



SMA Male Connector Crimp/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

RF Connectors Technical Data Sheet

PE4003

Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry

- RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch Interface Type
- Crimp/Crimp Attachment
- 5/16 inch Hex

Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.21:1

- Gold Plated Brass Contact
- 30 μ in minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4003 SMA male connector with crimp/crimp attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and 0.100 inch is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.21:1.

Our SMA male connector PE4003 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		3	GHz
VSWR			1.21:1	
Operating Voltage (AC)			335	Vrms

Mechanical Specifications

Size	
Length	0.87 in [22.1 mm]
Width/Dia.	0.315 in [8.00 mm]
Weight	0.012 lbs [5.44 g]
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4003](#)



SMA Male Connector Crimp/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

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Material Specifications

Description	Material	Plating
Contact	Brass	Gold 30 μ in minimum
Insulation	PTFE	
Body	Brass	Nickel 100 μ in minimum
Coupling Nut	Brass	Nickel 100 μ in minimum
Crimp Sleeve	Brass	Nickel

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

SMA Male Connector Crimp/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch 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.

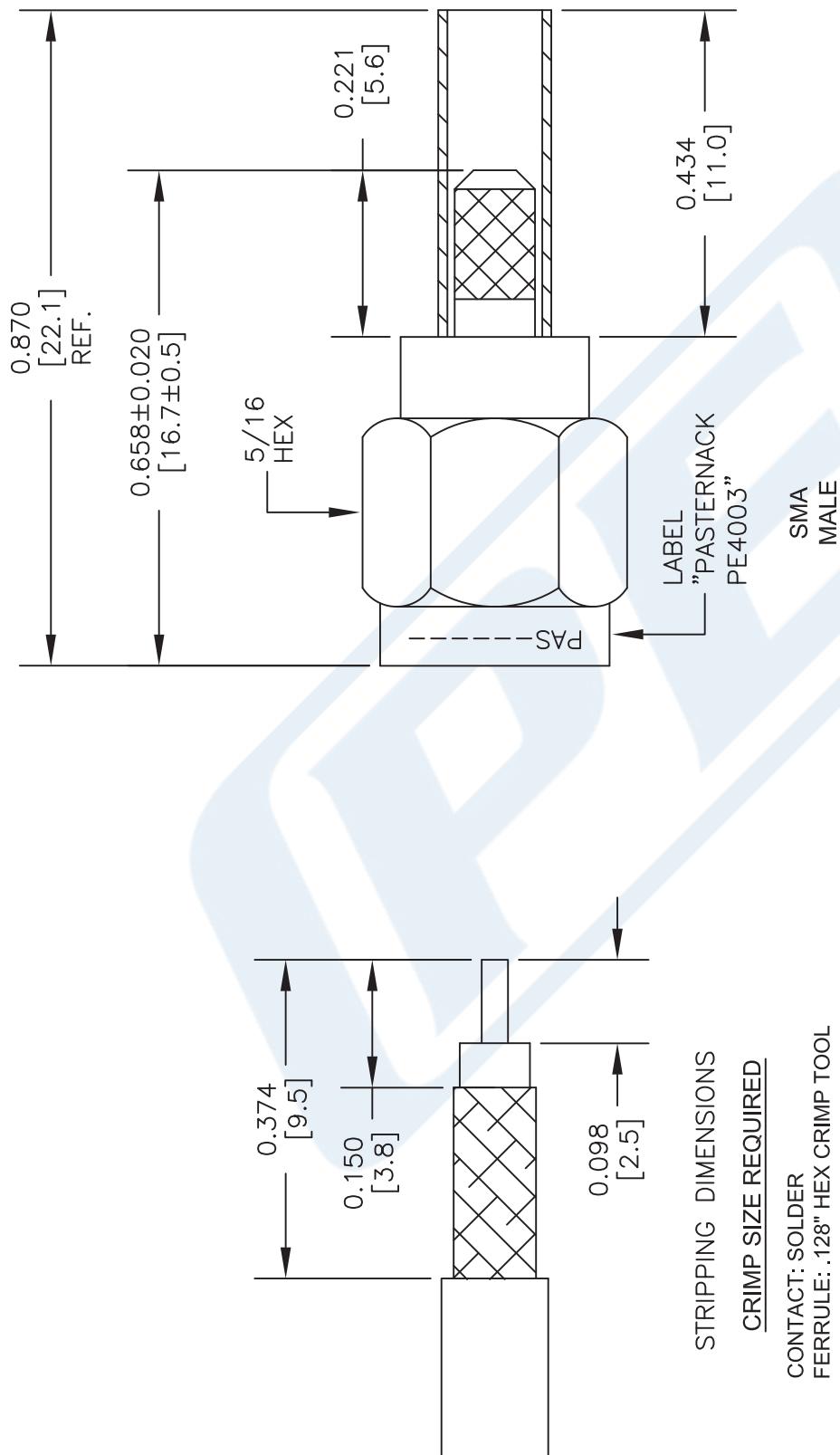
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URL: <https://www.pasternack.com/sma-male-rg174-rg316-rg188-lmr-100-pe-b100-pe-c100-0.100-connector-pe4003-p.aspx>

