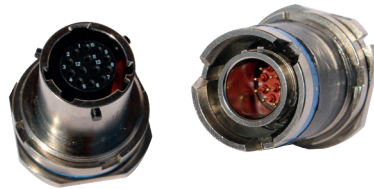


## RNJ Reduced Flange

Smaller Flange for applications where weight & size are critical



**Rack & Panel connector offering realignment & floatability for Blind Mate applications in harsh environments.**

### Main features

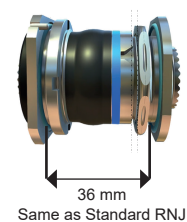
- Derived from MIL-DTL-38999 & standard RNJ, same performances than HE308
- Available for Jam nut plug and receptacle only
- Compatible with RNJ standard range (including Square Flange)
- Available in Aluminum with OD. Cadmium, Nickel or Black Zinc Nickel Plate or Stainless Steel Passivated or Nickel plated
- Higher density on panel & lower weight than Standard RNJ
- Reduced Flange deviation :
  - **F312** for Crimp or Standard PC Tail version / **F311** with safety Castle nut
  - **F059** for Stand off PC Tail version / **F058** with Safety Castle nut
- Available with all 38999 series I & III inserts, including HD ones



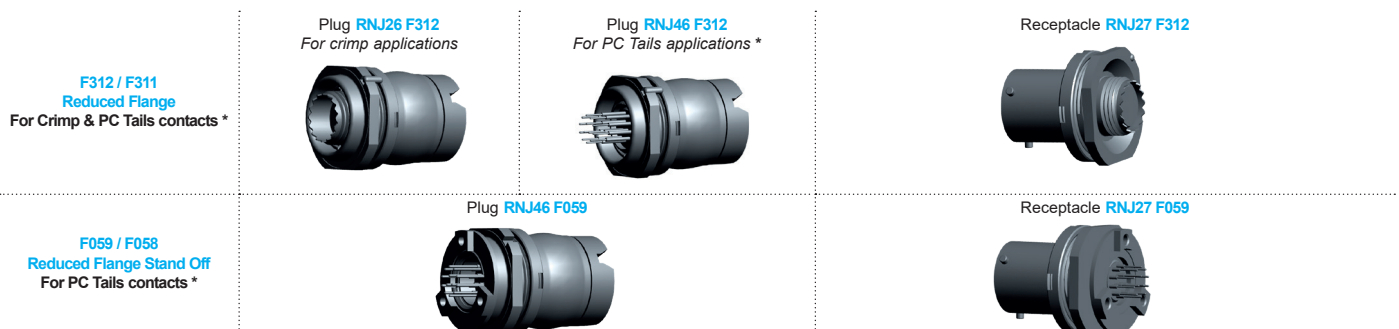
### Realignment axis



### Distance between panels



### RNJ Reduced Flange range



\* Please note that we strongly recommend not using PC Tails on plug unless soldering on flex

### Applications



C4ISR, Battlefield, Ground Vehicles



Missiles & UAVs



Military Avionics

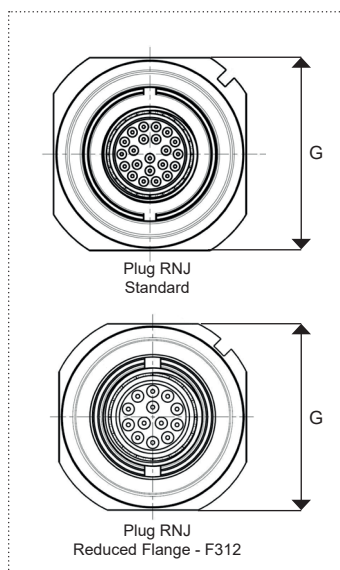


Commercial Avionics

# RNJ REDUCED FLANGE - Dimensions & tooling

## Footprint saving

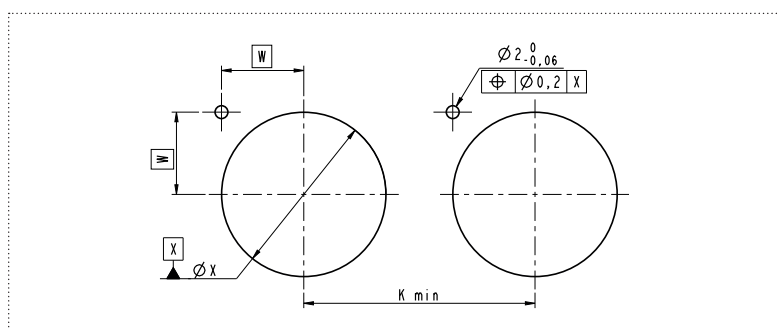
Average 30% Footprint reduction



Shell Size	Standard RNJ G max (mm)	RNJ F312/F059 G max (mm)	Footprint Reduction
11	32,16	27,03	-39,07%
13	35,34	31,03	-33,24%
15	38,51	34,53	-29,88%
17	41,69	38,53	-29,89%
19	46,43	41,53	-28,74%
21	49,64	44,53	-27,86%
23	52,78	47,53	-24,36%
25	54,03	50,53	-19,06%

