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SJD-38999 Series Ⅳ

(MIL-DTL-38999 Series Ⅳ)







SUNGJIN CONNECTOR & CONNECTION TECHNOLOGIES
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ACE ELECTRONICS CO., LTD.
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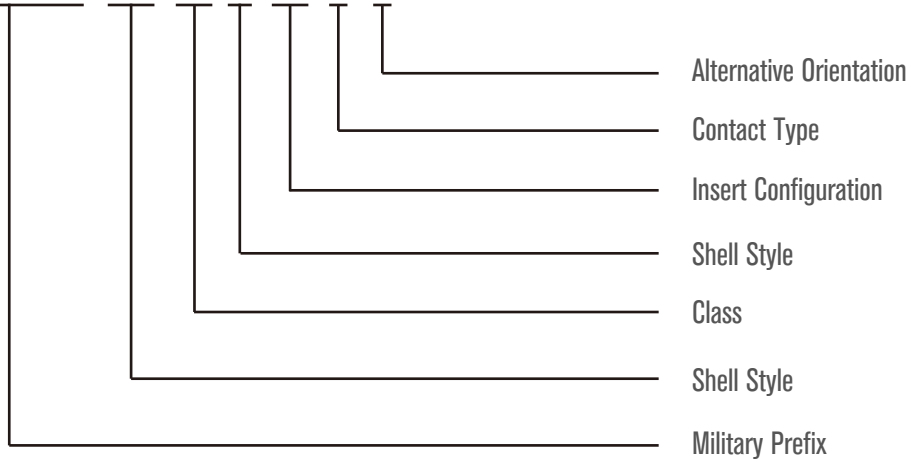
U.S.A Office
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JAPAN Office
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Tel : 81-03-6458-6731, Fax : 81-03-6458-6732

SUNGJIN
SJD-38999 series IV (MIL-DTL-38999 IV)

PART NUMBER CONSTRUCTION

SJD38999 /40 W F 35 P N



CODE	CLASS
/40	Wall Mount Receptacle
/42	Box Mount Receptacle
/44	Jam Nut Receptacle
/46	EMI Straight Plug
/49	In-Line Receptacle

CODE	SHELL SIZE
B	11
C	13
D	15
E	17
F	19
G	21
H	23
J	25

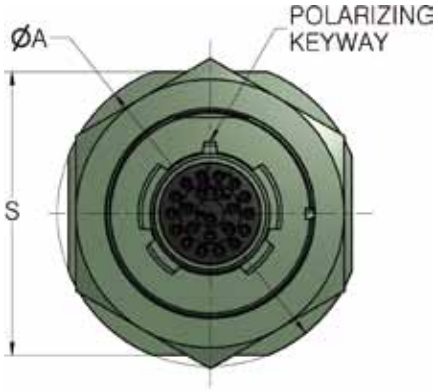
CODE	CLASS
C	Environmental, non-conductive andodize, 500 hour salt spray, 200℃
F	Environmental, electroless nickel, 200℃
K	Environmental, firewall, passivated CRES, 200℃
S	Environmental, firewall, CRES, electrodeposited nickel, 200℃
W	Environmental, olive drab cadmium, 500 hours salt spray 175℃

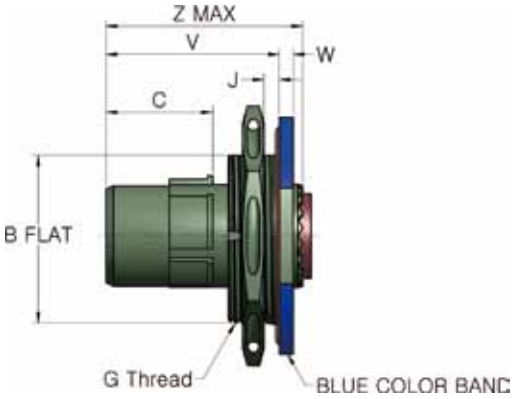
INSERT CONFIGURATION
See Page 7, 8 For Contact Sizes and Arrangement Codes