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.

PE4003 CAD Drawing

SMA Male Connector Crimp/Crimp Attachment for RG174, RG316,
RG188, LMR-100, PE-B100, PE-C100, 0.100 inch



STANDARD TOLERANCES
.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

PASTERNACK
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
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DWG TITLE	PE4003
FSCM NO.	53919

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].

SCALE	N/A	SIZE	A	3045
0/1316	CAD FILE	0/1316		


SMA Female Connector Clamp/Solder Attachment 4 Hole Flange For RG316, RG174, RG188, .340 inch Hole Spacing
TECHNICAL DATA SHEET
PE4034
SMA Female Connector Clamp/Solder Attachment 4 Hole Flange For RG316, RG174, RG188, .340 inch Hole Spacing
Configuration

Connector	SMA Female
Connector Specification	MIL-C-39012
Connector Interface Type	RG316, RG174, RG188
Cable Attachment Method (Shield/Contact)	Clamp/Solder
Body Style	Straight
Mount Method	4 Hole Flange

Electrical Specifications

Impedance, Ohms	50
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Mechanical Specifications

Temperature	
Operating Range, deg C	-65 to +165
Size	
Length, in [mm]	0.8 [20.32]
Width/Dia., in [mm]	0.5 [12.70]
Height, in [mm]	0.5 [12.7]
Weight, lbs [g]	0.013 [5.9]

Connector

Type	SMA Female
Contact Material and Plating	Gold
Contact Plating Specification	MIL-G-45204
Body Material and Plating	Brass, Nickel
Dielectric Type	Teflon

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant	Yes
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Clamp/Solder Attachment 4 Hole Flange For RG316, RG174, RG188, .340 inch Hole Spacing PE4034](#)

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SMA Female Connector Clamp/Solder Attachment 4 Hole Flange For RG316, RG174, RG188, .340 inch Hole Spacing

TECHNICAL DATA SHEET

PE4034

Plotted and Other Data

Notes:

Values at 25 °C, sea level

SMA Female Connector Clamp/Solder Attachment 4 Hole Flange For RG316, RG174, RG188, .340 inch Hole Spacing 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.

