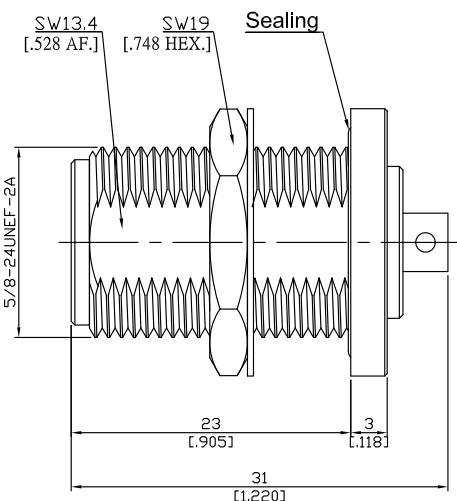
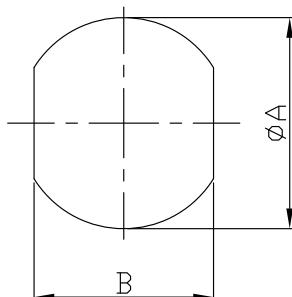


N Jack (Female) Connector Cable Entry: Solder  
 Contact Pin: Plug-in Attachment Bulkhead Mount  
 For RG402, .141" Cables, DC-11GHz VSWR1.25

## N2EA50-EZ141A / 94



## MOUNTING DIMENSIONS



	mm	inch		
	MAX.	MIN.	MAX.	MIN.
A	16.1	16	.634	.630
B	13.7	13.6	.539	.535

All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

### Interface

According to

IEC 61169-16, MIL-STD-348B/304

### Electrical Data

Impedance

50 Ω

Frequency

DC to 11 GHz

VSWR (Return Loss)

≤ 1.25 (≥ 19.08 dB)

Insertion Loss

≤ 0.05 x √F (GHz) dB

Insulation Resistance

≥ 5 x 10<sup>3</sup> MΩ

Center Contact Resistance

≤ 1 mΩ

Outer Contact Resistance

≤ 0.25 mΩ

Working voltage

500 V rms

Power handling

1000 W @ 1 GHz

700 W @ 2 GHz

RF-leakage

≥ 128 dB up to 1 GHz

- Limitations are possible due to the used cable type -

### Material And Plating

Connector parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Gasket	Silicone Rubber	

N Jack (Female) Connector Cable Entry: Solder Contact Pin: Plug-in Attachment Bulkhead Mount For RG402, .141" Cables, DC-11GHz VSWR1.25

N2EA50-EZ141A / 94

## Mechanical Data

## Environmental Data

Environmental Data	
Temperature Range	-55°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

## **Suitable Cables**

RG402, .141" Cables

## Packing

Single or 100

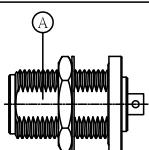


N Jack (Female) Connector Cable Entry: Solder  
Contact Pin: Plug-in Attachment Bulkhead Mount  
For RG402, .141" Cables, DC-11GHz VSWR1.25

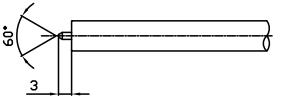
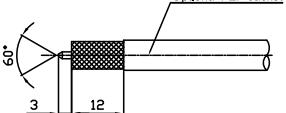
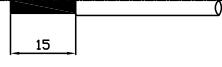
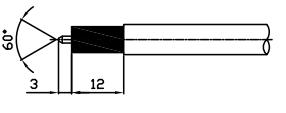
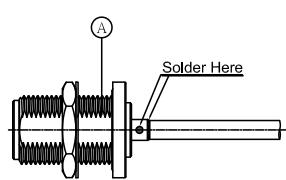
## N2EA50-EZ141A / 94

Connector Type:	N2EA50-EZ141A/94	Inner Conductor Contact:	Plug-in
Suitable Cable:	RG402, .141 Semi-Rigid and Semi-Flex Cables RG402, .141 Flexible Cables	Outer Conductor Contact:	Soldered

Parts List of Connector:



## Assembly Steps:

Picture	Process	Attention/Check	Tools Required
For Semi-Rigid and Semi-Flex Cables:   	For Semi-Rigid and Semi-Flex cable: Trim cable according to drawing. Chamfer center contact. Dimension 15 mm applies to the FEP jacket cables.	Strip the cable end perpendicular to its axis. Do not damage center contact.	Blades Trim tools
For Flexible Cables:   	For Flexible Cable: Remove the cable jacket according to the picture and put the braid into liquid tin. Remove cable dielectric according to the drawing. Chamfer center contact.	Do not damage center contact, dielectric or braid. The liquid tin has to cover a length of 15 mm. If the cable does not fit into the cable entry, utilize a flat-nose plier to adjust the outer contact.	Blades Solder pot Flat-nose plier
	Slide connector body "A" over the cable. Solder connector body "A" to the cable (see drawing).	Avoid excessive heat. Immediately use alcohol to wipe the soldered area to reduce joint temperature and remove residuals.	Solder iron