



N Male Connector Crimp/Crimp Attachment for RG55, RG141, RG142, RG223, RG400

RF Connectors Technical Data Sheet

PE4042

Configuration

- N Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- RG55, RG141, RG142, RG223, RG400 Interface Type
- Crimp/Crimp Attachment

Features

- Max. Operating Frequency 12.4 GHz
- Silver Plated Brass Contact
- Contact plating according to ASTM-B700

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4042 type N male connector with crimp/crimp attachment for RG55, RG141, RG142, RG223 and RG400 is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 12.4 GHz.

Our type N male connector PE4042 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 |
| Dielectric Withstanding Voltage (AC) | | | 700 | Vrms |

Mechanical Specifications

Size

Length
Width/Dia.
Weight

1.43 in [36.32 mm]
0.812 in [20.62 mm]
0.072 lbs [32.66 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Crimp Attachment for RG55, RG141, RG142, RG223, RG400 PE4042](#)



N Male Connector Crimp/Crimp Attachment for RG55, RG141, RG142, RG223, RG400

RF Connectors Technical Data Sheet

PE4042

Material Specifications

| Description | Material | Plating |
|--------------|----------|---------------------|
| Contact | Brass | Silver ASTM-B700 |
| Insulation | PTFE | |
| Body | Brass | Nickel ASTM-B689 |
| Coupling Nut | Brass | Nickel ASTM-B689 |

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

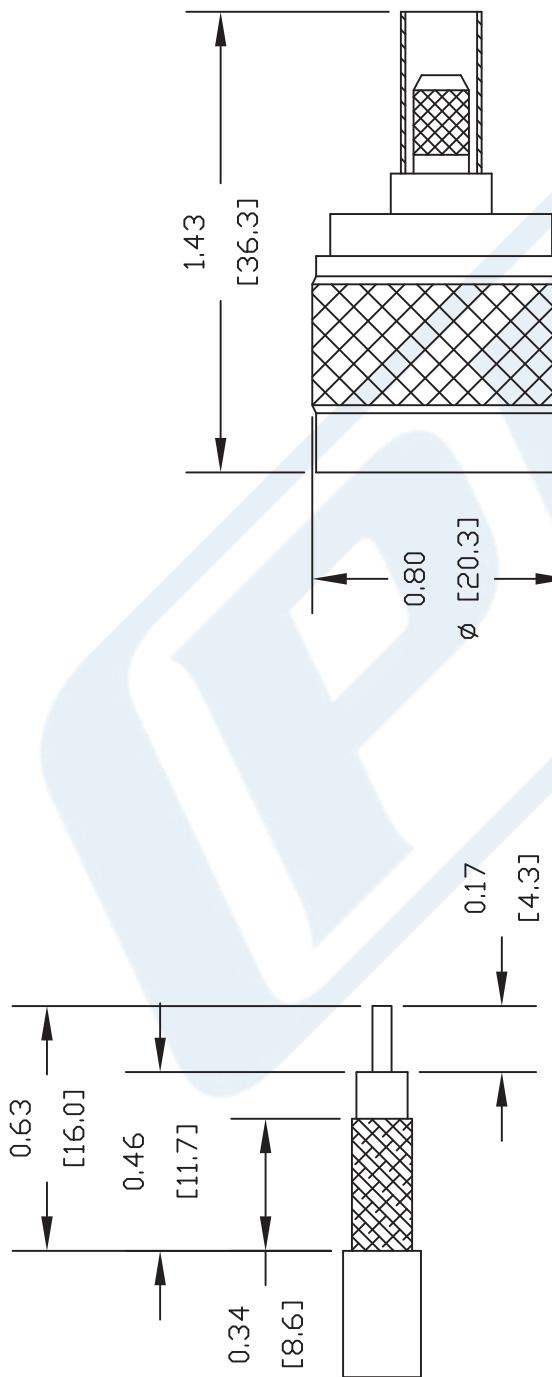
Notes:

N Male Connector Crimp/Crimp Attachment for RG55, RG141, RG142, RG223, RG400 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: [N Male Connector Crimp/Crimp Attachment for RG55, RG141, RG142, RG223, RG400 PE4042](#)

URL: <https://www.pasternack.com/n-male-standard-rg55-rg141-rg142-rg223-rg400-connector-pe4042-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.