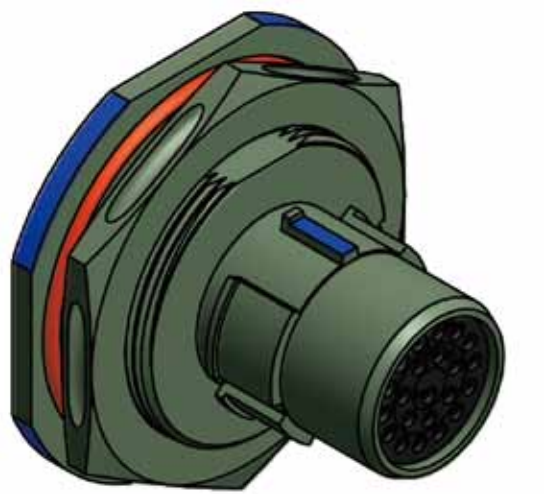
CODE	ALTERNATIVE ORIENTATION
N	Normal position
A,B,C or D	See Pages 5 & 6 for details

CODE	CONTACT TYPE
A	Connector, less pin contacts
B	Connector, less socket contacts
P	Pin Contacts, including hermetic with solder pots
S	Socket Contacts, including hermetic with colder pots
X	Pin with eyelet (hermetic only)
Z	Socket with eyelet (hermetic only)

