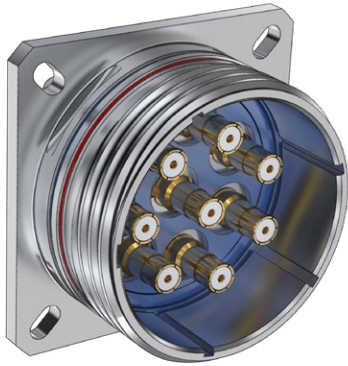


## 233-290

### Plug (Socket Contacts) and Receptacles (Pin Contacts)

SUPERNINE MULTI-PIN RF CONNECTORS



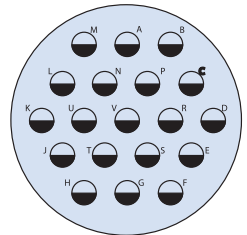
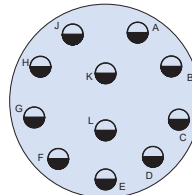
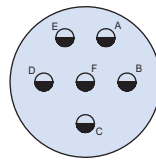
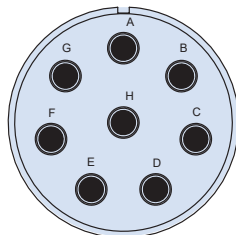
#### PART NUMBER

233-290		-00	ME	17RF6	N
Base P/N	233-290 SuperNine RF Connector				
Connector Style	<ul style="list-style-type: none"> <li><b>G6</b> Plug</li> <li><b>00</b> Wall-Mount Receptacle, Slotted Holes</li> <li><b>05</b> In-Line Receptacle</li> <li><b>07</b> Jam Nut Receptacle</li> <li><b>CS</b> Wall Mount Receptacle, Std. Clinch Nuts</li> <li><b>CM</b> Wall Mount Receptacle, Metric Clinch Nuts</li> <li><b>HS</b> Wall-Mount Receptacle, Std. Helicoil</li> <li><b>HM</b> Wall-Mount Receptacle, Metric Helicoil</li> </ul>				
Material/ Finish	<ul style="list-style-type: none"> <li><b>NF</b> Alum/ Cad/O.D. over Electroless Nickel</li> <li><b>MT</b> Alum/ Nickel-PTFE</li> <li><b>ME</b> Alum/ Electroless Nickel</li> <li><b>ZR</b> Alum/ Black Zinc-Nickel</li> <li><b>ZL</b> SST/ Nickel Plating</li> </ul>				
Size and Layout	See Table 1				
Polarization	A, B, C, D, N				

#### SuperNine Size 8 RF Contact Arrangements

#### SuperNine Size 12 RF Contact Arrangements

Mating face of pin connector. Socket numbering is reversed.



Arrangement No.

**11RF1**

Shell Sz. 11 • 1 contact

**25RF8**

Shell Sz. 25 • 8 contacts

**17RF6**

Shell Sz. 17 • 6 contacts

**21RF11**

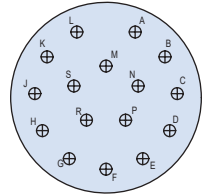
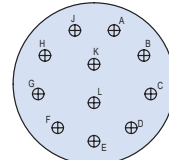
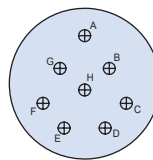
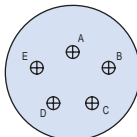
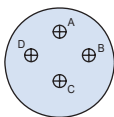
Shell Size 21 • 11 contacts

**25RF19**

Shell Size 25 • 19 contacts

#### SuperNine Size 16 RF Contact Arrangements

Mating face of pin connector. Socket numbering is reversed.



Arrangement No.