Footprint dimensions are the same in Standard & Stand-Off versions

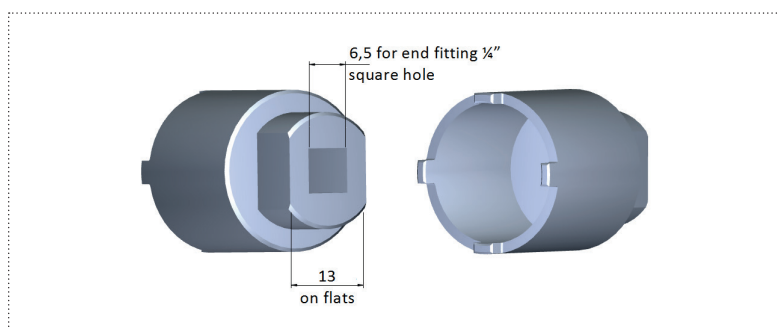
## Panel dimension - Plug & Receptacle



Shell Size	K min (mm)	W (mm)	$\phi X^{+0,1}$ (mm)
11	27,6	10,3	24
13	31,6	11,7	28
15	35,1	12,9	31
17	39,1	14,3	35
19	42,1	15,4	38
21	45,1	16,4	41
23	48,1	17,5	44
25	51,1	18,6	47

## Tooling

Specific tool for the castle nut clamping:



Shell Size	Tools Part Number
11	809642
13	809643
15	809644
17	809645
19	809646
21	809647
23	809648
25	809649

# RNJ REDUCED FLANGE - How to order

For standard configurations, please consult RNJ Catalog.

## Crimp contacts

	1.	2.	3.	4.	5.	6.	7.	8.
Series	Shell type	Shell material	Contacts layout	Contacts gender	Keying	Material & plating	w / or w/out contacts	Deviation
RNJ	27	T	11-35	P	N	014	LC	F312

### 1. Shell type

27	Jam nut Receptacle
26	Jam nut Plug

### 2. Shell material

T	Aluminum
KE	Stainless steel 303
K	Stainless steel 316L

### 3. Contact layout

Size - Layout - Size 11 to 25 - All LJT & TV contacts layouts available.

### 4. Contact gender

P	Pin
S	Socket

### 5. Keying

N	Normal
A	

### 6. Materials and platings

	Shell material	Shell finish
014	Aluminum	Olive Drab Cadmium
033K		Black Zinc Nickel ✓
023	Aluminum & Stainless steel	Nickel ✓
Blank	Stainless steel	Passivated ✓

### 7. With or without contact

Blank	Connector delivered with contacts
LC	Connector delivered without contacts

### 8. Deviations

F312	Reduced Flange
F311	Reduced Flange with safety castle nut

## PC Tail contacts

	1.	2.	3.	4.	5.	6.	7.	8.	9.
Series	Shell type	Shell material	PC Tails Contacts	Contacts layout	Contacts gender	Keying	Material & plating	Deviation	Contact finish
RNJ	27	K	CI	11-35	P	N	023	F059	LFC

### 1. Shell type

27	Jam nut Receptacle
46	Jam nut Plug*

### 2. Shell material

Blank	Aluminum
KE	Stainless steel 303
K	Stainless steel 316L

### 3. PC Tail contacts

CI	Standard length
LI	Longer PC Tail

### 4. Contact layout

Size - Layout - Size 11 to 25 - All LJT & TV contacts layouts available. Size 11 to 25

### 5. Contact gender

P	Pin
S	Socket

### 6. Keying

N	Normal
A	

### 7. Materials and platings

	Shell material	Shell finish
014	Aluminum	Olive Drab Cadmium
033K		Black Zinc Nickel ✓
023	Aluminum & Stainless steel	Nickel ✓
Blank	Stainless steel	Passivated ✓

### 8. Deviations

F312	Reduced Flange
F311	Reduced Flange with safety castle nut
F059	Reduced Flange Stand-off
F058	Reduced Flange Stand-off with safety castle nut

### 9. Deviations

Blank	Lead - tin tails
H	Gold tails ✓
LF	Lead free - Tin + Silver tails ✓
LFC	Lead free - Tin + Silver + Copper tails ✓

\* Please note that we strongly recommend not using PC Tails on plug unless soldering on flex

✓ : RoHS compliant