SUNGJIN
MIL-DTL-38999 SE4 style connector

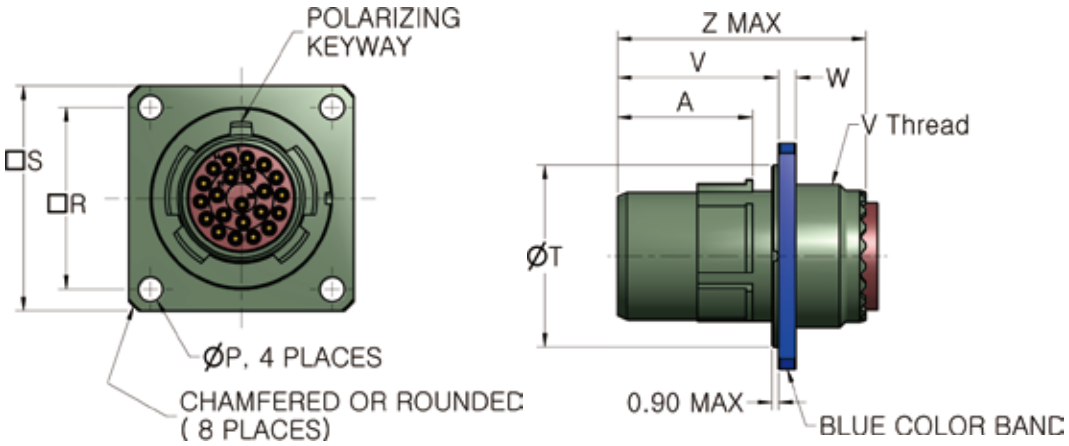


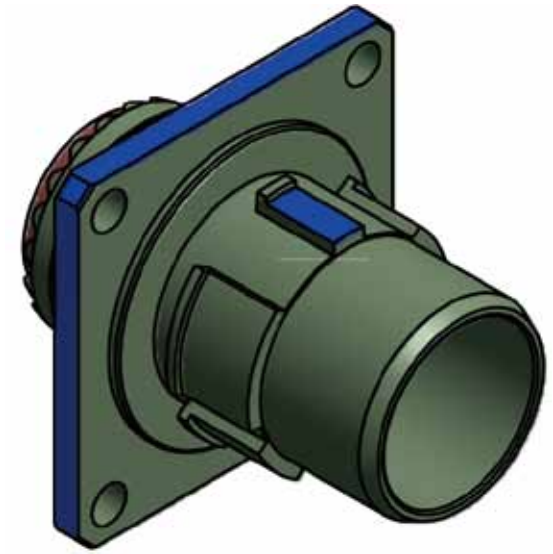




Shell size	Shell size code	A dia	B flat	G thread plated	S	V	W	Z max (see note 2)	C	J (Panel Thk)
11	B	38.6 (1.520) 37.6 (1.480)	23.93 (.942) 23.74 (.935)	M25x1-6g 0.1R	35.4 (1.394) 34.4 (1.354)	28.4 (1.118) 27.5 (1.083)	2.7 (0.106) 1.9 (0.75)	32.0 (1.260)	17.15 (.675) 16.99 (.699)	3.2 1.8
13	C	41.7 (1.642) 40.7 (1.602)	27.08 (1.066) 26.89 (1.059)	M28x1-6g 0.1R	38.6 (1.520) 37.6 (1.480)					
15	D	44.9 (1.768) 43.9 (1.728)	30.26 (1.191) 30.07 (1.184)	M31x1-6g 0.1R	41.7 (1.642) 40.7 (1.602)					
17	E	49.7 (1.957) 48.7 (48.7)	33.56 (1.321) 33.37 (1.314)	M34x1-6g 0.1R	45.7 (1.799) 44.7 (1.760)					
19	F	51.7 (2.035) 50.7 (1.996)	36.61 (1.441) 36.42 (1.434)	M38x1-6g 0.1R	48.5 (1.909) 47.5 (1.870)				16.90 (.665) 16.73 (.659)	
21	G	54.8 (2.157) 53.8 (2.118)	39.78 (1.566) 39.59 (1.559)	M41x1-6g 0.1R	51.7 (2.035) 50.7 (1.996)					
23	H	58.0 (2.283) 57.0 (2.244)	42.96 (1.691) 42.77 (1.684)	M44x1-6g 0.1R	54.8 (2.157) 53.8 (2.118)					
25	J	61.2 (2.409) 60.2 (2.370)	46.13 (1.816) 45.94 (1.809)	M47x1-6g 0.1R	58.0 (2.283) 57.0 (2.244)					

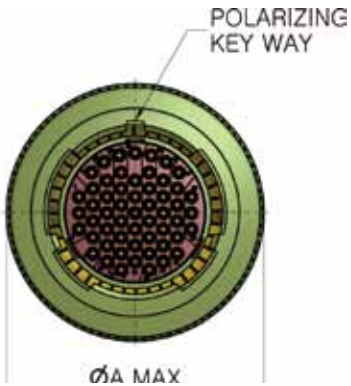
SUNGJIN
MIL-DTL-38999 SE4 style connector

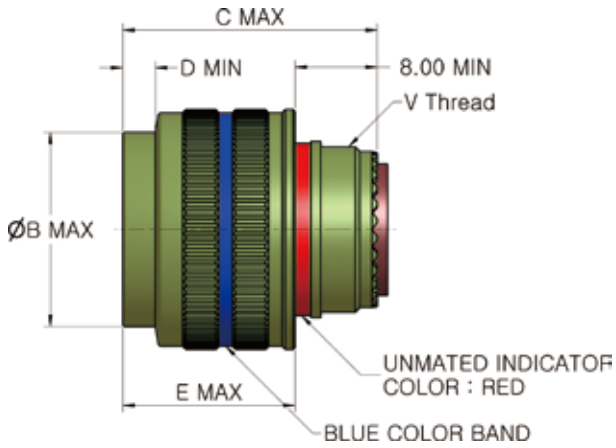




Shell size	Shell size code	P dia	R BSC	S	T dia	V	W	Z max	A	Vthread
11	B	3.5 (.138) 3.1 (.122)	20.62 (.812)	26.7 (1.051) 25.6 (1.008)	20.15 (.793) 19.76 (.778)	20.8 (.819) 19.2 (.756)	2.6 (.102) 2.1 (.083)	32.0 (1.260)	17.15 (.675) 16.99 (.699)	M15x1.0-6g 0.100R
13	C		23.02 (.906)	29.1 (1.146) 28.0 (1.102)	23.35 (.919) 22.96 (.904)					M18x1.0-6g 0.100R
15	D		24.62 (.970)	31.5 (1.240) 30.4 (1.197)	26.52 (1.044) 26.13 (1.029)					M22x1.0-6g 0.100R
17	E		26.98 (1.062)	33.9 (1.335) 32.8 (1.291)	29.72 (1.170) 29.33 (1.155)					M25x1.0-6g 0.100R
19	F		29.36 (1.156)	37.1 (1.461) 36.0 (1.417)	32.87 (1.294) 32.48 (1.279)				16.90 (.665) 16.73 (.659)	M28x1.0-6g 0.100R
21	G		31.76 (1.25)	40.2 (1.583) 39.1 (1.539)	36.05 (1.419) 35.66 (1.404)		3.4 (.134) 2.9 (.114)			M31x1.0-6g 0.100R
23	H	4.0 (.157) 3.6 (.142)	34.92 (1.374)	43.4 (1.709) 42.3 (1.665)	39.22 (1.544) 38.83 (1.529)					M34x1.0-6g 0.100R
25	J		38.1 (1.5)	46.6 (1.835) 45.5 (1.791)	42.40 (1.669) 42.01 (1.654)					M37x1.0-6g 0.100R