**11RF2**

Shell Sz. 11 • 2 contacts

**13RF4**

Shell Sz. 13 • 4 contacts

**15RF5**

Shell Sz. 15 • 5 contacts

**17RF8**

Shell Sz. 17 • 8 contacts

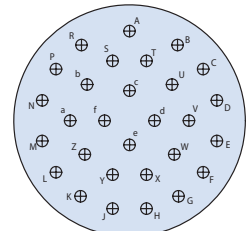
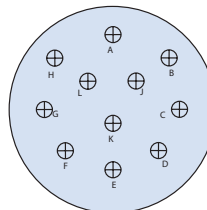
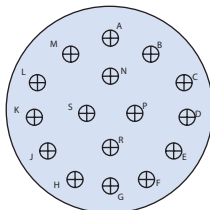
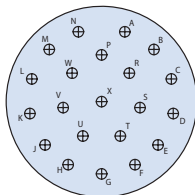
**19RF11**

Shell Sz. 19 • 11 contacts

**21RF16**

Shell Size 21 • 16 contacts

Mating face of pin connector. Socket numbering is reversed.



Arrangement No.

**23RF21**

Shell Size 23 • 21 contacts

**23RF97**

Shell Size 23 • 16 contacts

**23RF99**

Shell Size 23 • 11 contacts

**25RF29**

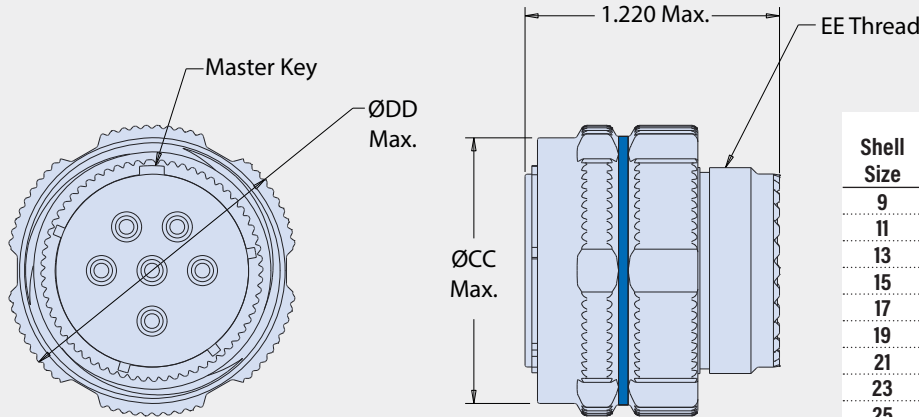
Shell Size 25 • 29 contacts

## 233-290

### Plug (Socket) / Receptacles (Pin)

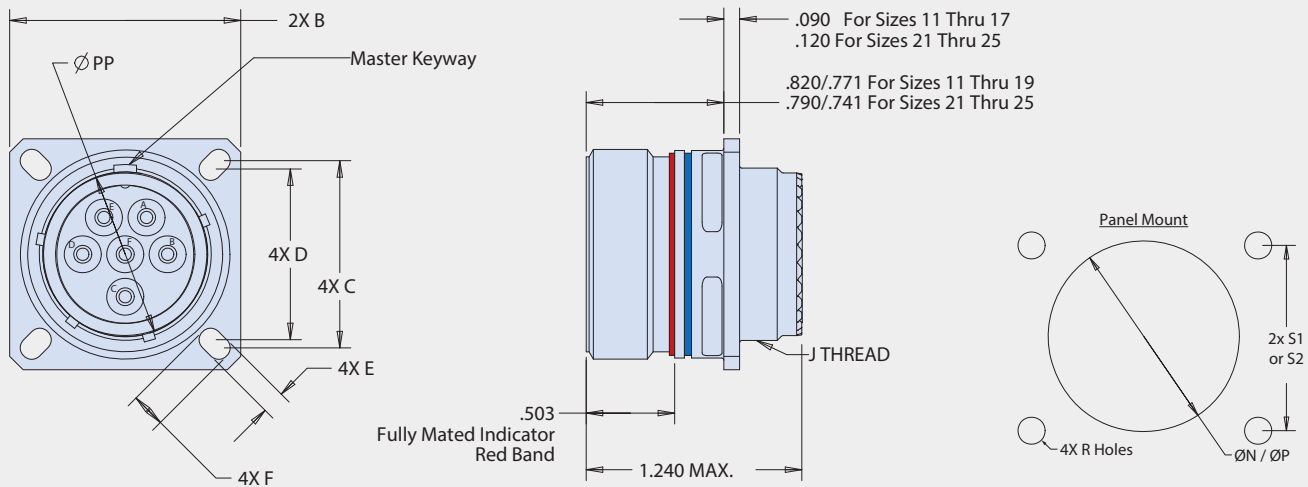
- 233-290-G6 Plug
- 233-290-00 Wall-Mount Receptacle