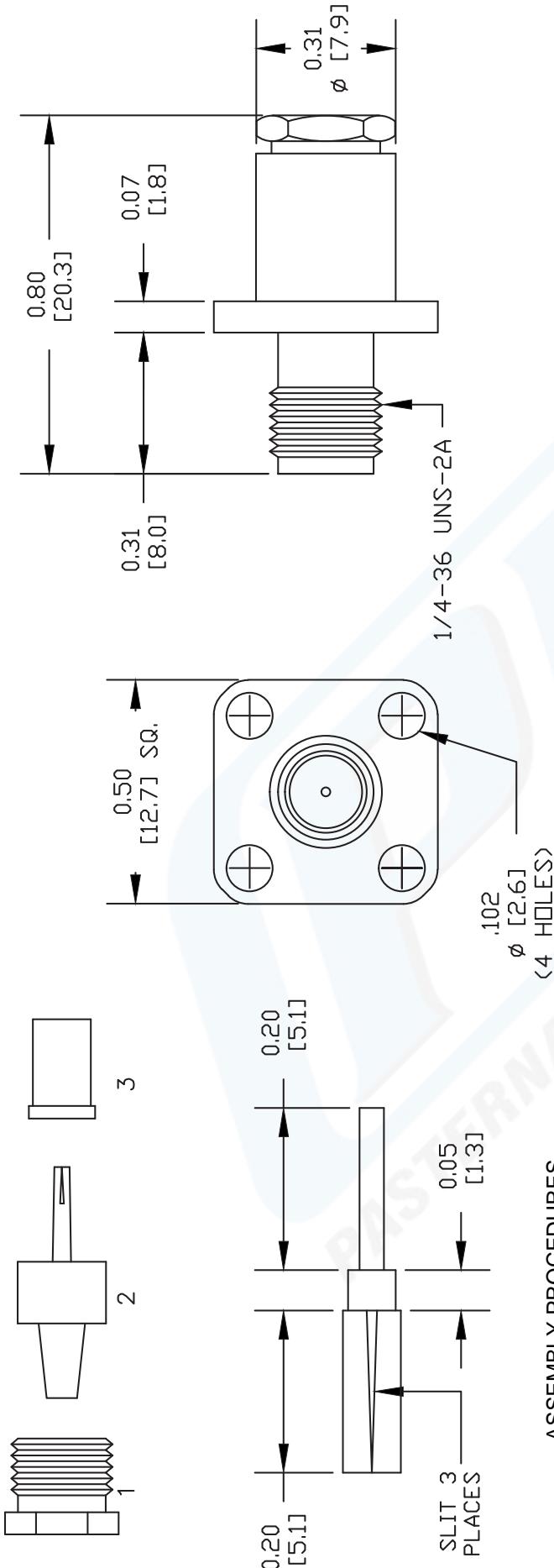
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URL: <http://www.pasternack.com/sma-female-standard-rg316-rg174-rg188-connector-pe4034-p.aspx>

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PE4034 CAD Drawing

SMA Female Connector Clamp/Solder Attachment 4 Hole Flange
For RG316, RG174, RG188, .340 inch Hole Spacing



ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR. TIN CENTER CONDUCTOR. SLIT JACKET IN 3 PLACES.
2. SLIDE CLAMP NUT (1) OVER CABLE. FLAIR BRAID AND INSERT CONE ASSEMBLY & CONTACT (2) SLIDING UNDER BRAID. DIELECTRIC MUST SEAT AGAINST INSULATOR (3) OVER CONTACT.
3. SOLDER CONTACT & CENTER CONDUCTOR THROUGH HOLE IN CONTACT. SLIDE INSULATOR (3) OVER CONTACT.
4. INSTALL CABLE ASSEMBLY INTO BODY & TIGHTEN.

Mounting Holes

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3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE	PE4034
REV. A	FSCM NO. 53919 CAD FILE 070611 SCALE N/A SIZE A 2231

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Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

RF Cables Technical Data Sheet

PE-C100-LSZH

Configuration

Low Loss Flexible Cable
2 Number of Shields

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5	GHz
Cutoff Frequency		41		GHz
Impedance		50		Ohms
Velocity of Propagation		66		%
Shielding Effectiveness	90			dB
Operating Voltage (AC)			500	Vrms
Jacket Spark			2,000	Vrms
Nominal Capacitance		30.8 [101.05]		pF/ft [pF/m]
Nominal Inductance		0.077 [0.25]		uH/ft [uH/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	30	50	150	220	450	MHz
Attenuation, Typ	3.9	5.1	8.9	10.9	15.8	dB/100ft
	12.8	16.73	29.2	35.76	51.84	dB/100m
Input Power (CW), Max	230	180	100	80	60	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	0.7	1.5	1.8	2.5	5	GHz
Attenuation, Typ	20.1	30.5	33.5	40.5	60	dB/100ft
	65.94	100.07	109.91	132.87	196.85	dB/100m
Input Power (CW), Max	40	40	40	40	10	Watts

Mechanical Specifications

Diameter	0.109 in [2.77 mm]
Weight	0.014 lbs/ft [0.02 Kg/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](#)

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

RF Cables Technical Data Sheet

PE-C100-LSZH

Min. Bend Radius (Installation)	0.25 in [6.35 mm]
Min. Bend Radius (Repeated)	1 in [25.4 mm]
Bending Moment	0.1 lbs/ft [0.15 Kg/m]
Tensile Strength	15 lbs [6.8 Kg]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, 1 Strands	0.018in [0.46 mm]
Dielectric	PE	0.059 in [1.5 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	LSZH, Black	0.109 in [2.77 mm]