SUNGJIN
MIL-DTL-38999 SE4 style connector

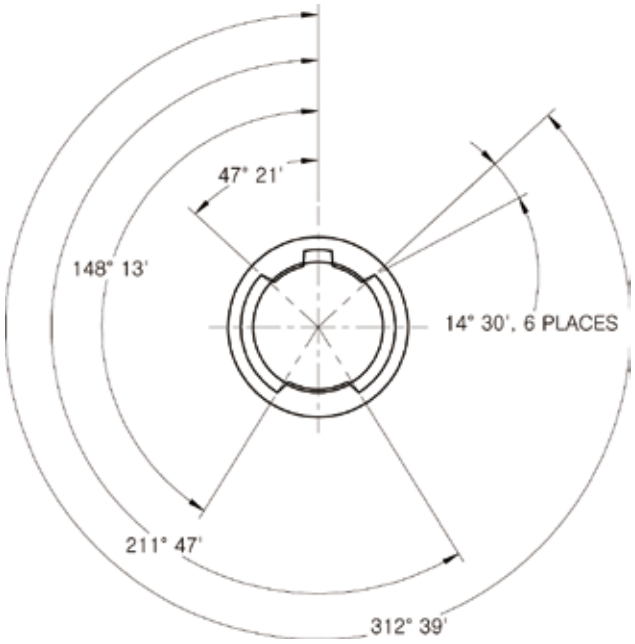






Shell size	Shell size code	D min	B dia max	A dia max	E max	C max		Vthread
						Mated	Unmated	
11	B	4.8(.189)	19.7 (.776)	26.6 (1.047)	27.0 (1.063)	36.5 (1.437)	38.9 (1.531)	M15x1.0-6g 0.100R
13	C		22.9 (.902)	31.0 (1.220)				M18x1.0-6g 0.100R
15	D		26.4 (1.039)	34.2 (1.346)				M22x1.0-6g 0.100R
17	E		29.2 (1.150)	37.4 (1.472)				M25x1.0-6g 0.100R
19	F		32.4 (1.276)	40.2 (1.583)				M28x1.0-6g 0.100R
21	G		35.6 (1.402)	43.3 (1.705)				M31x1.0-6g 0.100R
23	H		38.8 (1.528)	46.5 (1.831)				M34x1.0-6g 0.100R
25	J		41.9 (1.650)	49.7 (1.957)				M37x1.0-6g 0.100R