#### 233-290-G6 PLUG WITH EMI SPRING



Shell Size	ØCC Max		ØDD Max		EE Thread
	in	mm	in	mm	
9	.732	18.59	.858	21.79	M12 X 1.0-6g 0.100R
11	.839	21.31	.984	24.99	M15 X 1.0-6g 0.100R
13	1.008	25.60	1.157	29.39	M18 X 1.0-6g 0.100R
15	1.138	28.91	1.280	32.51	M22 X 1.0-6g 0.100R
17	1.276	32.41	1.406	35.71	M25 X 1.0-6g 0.100R
19	1.382	35.10	1.516	38.51	M28 X 1.0-6g 0.100R
21	1.508	38.30	1.642	41.71	M31 X 1.0-6g 0.100R
23	1.626	41.30	1.768	44.91	M34 X 1.0-6g 0.100R
25	1.752	44.50	1.89	48.01	M37 X 1.0-6g 0.100R

#### 233-290-00 WALL-MOUNT RECEPTACLE WITH SLOTTED HOLES



Shell Size	A Thread -1P-.3L-TS-2A	B Sq	C Bsc	D Bsc	PP	E	F	J Thread X 1.0-6g 0.100R	ØN Min. (back panel mount)	ØP Min. (front panel mount)	S1 Bsc. (back panel mount)	S2 Bsc. (front panel mount)	ØR Holes
9	.6250	.949 (24.10)	.719 (18.26)	.594 (15.09)	.447 (11.35)		.224 (5.69)	M12	.656 (16.66)	.516 (13.12)	.719 (18.26)	.594 (15.09)	
		.925 (23.50)			.441 (11.20)		.208 (5.28)						
11	.7500	1.043 (26.49)	.812 (20.62)	.719 (18.26)	.575 (14.60)		.202 (5.13)	M15	.796 (20.22)	.625 (15.88)	.812 (20.62)	.719 (18.26)	
		1.019 (25.88)			.569 (14.45)		.186 (4.72)						
13	.8750	1.138 (28.91)	.906 (23.01)	.812 (20.62)	.687 (17.45)		.186 (4.72)	M18	.922 (23.42)	.750 (19.05)	.906 (23.01)	.812 (20.62)	
		1.092 (27.74)			.681 (17.30)								
15	1.0000	1.232 (31.29)	.969 (24.61)	.906 (23.01)	.812 (20.62)	.136 (3.45)	.181 (4.60)	M22	1.047 (26.59)	.906 (23.01)	.969 (24.61)	.906 (23.01)	133 (3.38)
		1.208 (30.68)			.804 (20.42)		.165 (4.19)						
17	1.1875	1.323 (33.60)	1.062 (26.97)	.969 (24.61)	.937 (23.80)			M25	1.219 (30.96)	1.016 (25.81)	1.062 (26.97)	.969 (24.61)	123 (3.12)
		1.299 (32.99)			.930 (23.62)								
19	1.2500	1.449 (36.80)	1.156 (29.36)	1.062 (26.97)	1.042 (26.47)		.202 (5.13)	M28	1.297 (32.94)	1.141 (28.98)	1.156 (29.36)	1.062 (26.97)	
		1.425 (36.20)			1.036 (26.31)								
21	1.3750	1.575 (40.00)	1.250 (31.75)	1.156 (29.36)	1.167 (29.64)			M31	1.422 (36.12)	1.266 (32.16)	1.250 (31.75)	1.156 (29.36)	
		1.551 (39.40)			1.161 (29.49)								
23	1.5000	1.701 (43.21)	1.375 (34.92)	1.250 (31.75)	1.292 (32.82)	.162 (4.11)	.250 (6.35)	M34	1.547 (39.29)	1.375 (34.93)	1.375 (34.92)	1.250 (31.75)	159 (4.04)
		1.677 (42.60)			1.286 (32.66)		.234 (5.94)						
25	1.6250	1.823 (46.30)	1.500 (38.10)	1.375 (34.92)	1.417 (35.99)	.146 (3.71)		M37	1.672 (42.47)	1.484 (37.69)	1.500 (38.10)	1.375 (34.92)	149 (3.78)
		1.799 (45.69)			1.411 (35.84)								

