

RNJ Reduced Flange

Smaller Flange for applications where weight & size are critical



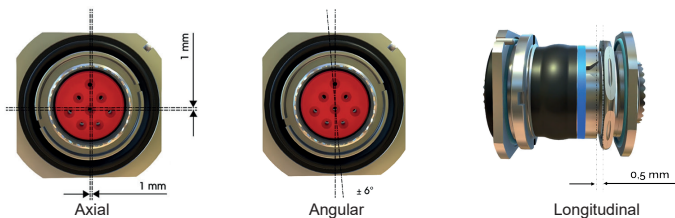
Rack & Panel connector offering realignment & floatability for Blind Mate applications in harsh environments.

Main features

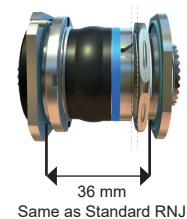
- Derived from MIL-DTL-38999 & standard RNJ, same performances than HE308
- Available for Jam nut plug and receptacle only
- Compatible with RNJ standard range (including Square Flange)
- Available in Aluminum with OD. Cadmium, Nickel or Black Zinc Nickel Plate or Stainless Steel Passivated or Nickel 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



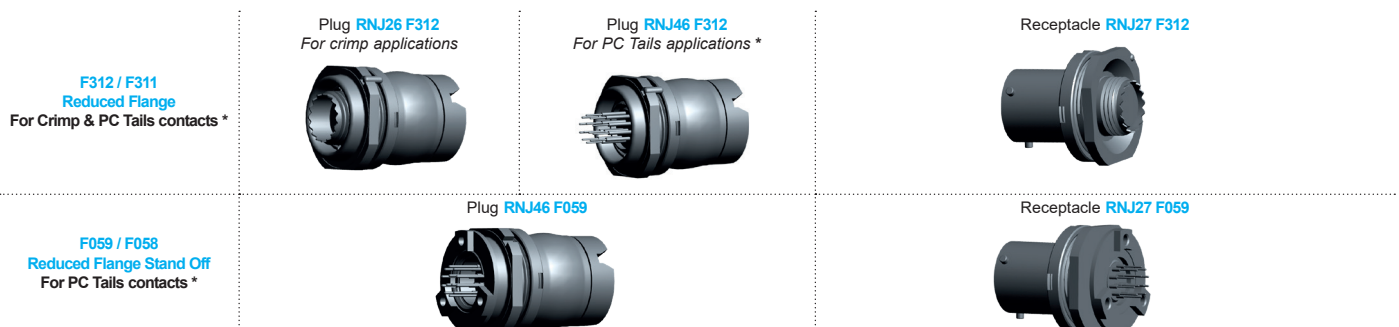
Realignment axis



Distance between panels



RNJ Reduced Flange range



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

Applications



C6ISR, Battlefield,
Ground Vehicles



Missiles & UAVs



Military Avionics

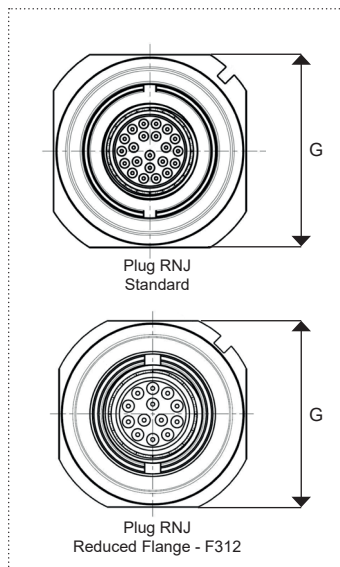


Commercial Avionics

RNJ REDUCED FLANGE - Dimensions & tooling

Footprint saving

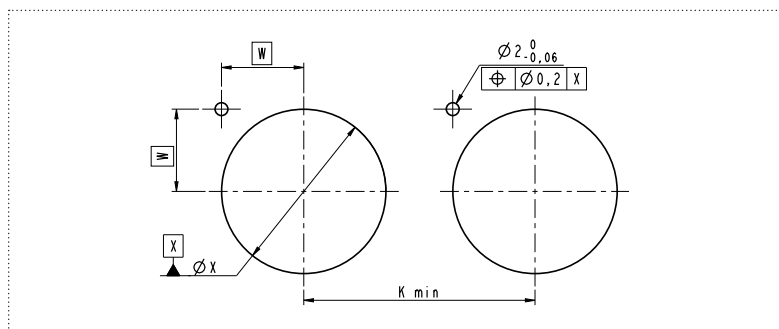
Average 30% Footprint reduction



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

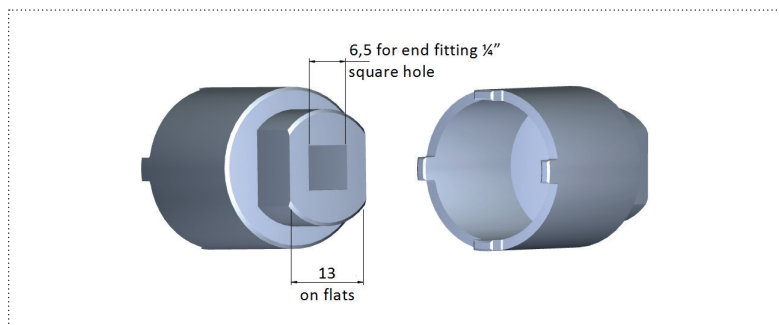
Panel dimension - Plug & Receptacle



Shell Size	K min (mm)	W (mm)	ØX ^{+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