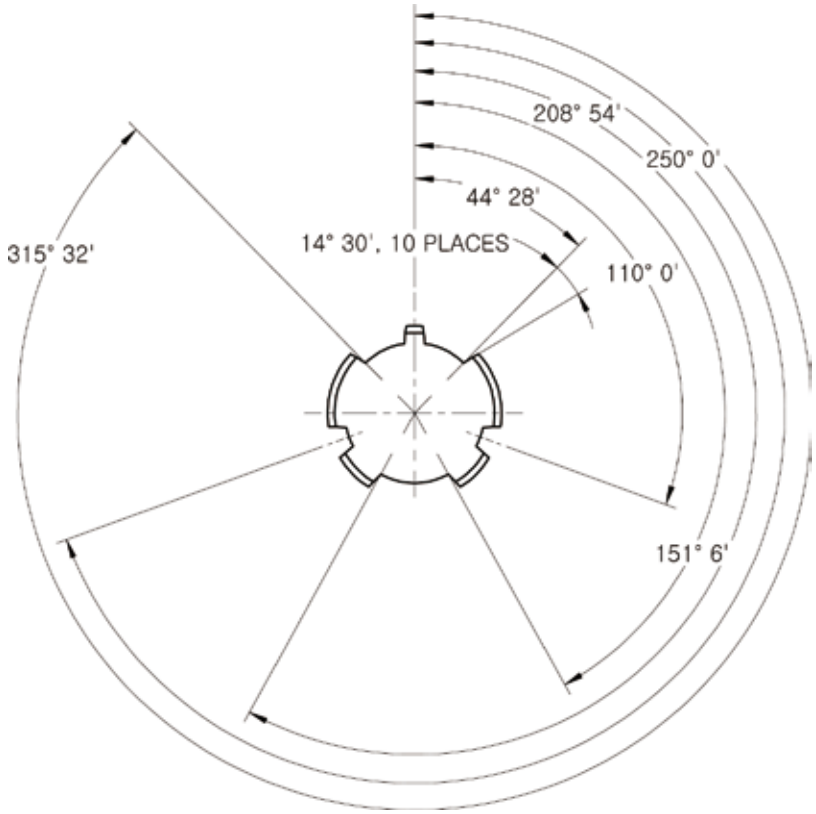
Plug key polarization



Shell size code (see note 15)	Piug, inner shell Main key and keyway polarization							Main keyway inner shell
	Shell size	LL dia	MMM dia BSC	PPP BSC	QQQ BSC	RRR BSC	SSS BSC	W3 BSC (see note 13)
B	11	13.33(.525) 13.10(.516)	15.01 (.591)	46°22'	149°13'	210°47'	313°38'	2.73 (.107)
C	13	16.79(.661) 16.53(.651)	18.34 (.772)	45°54'	149°3'	210°57'	314°6'	
D	15	19.96(.786) 19.71(.776)	21.49 (.846)	45°48'	149°10'	210°50'	314°12'	3.26 (.128)
E	17	23.17(.912) 22.91(.902)	24.66 (.971)	45°40'	149°19'	210°41'	314°20'	
F	19	26.06(1.026) 25.81(1.016)	27.69 (1.090)	45°34'	149°27'	210°33'	314°26'	3.76 (.148)
G	21	29.24(1.151) 28.98(1.141)	30.86 (1.215)	45°29'	149°29'	210°31'	314°31'	
H	23	32.41(1.276) 32.16(1.266)	34.14 (1.344)	45°27'	149°28'	210°32'	314°33'	4.28 (.169)
J	25	35.59(1.401) 35.33(1.391)	37.36 (1.471)	45°30'	149°34'	210°26'	314°30'	

SUNGJIN
MIL-DTL-38999 SE4 style connector

Receptacle key polarization



Receptacle Main key and keyway polarization									Main key (receptacle) (BSC) (see note 2)	
Shell size code (see note 15)	Shell size	MM dia (BSC)	PP°	QQ°	RR°	SS°	Z	Z² (see note 16)	Socket contact T1	Pin contact T2 (see note 4)
B	11	13.09 (.515)	44°28'	151°6'	208°54'	315°32'	1.83 (.072)	2.46 (.097)	1.90 (.075)	2.78 (.109)
C	13	16.51 (.650)	44°25'	150°31'	209°29'	315°35'	1.52 (.060)	2.16 (.085)	1.94 (.076)	2.85 (.112)
D	15	19.69 (.775)	44°33'	150°24'	209°36'	315°27'	2.34 (.092)	3.23 (.127)	2.43 (.096)	3.36 (.132)
E	17	22.89 (.901)	44°36'	150°22'	209°38'	315°24'	2.03 (.080)	2.92 (.115)	2.45 (.096)	3.40 (.134)
F	19	25.79 (1.015)	44°33'	150°27'	209°33'	315°27'	2.85 (.112)	3.99 (.157)	2.96 (.117)	3.91 (.154)
G	21	28.96 (1.140)	44°34'	150°23'	209°37'	315°26'	2.54 (.100)	3.68 (.145)	2.99 (.118)	3.94 (.155)
H	23	32.14 (1.265)	44°34'	150°20'	209°40'	315°26'	3.35 (.132)	4.75 (.187)	3.50 (.138)	4.46 (.176)
J	25	35.31 (1.390)	44°42'	150°22'	209°38'	315°18'	3.04 (.120)	4.45 (.175)	3.53 (.139)	4.49 (.177)