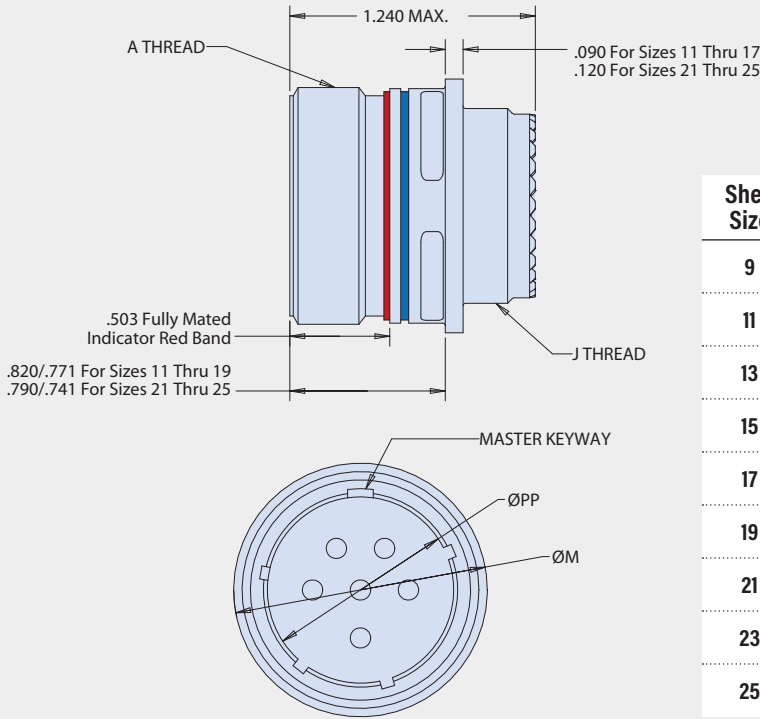
**233-290**  
 Receptacle Connectors (Pin Contacts)