CRIMP SIZES REQUIRED

CONTACT: .068" HEX CRIMP TOOL
FERRULE: .213" HEX CRIMP TOOL

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

DWG TITLE
PE4042

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.

| REV.A | FSCM NO. | 53919 | CAD FILE | 051310 | SCALE | N/A | SIZE A | 127 |
|-------|----------|-------|----------|--------|-------|-----|--------|-----|
|-------|----------|-------|----------|--------|-------|-----|--------|-----|



BNC Female Bulkhead Connector Clamp/Solder Attachment For RG58, RG55, RG141, RG142, RG223, RG400, .480 inch D Hole

TECHNICAL DATA SHEET

PE4078

BNC Female Bulkhead Connector Clamp/Solder Attachment For RG58, RG55, RG141, RG142, RG223, RG400, .480 inch D Hole

Configuration

| | |
|--|-----------------------------------|
| Connector | BNC Female |
| Connector Specification | MIL-STD-348A |
| Connector Interface Type | RG58,RG55,RG141,RG142,RG223,RG400 |
| Cable Attachment Method (Shield/Contact) | Clamp/Solder |
| Body Style | Straight |
| Mount Method | Bulkhead |

Electrical Specifications

| | |
|---------------------------------------|---------|
| Frequency Range, GHz | DC to 4 |
| Impedance, Ohms | 50 |
| Maximum Operating Voltage, Volts | 500 |
| Dielectric Withstanding Voltage, Vrms | 1,500 |

Frequency 1

| | |
|----------------|---------|
| Frequency, GHz | DC to 2 |
| VSWR | 1.3:1 |

Mechanical Specifications

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

Size

| | |
|---------------------|--------------|
| Length, in [mm] | 1.15 [29.21] |
| Width/Dia., in [mm] | 0.687 [17] |
| Weight, lbs [g] | 0.041 [18.6] |

Connector

| | |
|-------------------------------|-----------------------|
| Type | BNC Female |
| Contact Material and Plating | Brass, Gold |
| Contact Plating Specification | 30 μ in. minimum |
| Body Material and Plating | Brass, Nickel |
| Body Plating Specification | 100 μ in. minimum |
| Dielectric Type | Teflon |

Compliance Certifications

(visit www.Pasternack.com for current document)

RoHS Compliant Yes

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Female Bulkhead Connector Clamp/Solder Attachment For RG58, RG55, RG141, RG142, RG223, RG400, .480 inch D Hole PE4078](#)

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.

BNC Female Bulkhead Connector Clamp/Solder Attachment For
RG58, RG55, RG141, RG142, RG223, RG400, .480 inch D Hole



TECHNICAL DATA SHEET

PE4078

Plotted and Other Data

Notes:

Values at 25 °C, sea level

URL: <http://www.pasternack.com/bnc-female-standard-rg58-rg55-rg141-rg142-rg223-rg400-connector-pe4078-p.aspx>

BNC Female Bulkhead Connector Clamp/Solder Attachment For RG58, RG55, RG141, RG142, RG223, RG400, .480 inch D Hole from Pasternack Enterprises has same day shipment for domestic and International orders. We maintain 99% availability of the industry's broadest selection of RF, microwave and fiber optic products.