Key and keyway arrangement polarity dimensions										
	N	A	B	C	D	K (see note 16)	L	M	R	U
X° XX°	110°	100°	90°	80°	70°	120°	120°	120°	120°	0°
Y° YY°	250°	260°	270°	280°	290°	255°	265°	275°	285°	0°

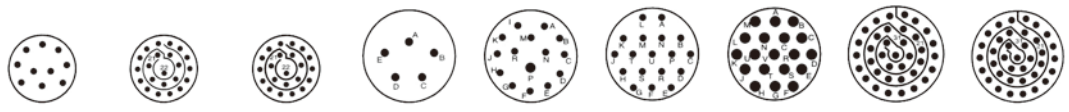
Contact Arrangements(Enganing View Pin Insert)

* Socket insert only
** Pin insert only(Not available in socket insert Series I and II)

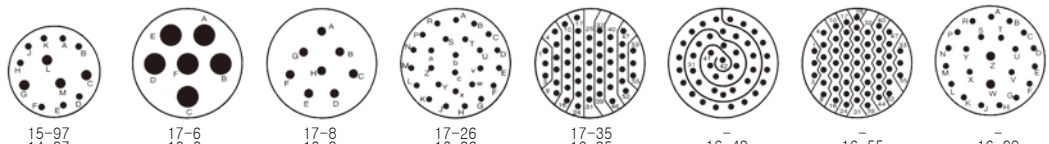
Inactive Inactive



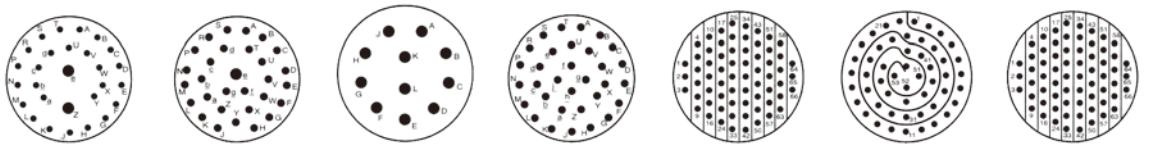
Series IV	–			–		–		–		–	–	
Series III	8-6	9-98	9-35	–	11-5	–	11-98	–	11-38	–	–	13-8
Series II	9-6**	8-98	8-35	–	10-5	10-35	10-98	10-99	10-35	12-3	12-4	12-8
Series I	6# 22M	9-98	9-35	11-4	11-5	11-35	11-98	11-99	11-35	–	13-4**	13-8
No. of Contacts	M	3# 20	6# 22D	4# 20	5 #20	13 #22M	6 #20	7 #20	13 #20D	3 #16	4 #16	8 #20
Service Ratings		I	M	I	I	M	I	I	M	I	I	I



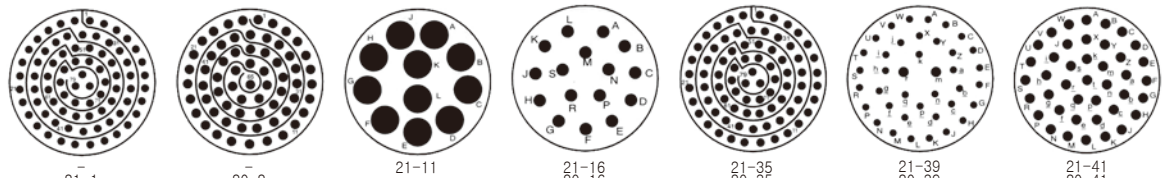
Series IV										–
Series III	13-98	–	13-35	15-15	15-15	15-18	15-19	15-35	15-35	14-37
Series II	12-98	12-22	12-35	14-15	14-15	14-18	–	14-35	14-35	15-37**
Series I	13-98	13-22**	13-35	15-15	15-15	15-18	15-19	15-35	15-35	37 #22M
No. of Contacts	10 #20	22 #22M	22 #22D	5 #16	14 #20, 1 #16	18 #20	19 #20	37 #22D	37 #22D	M
Service Ratings	I	M	M	II	I	I	I	M	M	M