- 233-290-05 In-Line Receptacle
- 233-290-07 Jam-Nut Receptacle

SUPERNINE MULTI-PIN RF CONNECTORS

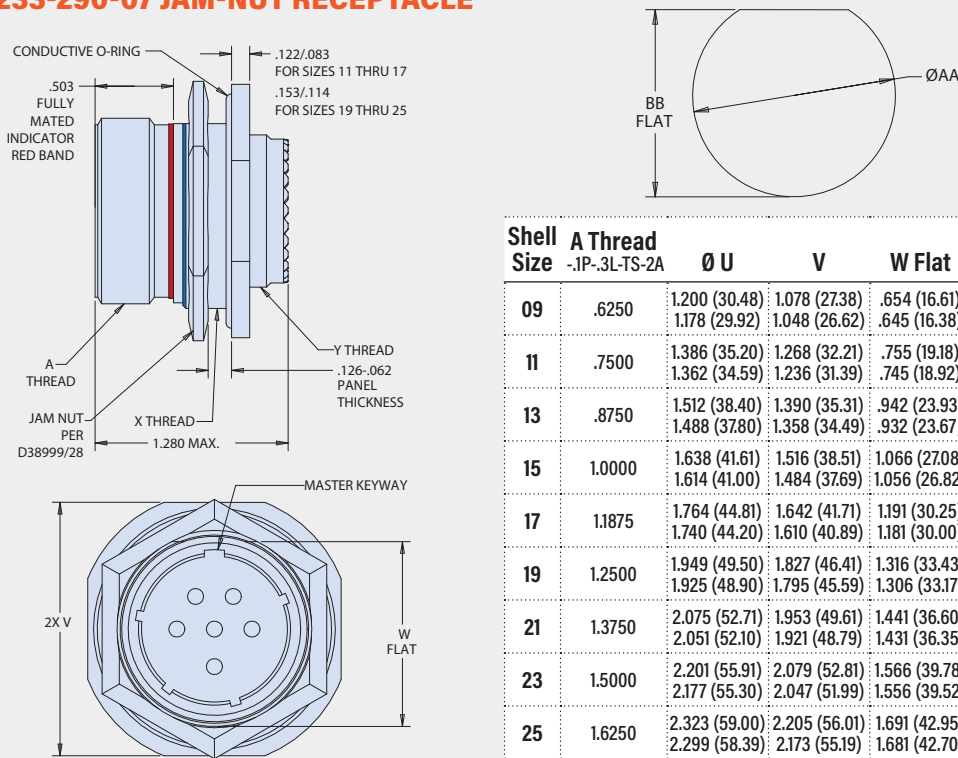
SUPERNINE MULTI-PIN RF CONNECTORS

**233-290-05 IN-LINE RECEPTACLE**



Shell Size	A Thread -1P-.3L-TS-2A	PP	J Thread X 1.0-6g 0.100R	L Thread	ØM Max
9	.6250	.447 (11.35) .441 (11.20)	M12		.858 (21.79)
11	.7500	.575 (14.60) .569 (14.45)	M15		.984 (24.99)
13	.8750	.687 (17.45) .681 (17.30)	M18		1.157 (29.39)
15	1.0000	.812 (20.62) .804 (20.42)	M22	.112-40 UNC	1.280 (32.51)
17	1.1875	.937 (23.80) .930 (23.62)	M25		1.406 (35.71)
19	1.2500	1.042 (26.47) 1.036 (26.31)	M28		1.516 (38.51)
21	1.3750	1.167 (29.64) 1.161 (29.49)	M31		1.642 (41.71)
23	1.5000	1.292 (32.82) 1.286 (32.66)	M34	.138-32 UNC	1.768 (44.91)
25	1.6250	1.417 (35.99) 1.411 (35.84)	M37		1.890 (48.01)

