copper Contact
- IP67 Rated

#### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

#### Description

Pasternack's PE44901 TNC female 4 hole flange mount connector with clamp/solder attachment for RG316-DS and RG188-DS is part of our full line of RF components available for same-day shipping. Our TNC female connector operates up to a maximum frequency of 2 GHz. This TNC 4 hole flange connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The connector has an IP67 rating to protect against dust and temporary moisture protection under immersion conditions.

Our TNC female 4 hole flange connector PE44901 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      |         | 2       | GHz   |

#### Mechanical Specifications

|             |                    |
|-------------|--------------------|
| <b>Size</b> |                    |
| Length      | 1.2 in [30.48 mm]  |
| Width/Dia.  | 0.69 in [17.53 mm] |
| Weight      | 0.043 lbs [19.5 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Connector Clamp/Solder Attachment 4 Hole Flange Mount for RG316-DS, RG188-DS, IP67 Rated PE44901](#)



## TNC Female Connector Clamp/Solder Attachment 4 Hole Flange Mount for RG316-DS, RG188-DS, IP67 Rated

### RF Connectors Technical Data Sheet

PE44901

#### Material Specifications

| Description | Material         | Plating |
|-------------|------------------|---------|
| Contact     | Beryllium Copper | Gold    |
| Insulation  | PTFE             |         |
| Body        | Brass            | Nickel  |

#### Environmental Specifications

Ingress Protection (IP) Rating

IP67 Rated

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

TNC Female Connector Clamp/Solder Attachment 4 Hole Flange Mount for RG316-DS, RG188-DS, IP67 Rated 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.

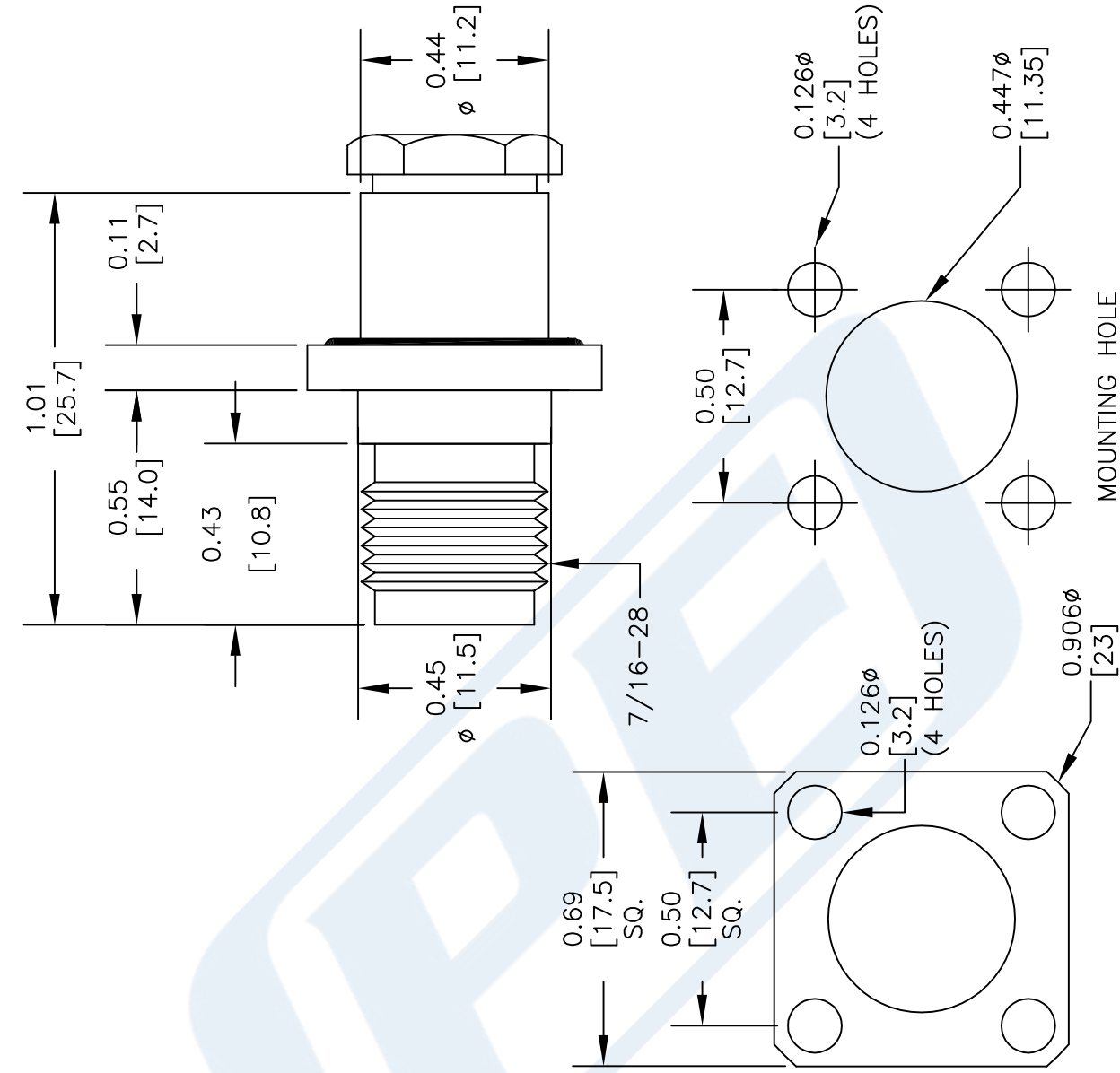
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URL: <https://www.pasternack.com/tnc-female-standard-rg316-u-rg174a-u-lmr-100-connector-pe44901-p.aspx>