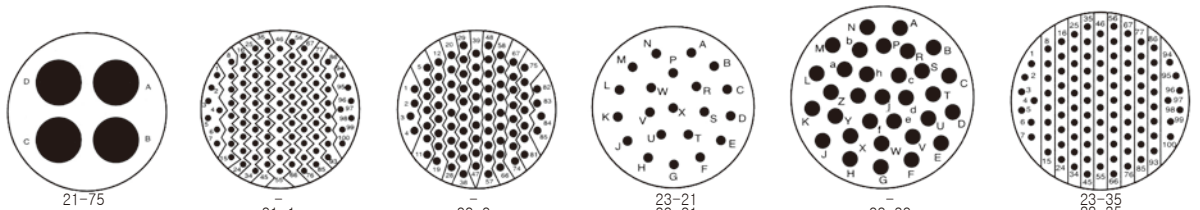
Series IV									–
Series III	15-97	17-6	17-8	17-26	17-35	–	–	–	–
Series II	14-97	16-6	16-8	16-26	16-35	16-42	16-55	16-55	16-99
Series I	15-97	17-6	17-8	17-26	17-35	–	–	17-55**	17-99**
No. of Contacts	8 #20, 4 #16	6 #12	8 #16	26 #20	52 #22D	42 #22	55 #22M	55 #22M	21 #20, 2 #16
Service Ratings	I	I	II	I	M	M	M	M	I



Series IV								–
Series III	–	–	19-11	19-32	19-35	–	–	–
Series II	18-28	18-30	19-11	19-32	19-35	18-53	18-66	19-66**
Series I	19-28	19-30**	19-11	19-32	19-35	–	–	66 #22M
No. of Contacts	26#20, 2#16	29 #20, 1 #16	11 #16	30 #20	66 #22D	53 #22	66 #22M	M
Service Ratings	I	I	II	I	M	M	M	



Series IV								–
Series III	–	–	21-11	21-16	21-35	21-39	21-41	20-41
Series II	21-1	20-2	–	20-16	20-35	20-39	20-41	21-41
Series I	21-1**	–	21-11	21-16	21-35	21-39	21-41	41 #20
No. of Contacts	79 #22M	65 #22	11 #12	16 #16	79 #22D	37 #20, 2 #16	41 #20	
Service Ratings	M	M	I	II	M	I	I	

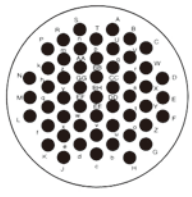


Series IV								–
Series III	–	–	–	23-21	–	–	23-35	22-35
Series II	21-75	21-1	22-2	22-21	22-32	22-32	23-35	23-35
Series I	–	23-1**	23-2	23-21	23-32	23-32	23-35	100 #22D
No. of Contacts	21-75**	100 #22M	85 #22M	21 #16	32 #20	I	100 #22D	M
Service Ratings	4 #8 Twinax	M	M	II	I		M	

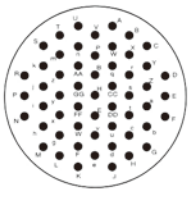
Please consult factory for availability of lavouts not shown.

Contact Arrangements(Enganing View Pin Insert)

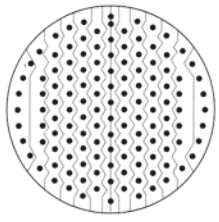
* Socket insert only
** Pin insert only(Not available in socket insert Series I and II)



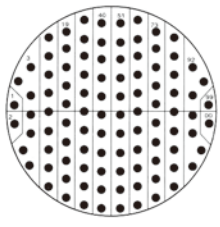
Series III	23-53
Series II	22-53
Series I	23-53
No. of Contacts	50 #20
Service Ratings	I



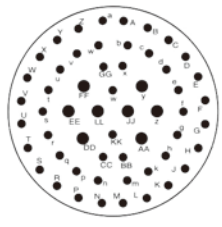
Series III	23-55
Series II	22-55
Series I	23-55
No. of Contacts	55 #20
Service Ratings	I



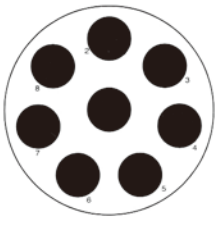
Series III	–
Series II	24-1
Series I	25-1**
No. of Contacts	128 #22M
Service Ratings	M