**233-290-07 JAM-NUT RECEPTACLE**



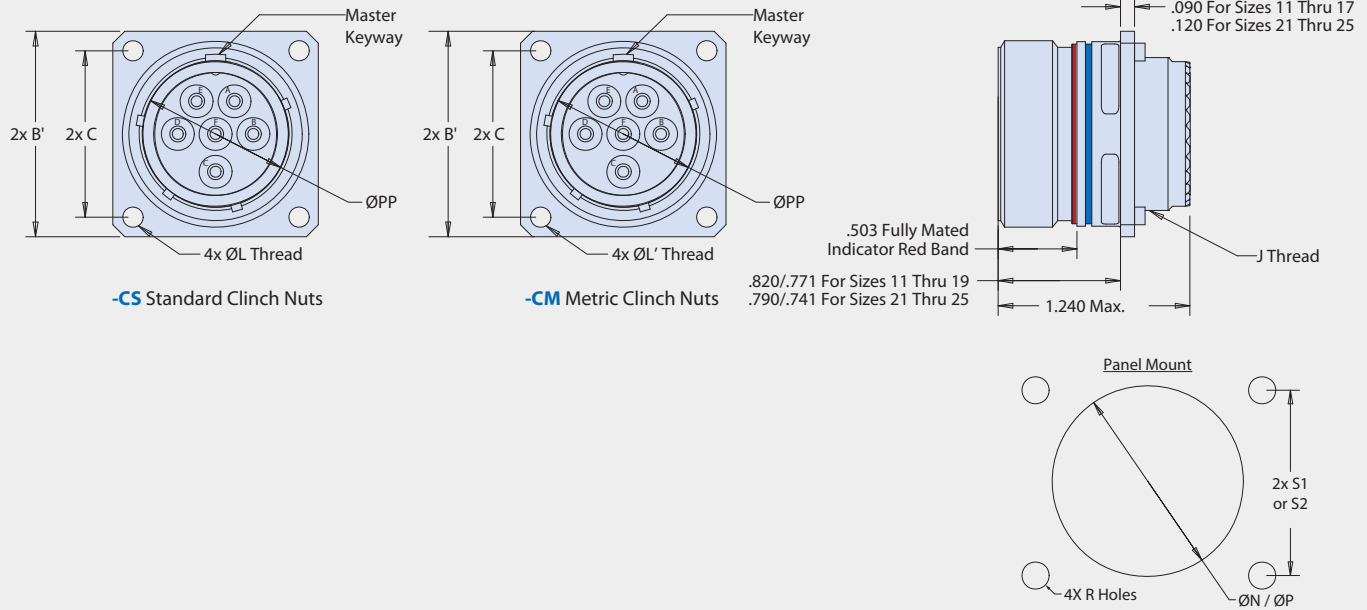
Shell Size	A Thread -1P-.3L-TS-2A	Ø U	V	W Flat	X Thread X 1.0-6g 0.100R	Y Thread X 1.0-6g 0.100R	ØAA	BB Flat
09	.6250	1.200 (30.48)	1.078 (27.38)	.654 (16.61)	M17	M12	.703	.661 (16.79)
		1.178 (29.92)	1.048 (26.62)	.645 (16.38)				.693
11	.7500	1.386 (35.20)	1.268 (32.21)	.755 (19.18)	M20	M15	.835	.771 (19.58)
		1.362 (34.59)	1.236 (31.39)	.745 (18.92)				.825
13	.8750	1.512 (38.40)	1.390 (35.31)	.942 (23.93)	M25	M18	1.020	.955 (24.26)
		1.488 (37.80)	1.358 (34.49)	.932 (23.67)				1.010
15	1.0000	1.638 (41.61)	1.516 (38.51)	1.066 (27.08)	M28	M22	1.145	1.085 (27.56)
		1.614 (41.00)	1.484 (37.69)	1.056 (26.82)				1.135
17	1.1875	1.764 (44.81)	1.642 (41.71)	1.191 (30.25)	M32	M25	1.270	1.210 (30.73)
		1.740 (44.20)	1.610 (40.89)	1.181 (30.00)				1.260
19	1.2500	1.949 (49.50)	1.827 (46.41)	1.316 (33.43)	M35	M28	1.395	1.335 (33.91)
		1.925 (48.90)	1.795 (45.59)	1.306 (33.17)				1.385
21	1.3750	2.075 (52.71)	1.953 (49.61)	1.441 (36.60)	M38	M31	1.520	1.460 (37.08)
		2.051 (52.10)	1.921 (48.79)	1.431 (36.35)				1.510
23	1.5000	2.201 (55.91)	2.079 (52.81)	1.566 (39.78)	M41	M34	1.645	1.585 (40.26)
		2.177 (55.30)	2.047 (51.99)	1.556 (39.52)				1.635
25	1.6250	2.323 (59.00)	2.205 (56.01)	1.691 (42.95)	M44	M37	1.770	1.710 (43.43)
		2.299 (58.39)	2.173 (55.19)	1.681 (42.70)				1.760

## 233-290

### Receptacle Connectors (Pin Contacts)

- 233-290-CS Wall-Mount, Std. Clinch Nuts
- 233-290-CM Wall-Mount, Metric Clinch Nuts