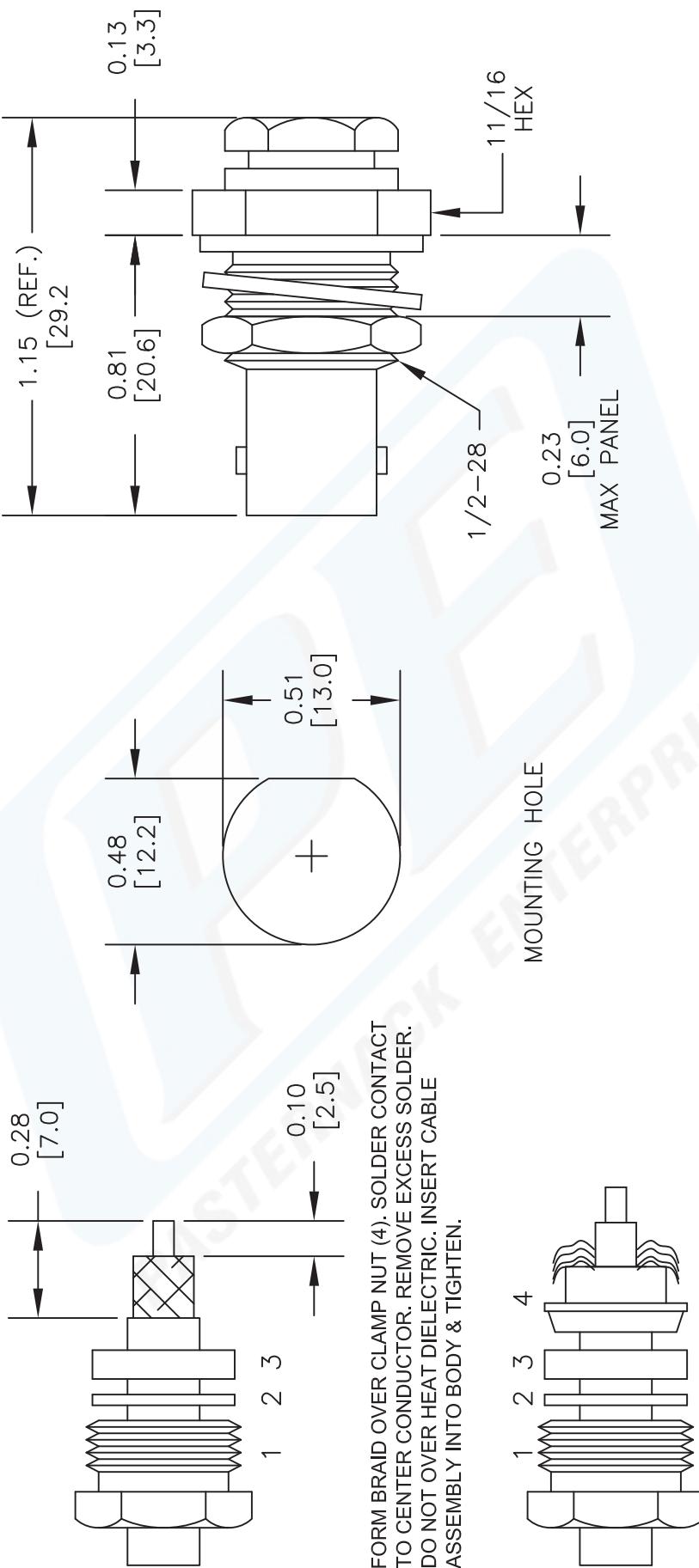
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal.

PE4078 CAD Drawing

BNC Female Bulkhead Connector Clamp/Solder Attachment For RG58,
RG55, RG141, RG142, RG223, RG400, .480 inch D Hole

ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1), WASHER (2) & GASKET (3) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF BRAID CLAMP (4). SLIDE BRAID CLAMP (4) OVER BRAID & SEAT AGAINST CABLE.



2. FORM BRAID OVER CLAMP NUT (4). SOLDER CONTACT TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.

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
PE4078

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

| REV. C | FSCM NO. | 53919 | CAD FILE | 030512 | SCALE N/A | SIZE A | 2233 |
|--------|----------|-------|----------|--------|-----------|--------|------|
|--------|----------|-------|----------|--------|-----------|--------|------|

Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket

TECHNICAL DATA SHEET

RG142B/U

Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket

Configuration

| | |
|--------------------------------------|--|
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Shield Materials | Silver Plated Copper Braid, Silver Plated Copper Braid |
| Jacket Material and Color | FEP, Tan |

Electrical Specifications

| | |
|----------------------------------|--------------|
| Impedance, Ohms | 50 |
| Velocity of Propagation, % | 69.2 |
| Maximum Operating Frequency, GHz | 8 |
| RF Shielding, dB | 90 |
| Capacitance, pF/ft [pF/m] | 29.4 [96.46] |
| Maximum Operating Voltage, Volts | 1,900 |

Electrical Specifications by Frequency

Frequency 1

| | |
|---------------------------------|------------|
| Frequency, MHz | 100 |
| Attenuation, dB/100ft [dB/100m] | 3.9 [12.8] |

Frequency 2

| | |
|---------------------------------|------------|
| Frequency, MHz | 1000 |
| Attenuation, dB/100ft [dB/100m] | 13 [42.65] |

Frequency 3

| | |
|---------------------------------|--------------|
| Frequency, GHz | 3 |
| Attenuation, dB/100ft [dB/100m] | 23.8 [78.08] |

Frequency 4

| | |
|---------------------------------|-------------|
| Frequency, GHz | 5 |
| Attenuation, dB/100ft [dB/100m] | 36 [118.11] |

Mechanical Specifications

Temperature

| | |
|------------------------|-------------|
| Operating Range, deg C | -55 to +200 |
|------------------------|-------------|

Inner Conductor

| | |
|-------------------|-------------------|
| Number of Strands | 1 |
| Material | Copper Clad Steel |
| Plating | Silver |
| Diameter, in [mm] | 0.037 [0.94] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket RG142B/U](#)

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.

Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket

TECHNICAL DATA SHEET

RG142B/U

Dielectric:

Type PTFE
Diameter, in [mm] 0.116 [2.95]

Shield:

Number of 2
Material 1 Silver Plated Copper Braid
Material 2 Silver Plated Copper Braid
Diameter, in [mm] 0.156 [3.96]

Jacket:

Material FEP
Diameter, in [mm] 0.195 [4.95]
Color Tan
One Time Minimum Bend Radius, in [mm] 0.984 [24.99]
Repeated Minimum Bend Radius, in [mm] 2 [50.8]
Weight, lbs/ft [Kg/m] 0.046 [0.07]

Compliance Certifications

(visit www.Pasternack.com for current document)
RoHS Compliant Yes

Plotted and Other Data

Notes: Values at 25 °C, sea level

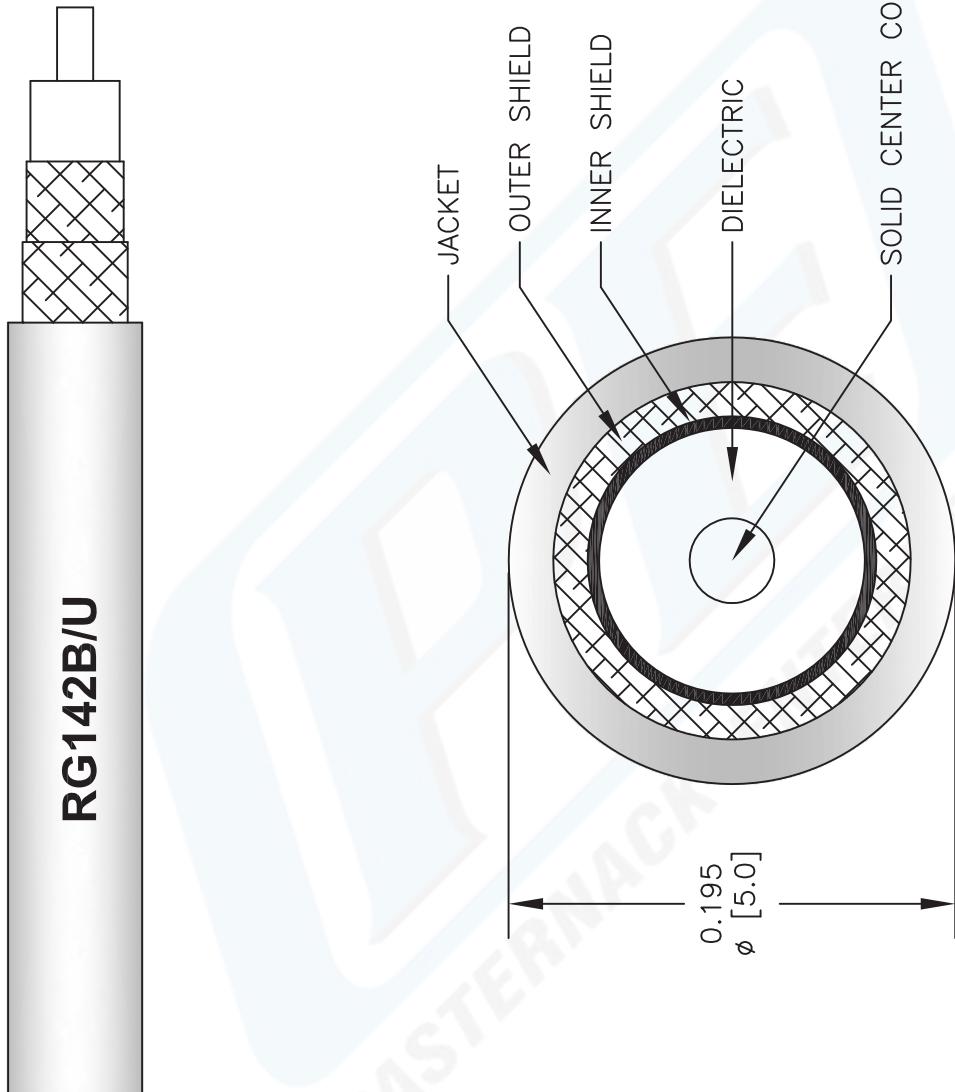
URL: <http://www.pasternack.com/flexible-0.195-rg142-50-ohm-coax-cable-fep-jacket-rg142b-u-p.aspx>

Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

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.

RG142B/U CAD Drawing

Flexible RG142 Coax Cable Double Shielded with Tan FEP Jacket



RG142B/U

DWG TITLE

RG142B/U

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

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].

| FSM NO. | CAD FILE | SCALE | SIZE | REV |
|---------|----------|-------|------|------|
| 53919 | 022808-A | N/A | A | 2233 |