Environmental Specifications

Temperature

Operating Range	-40 to 85 deg C
Storage Range	-40 to 85 deg C

-40 to 85 deg C
-40 to 85 deg C

Compliance Certifications

 (visit www.Pasternack.com for current document)

RoHS Compliant
REACH Compliant

12/17/2014

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](http://www.Pasternack.com)

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

RF Cables Technical Data Sheet

PE-C100-LSZH

Plotted and Other Data

Notes:

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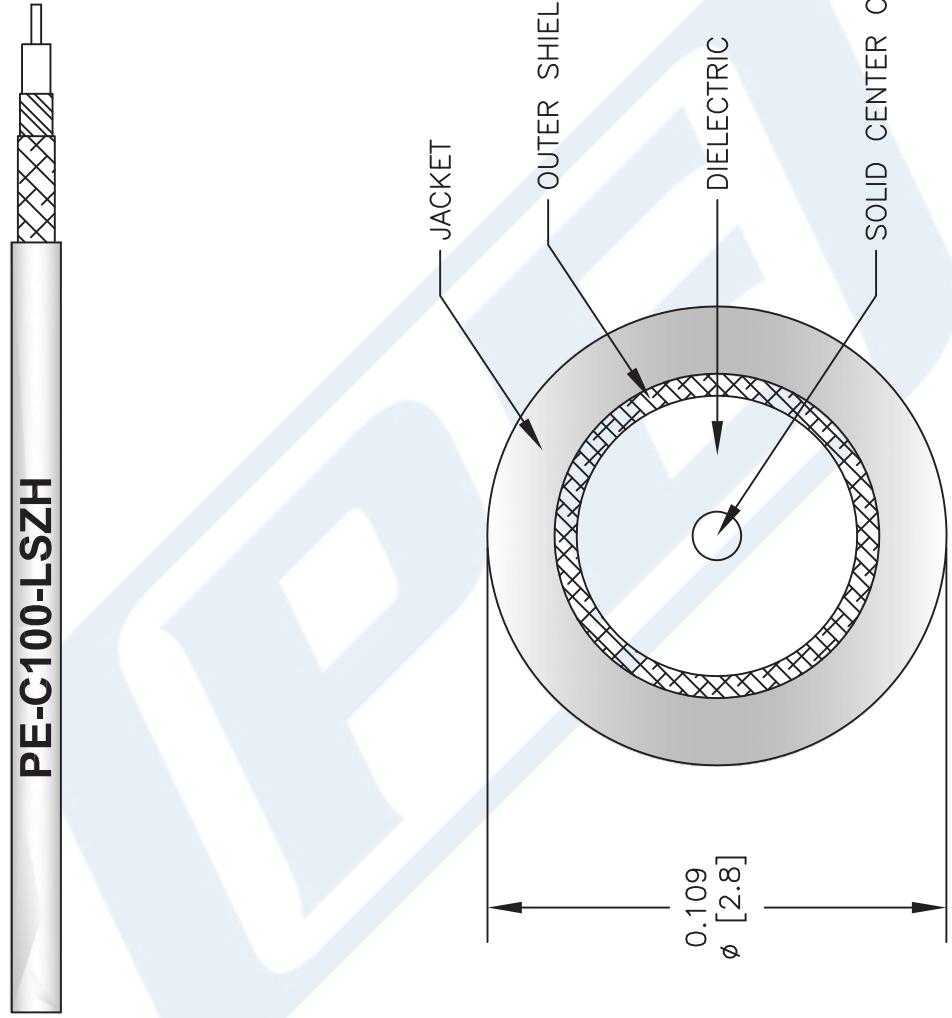
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URL: <http://www.pasternack.com/50-ohm-low-loss-lszhjacket-aluminumtape-over-tinnedcopperbraid-outerconductor-double-shieldedpe-c100-lszh-p.aspx>

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PE-C100-LSZH CAD Drawing

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket



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PE-C100-LSZH

DWG TITLE

PE-C100-LSZH

PE PASTERNACK®

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FSCM NO.	CAD FILE	SCALE	SIZE	4
53919	031313	N/A	A	2233