#### 233-290 WALL-MOUNT RECEPTACLE WITH -CS STANDARD OR -CM METRIC CLINCH NUTS



Shell Size	A Thread -1P-.3L- TS-2A	B'	C Bsc	PP	J Thread	L Thread	L' Thread	ØN Min. (back panel mount)	ØP Min. (front panel mount)	S1 Bsc. (back panel mount)	S2 Bsc. (front panel mount)	ØR Holes
9	.6250	1.039 (26.39) .999 (25.37)	.719 (18.26)	.447 (11.35) .441 (11.20)	M12 X 1.0-6g 0.100R	.112-40 UNC	M3X 0.5	.656 (16.66)	.516 (13.12)	.719 (18.26)	.594 (15.09)	.133 (3.38) .123 (3.12)
11	.7500	1.132 (28.75) 1.092 (27.74)	.812 (20.62)	.575 (14.60) .569 (14.45)	M15 X 1.0-6g 0.100R			.796 (20.22)	.625 (15.88)	.812 (20.62)	.719 (18.26)	
13	.8750	1.226 (31.14) 1.186 (30.12)	.906 (23.01)	.687 (17.45) .681 (17.30)	M18 X 1.0-6g 0.100R			.922 (23.42)	.750 (19.05)	.906 (23.01)	.812 (20.62)	
15	1.0000	1.289 (32.74) 1.249 (31.72)	.969 (24.61)	.812 (20.62) .804 (20.42)	M22 X 1.0-6g 0.100R			1.047 (26.59)	.906 (23.01)	.969 (24.61)	.906 (23.01)	
17	1.1875	1.382 (35.10) 1.342 (34.09)	1.062 (26.97)	.937 (23.80) .930 (23.62)	M25 X 1.0-6g 0.100R			1.219 (30.96)	1.016 (25.81)	1.062 (26.97)	.969 (24.61)	
19	1.2500	1.476 (37.49) 1.436 (36.47)	1.156 (29.36)	1.042 (26.47) 1.036 (26.31)	M28 X 1.0-6g 0.100R			1.297 (32.94)	1.141 (28.98)	1.156 (29.36)	1.062 (26.97)	
21	1.3750	1.582 (40.18) 1.542 (39.17)	1.250 (31.75)	1.167 (29.64) 1.161 (29.49)	M31 X 1.0-6g 0.100R			1.422 (36.12)	1.266 (32.16)	1.250 (31.75)	1.156 (29.36)	
23	1.5000	1.739 (44.17) 1.699 (43.15)	1.375 (34.92)	1.292 (32.82) 1.286 (32.66)	M34 X 1.0-6g 0.100R	.138-32 UNC	M4X 0.7	1.547 (39.29)	1.375 (34.93)	1.375 (34.92)	1.250 (31.75)	.159 (4.04) .149 (3.78)
25	1.6250	1.884 (47.85) 1.824 (46.33)	1.500 (38.10)	1.417 (35.99) 1.411 (35.84)	M37 X 1.0-6g 0.100R			1.672 (42.47)	1.484 (37.69)	1.500 (38.10)	1.375 (34.92)	