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.

# PE44901 CAD Drawing

TNC Female Connector Clamp/Solder Attachment 4 Hole Flange  
Mount for RG316-DS, RG188-DS, IP67 Rated



## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. TRIM CABLE AS SHOWN
2. SLIDE CRIMP FERRULE & BACK NUT ONTO CABLE
3. CRIMP FERRULE USING 0.151" HEX DIE
4. CRIMP OR SOLDER BULLET CONTACT TO THE CENTER CONDUCTOR, INSERT CABLE WITH BULLET CONTACT INTO BODY
5. APPLY THREAD LOCKING ADHESIVE ON THE THREADS OF THE BACK NUT
6. TORQUE BACK NUT TO 15 INCH-LBS

## CRIMP SIZE REQUIRED

CONTACT: CRIMP OR SOLDER  
FERRULE: .151" HEX CRIMP TOOL



Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE

**PE44901**

- 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.

FSCM NO. 53919

CAD FILE

102223

SCALE N/A

SIZE A

150



BNC Male Connector Crimp/Solder Attachment  
for RG316-DS, RG188-DS Up to 4GHz

TECHNICAL DATA SHEET

PE45114

**Configuration**

|                                    |                    |
|------------------------------------|--------------------|
| Connector                          | BNC Male           |
| Connector Specification            | MIL-STD-348A       |
| Connector Interface Type           | RG316-DS, RG188-DS |
| Attachment Method (Shield/Contact) | Crimp/Solder       |
| Body Style                         | Straight           |

**Electrical Specifications**

|                           |             |
|---------------------------|-------------|
| Frequency Range           | DC to 4 GHz |
| Impedance                 | 50 Ohms     |
| Maximum Operating Voltage | 335 Volts   |

**Frequency 1**

|           |             |
|-----------|-------------|
| Frequency | DC to 3 GHz |
| VSWR      | 1.25:1      |

**Mechanical Specifications**

**Temperature**

|                 |                   |
|-----------------|-------------------|
| Operating Range | -65 to +165 deg C |
|-----------------|-------------------|

**Size**

|            |                    |
|------------|--------------------|
| Length     | 1.11 in [28.19 mm] |
| Width/Dia. | 0.57 in [14.48 mm] |

**Connector**

|                                    |                  |
|------------------------------------|------------------|
| Type                               | BNC Male         |
| Contact Material and Plating       | Brass, Gold      |
| Contact Plating Specification      | 50µ in. minimum  |
| Coupling Nut Material and Plating  | Brass, Nickel    |
| Coupling Nut Plating Specification | 100µ in. minimum |
| Body Material and Plating          | Brass, Nickel    |
| Body Plating Specification         | 100µ in. minimum |
| Dielectric Type                    | Teflon           |

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz PE45114](#)



## BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz

### TECHNICAL DATA SHEET

PE45114

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level

BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz 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.