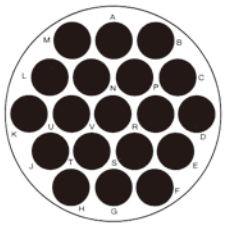
Series III	–
Series II	24-2
Series I	25-2**
No. of Contacts	100 #22
Service Ratings	M



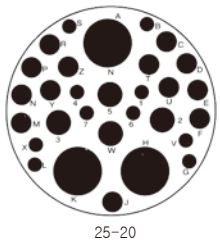
Series III	25-4
Series II	24-4
Series I	25-4
No. of Contacts	48 #20, 8 #16
Service Ratings	I



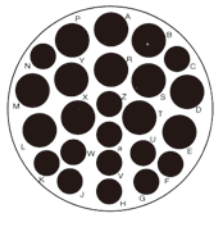
Series III	25-8
Series II	–
Series I	25-8
No. of Contacts	8 #8 Coax/Twinax
Service Ratings	Coax



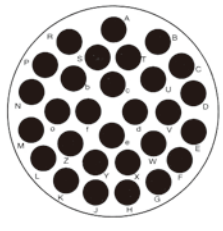
Series III	25-19
Series II	–
Series I	25-19
No. of Contacts	19 #12
Service Ratings	I



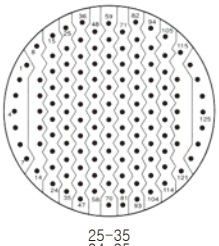
Series III	25-20
Series II	–
Series I	25-20**
No. of Contacts	3 #8Twinax, 13 #16 4 #12 Coax, 10 #20
Service Ratings	M



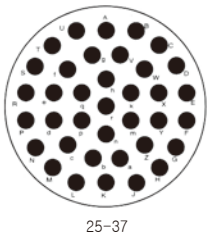
Series III	25-24
Series II	24-24
Series I	25-24
No. of Contacts	12 #16, 12 #12
Service Ratings	I



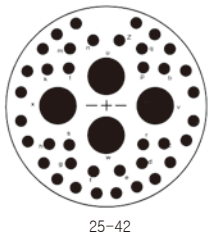
Series III	25-29
Series II	24-29
Series I	25-29
No. of Contacts	29 #16
Service Ratings	I



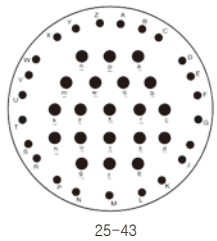
Series III	25-35
Series II	24-35
Series I	25-35
No. of Contacts	128 #22D
Service Ratings	M



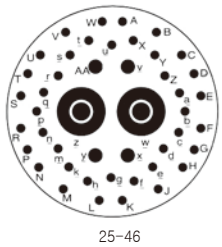
Series III	25-37
Series II	–
Series I	25-37**
No. of Contacts	37 #16
Service Ratings	I



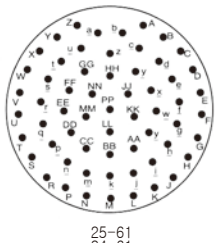
Series III	25-42
Series II	–
Series I	25-42**
No. of Contacts	38 #20, 4 #8 Coax
Service Ratings	I, Coax



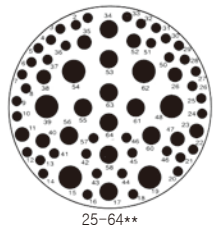
Series III	25-43
Series II	–
Series I	25-43
No. of Contacts	23 #20, 20 #16
Service Ratings	I



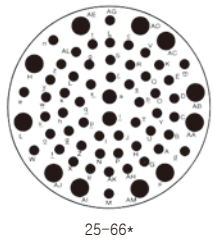
Series III	25-46
Series II	–
Series I	25-46
No. of Contacts	40 #20, 4 #16, 2 #8
Service Ratings	Coax



Series III	25-61
Series II	24-61
Series I	25-61
No. of Contacts	61 #20
Service Ratings	I



Series III	25-64**
Series II	–
Series I	25-64
No. of Contacts	40 #22D, 8 #20 10 #16, 6 #12
Service Ratings	I



Series III	25-66*
Series II	–
Series I	25-66*
No. of Contacts	53 #22D, 2 #20, 11 #16
Service Ratings	I