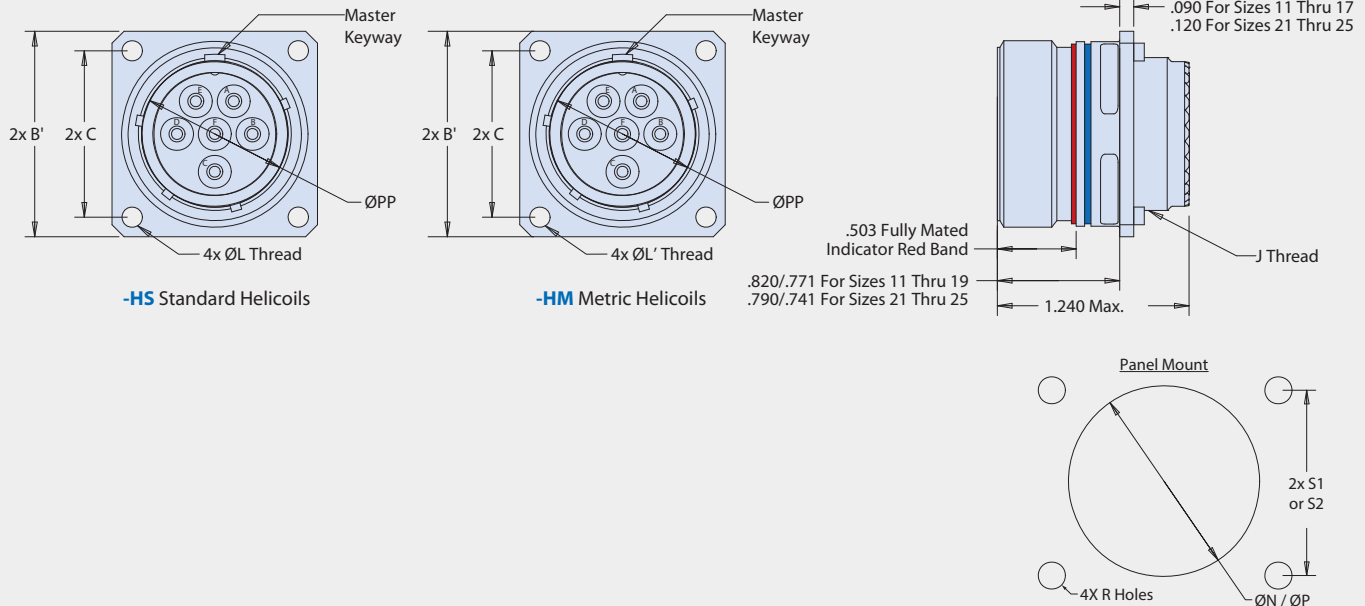
SUPERNINE MULTI-PIN RF CONNECTORS

SUPERNINE MULTI-PIN RF CONNECTORS

**233-290**  
 Receptacle Connectors (Pin Contacts)

- 233-290-HS Wall-Mount, Std. Helicoils
- 233-290-HM Wall-Mount, Metric Helicoils

**233-290 WALL-MOUNT RECEPTACLE WITH -HS STANDARD HELICOILS OR -HM METRIC HELICOILS**



Shell Size	A Thread -1P-.3L- TS-2A	B'	C Bsc	PP	J Thread	L Thread	L' Thread	ØN Min. (back panel mount)	ØP Min. (front panel mount)	S1 Bsc. (back panel mount)	S2 Bsc. (front panel mount)	ØR Holes
9	.6250	1.039 (26.39) .999 (25.37)	.719 (18.26)	.447 (11.35) .441 (11.20)	M12 X 1.0-6g 0.100R			.656 (16.66)	.516 (13.12)	.719 (18.26)	.594 (15.09)	
11	.7500	1.132 (28.75) 1.092 (27.74)	.812 (20.62)	.575 (14.60) .569 (14.45)	M15 X 1.0-6g 0.100R			.796 (20.22)	.625 (15.88)	.812 (20.62)	.719 (18.26)	
13	.8750	1.226 (31.14) 1.186 (30.12)	.906 (23.01)	.687 (17.45) .681 (17.30)	M18 X 1.0-6g 0.100R			.922 (23.42)	.750 (19.05)	.906 (23.01)	.812 (20.62)	
15	1.0000	1.289 (32.74) 1.249 (31.72)	.969 (24.61)	.812 (20.62) .804 (20.42)	M22 X 1.0-6g 0.100R	.112-40 UNC	M3X 0.5	1.047 (26.59)	.906 (23.01)	.969 (24.61)	.906 (23.01)	.133 (3.38) .123 (3.12)
17	1.1875	1.382 (35.10) 1.342 (34.09)	1.062 (26.97)	.937 (23.80) .930 (23.62)	M25 X 1.0-6g 0.100R			1.219 (30.96)	1.016 (25.81)	1.062 (26.97)	.969 (24.61)	
19	1.2500	1.476 (37.49) 1.436 (36.47)	1.156 (29.36)	1.042 (26.47) 1.036 (26.31)	M28 X 1.0-6g 0.100R			1.297 (32.94)	1.141 (28.98)	1.156 (29.36)	1.062 (26.97)	
21	1.3750	1.582 (40.18) 1.542 (39.17)	1.250 (31.75)	1.167 (29.64) 1.161 (29.49)	M31 X 1.0-6g 0.100R			1.422 (36.12)	1.266 (32.16)	1.250 (31.75)	1.156 (29.36)	
23	1.5000	1.739 (44.17) 1.699 (43.15)	1.375 (34.92)	1.292 (32.82) 1.286 (32.66)	M34 X 1.0-6g 0.100R	.138-32 UNC	M4X 0.7	1.547 (39.29)	1.375 (34.93)	1.375 (34.92)	1.250 (31.75)	.159 (4.04) .149 (3.78)
25	1.6250	1.884 (47.85) 1.824 (46.33)	1.500 (38.10)	1.417 (35.99) 1.411 (35.84)	M37 X 1.0-6g 0.100R			1.672 (42.47)	1.484 (37.69)	1.500 (38.10)	1.375 (34.92)	

SUPERNINE MULTI-PIN RF CONNECTORS