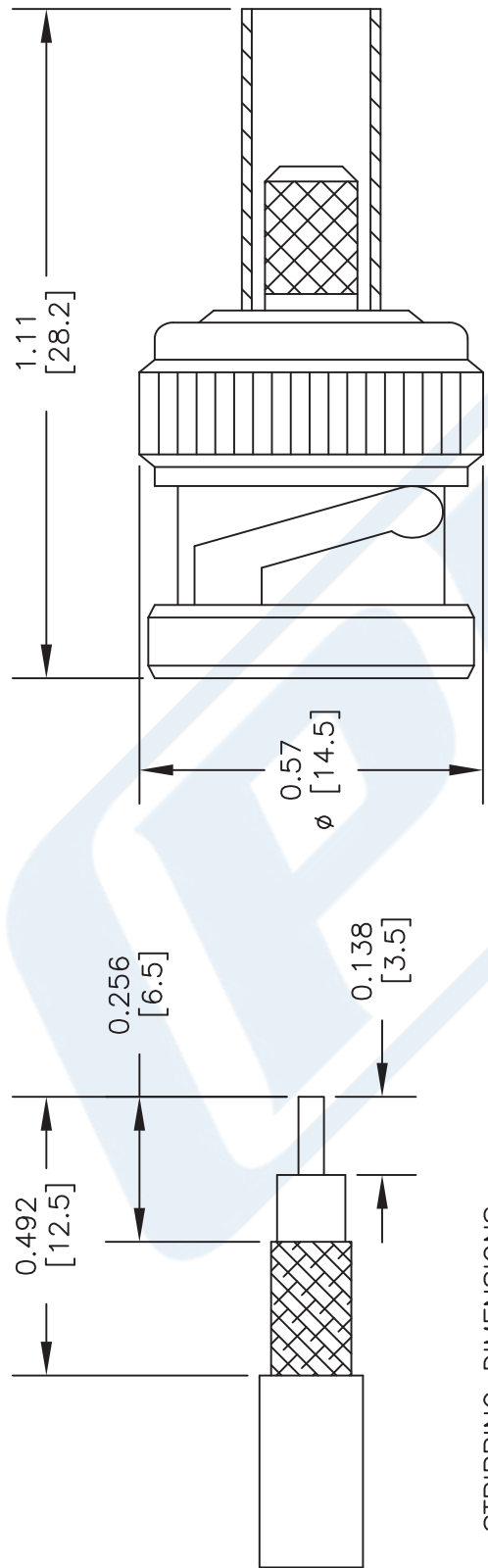
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz PE45114](http://www.pasternack.com/bnc-male-rg316-ds-rg188-ds-connector-pe45114-p.aspx)

URL: <http://www.pasternack.com/bnc-male-rg316-ds-rg188-ds-connector-pe45114-p.aspx>

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# PE45114 CAD Drawing

BNC Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS Up to 4GHz



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: 0.151" 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  
**PE45114**

FSCM NO. 53919

CAD FILE 012815

SCALE N/A

SIZE A

2233

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE  
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



## Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

RG316-DS

#### Configuration

- Flexible Cable
- 2 Shield(s)

#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 3       | GHz          |
| Impedance               |         | 50           |         | Ohms         |
| Velocity of Propagation |         | 70           |         | %            |
| Operating Voltage (AC)  |         |              | 1,200   | 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      | 11.5  | 17.2  | 30    | 54.5   |    | dB/100ft |
|                       | 37.73 | 56.43 | 98.43 | 178.81 |    | dB/100m  |
| Input Power (CW), Max | 430   | 210   | 130   |        |    | Watts    |

#### Mechanical Specifications

|                             |                          |
|-----------------------------|--------------------------|
| Diameter                    | 0.114 in [2.9 mm]        |
| Weight                      | 0.015 lbs/ft [0.02 Kg/m] |
| Min. Bend Radius (Repeated) | 0.591 in [15.01 mm]      |

#### Construction Specifications

| Description     | Material and Plating       | Diameter        |
|-----------------|----------------------------|-----------------|
| Inner Conductor | Copper Clad Steel, Silver7 | 0.02 in 0.51 mm |
| Conductor Type  | Stranded                   |                 |
| Dielectric      | PTFE                       | 0.06 in 1.52 mm |
| First Shield    | Silver Plated Copper Braid |                 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

## Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket

### RF Cables Technical Data Sheet

**RG316-DS**

|               |                            |                   |
|---------------|----------------------------|-------------------|
| Second Shield | Silver Plated Copper Braid | 0.094 in 2.39 mm  |
| Jacket        | FEP, Tan                   | 0.114 in [2.9 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 RG316-DS Coax Cable Double 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 RG316-DS Coax Cable Double Shielded with Tan FEP Jacket RG316-DS](#)

URL: <https://www.pasternack.com/flexible-0.114-rg316-ds-50-ohm-coax-cable-fep-jacket-rg316-ds-p.aspx>

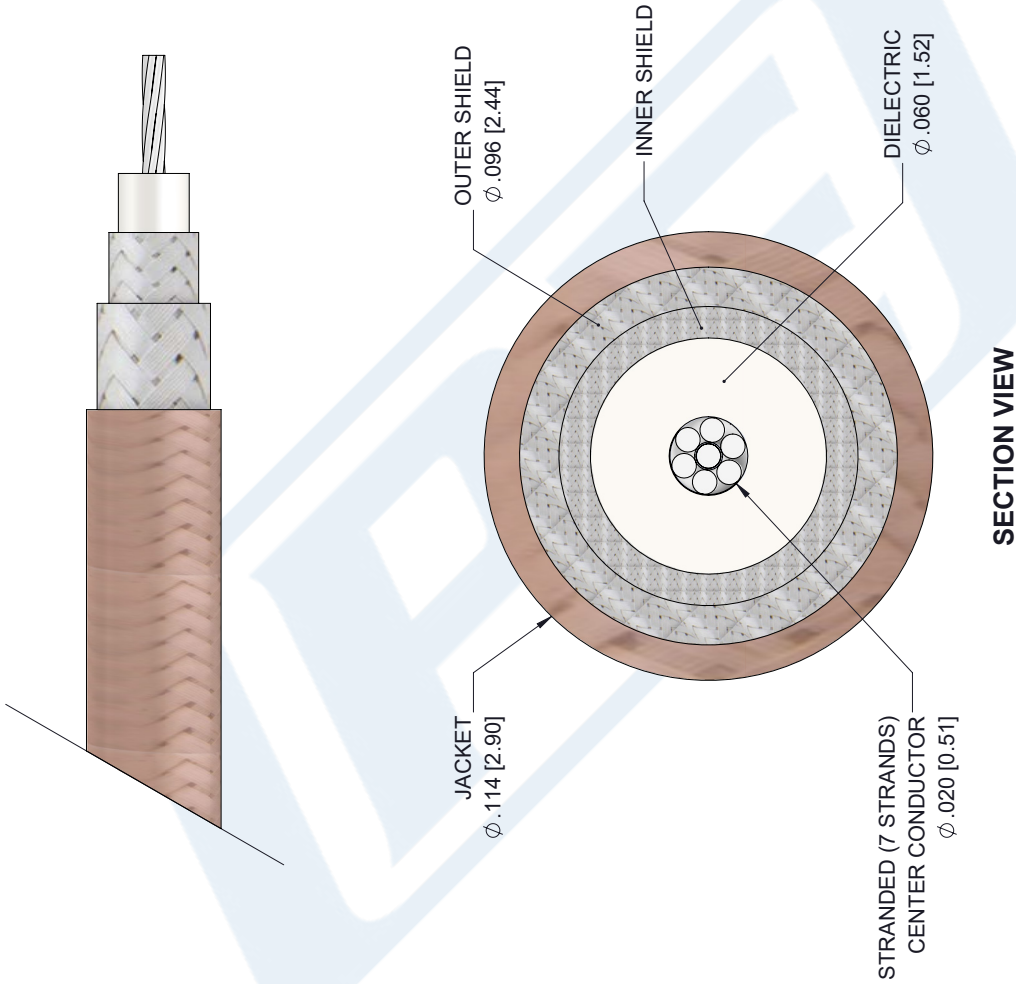
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RG316-DS CAD Drawing

Flexible RG316-DS Coax Cable Double Shielded with Tan FEP Jacket

| REVISIONS |                       |          |          |
|-----------|-----------------------|----------|----------|
| REV.      | DESCRIPTION           | DATE     | APPROVED |
| 1.1       | PCR RG316-DS 20190701 | 07/15/19 | S.ELLIS  |



|  |             |
|--|-------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |             |
| TOLERANCES:  | FRACTIONS   |
| X±.2 [5.08]  | ±.132       |
| XX±.01 [.25]   |             |
| XXX±.005 [.13]   | ANGLES ± 1° |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.  |             |
| THIRD-ANGLE PROJECTION   |             |
|  |             |

|   |             |
|---|-------------|
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| SIZE  | PART NUMBER |
| A   | RG316-DS    |
| CAGE  | REV         |
| 53919   | A           |
| DRAWN BY  |             |
| K.Dang  |             |

|  |     |
|--|-----|
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| SCALE  | N/A |

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