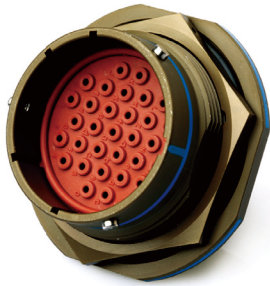


MIL-DTL-26482-II CONNECTOR

QPL certification





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MIL-DTL-26482-II Connector	MIL-DTL-26482-II Connector	Narrow Flange Receptacle (YH3470)	8
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Overview

The MIL-DTL-26482-II Connectors have earned the QPL certification, a testament to our company's advanced technological capabilities. These connectors utilize the bayonet coupling method, offering excellent electrical, mechanical, and environmental characteristics. Therefore, it is widely used in fields that demand the highest reliability such as aviation equipment and advanced capability is exceptional, effectively isolating electromagnetic waves ensuring an accurate signal line free from external interference. Additionally, wiring can be easily performed using a simple crimp tool. Thus, its distinctive features include the prevention of defects during soldering and a reduction in on-site work time.



MIL-DTL-26482-II Connector

ISO9001/ISO14001



How to order

Military Standard Cross Reference

MS3470

W

20-41

P

Y

MS Number Shell Style

Class

Shell Size

Contact Arrangement

Contact Style

Alternate Insert Position

• MS Number Shell Style

MS3470 - Narrow Flange Receptacle

MS3471 - Cable Connecting Receptacle

MS3472 - Wide Flange Receptacle

MS3474 - Jam Nut Receptacle

MS3475 - Straight Plug, RFI Shielded

MS3476 - Straight Plug

• Class

L - Electroless nickel coating

-55 °C to 200 °C (-67 °F to 392 °F)

W - Olive drab cadmium over electroless nickel plate

-55 °C to 175 °C (-67 °F to 347 °F)

• Shell Size

8, 10, 12, 14, 16, 18, 20, 22, 24

• Insert Arrangements

MIL-STD-1669

• Contact Style

P - Pin

S - Socket

A - Less Pin Contact

B - Less Socket Contact

• Polarization Positions

N (Normal), W, X, Y, Z (MIL-STD-1669)

Yeonhab Nomenclature

YH3470

W

20-41

P

Y

**

YH Number Shell Style

Class

Shell Size

Contact Arrangement

Contact Style

Alternate Insert Positions

Finish

• YH Number Shell Style

YH3470 - Narrow Flange Receptacle

YH3471 - Cable Connecting Receptacle

YH3472 - Wide Flange Receptacle

YH3474 - Jam Nut Receptacle

YH3475 - Straight Plug, RFI Shielded

YH3476 - Straight Plug

• Class

L - Electroless nickel coating

-55 °C to 200 °C (-67 °F to 392 °F)

W - Olive drab cadmium over electroless nickel plate

-55 °C to 175 °C (-67 °F to 347 °F)

• Shell Size

8, 10, 12, 14, 16, 18, 20, 22, 24

• Insert Arrangements

MIL-STD-1669 - see page 14

• Contact Style

P - Pin

S - Socket

A - Less Pin Contact

B - Less Socket Contact

• Polarization Positions

N (Normal), W, X, Y, Z (MIL-STD-1669) - see page 13

Mating Face View

Technical Data

Materials & Finishes

Description	Materials	Finishes
Shell, Coupling Nut, Jam Nut	Aluminium alloy	Electroless nickel coating
		Olive drab cadmium over electroless nickel plate
Insulator	Rigid Dielectric	—
Grommet, Interfacial and O-ring Seals	Silicone bass elastomer	—
contacts	Copper alloy	Gold plate per MIL-G-45204

Electrical Data

Contact size	AWG wire size	Insulation O.D. Limits (mm)		Max Current For Test (amps)	Potential Drop (Millivolts at 25°C)
		Min	Max		
12	12	2.46	4.01	23	50
	14			17	45
16	16	1.53	2.62	13	50
	20			7.5	45
20	20	1.02	2.11	7.5	55
	24			3.0	45

Service Rating	Operating Voltaire.	Dielectric Withstanding Voltage (Test Voltage), AC (rms), 60cps			
	Max. AC (rms)	Sea Level	50,000 (ft)	70,000 (ft)	110,000 (ft)
I	600	1500	500	375	200
II	1000	2300	750	500	200

Operating Temperature Range	Class L -55 °C to 200 °C , Class W -55 °C to 175 °C
Insulation Resistance	5000MQ Min (at 25°C)
Durability	500 cycle, mate and unmate

6 YEONHAB PRECISION CO., LTD.

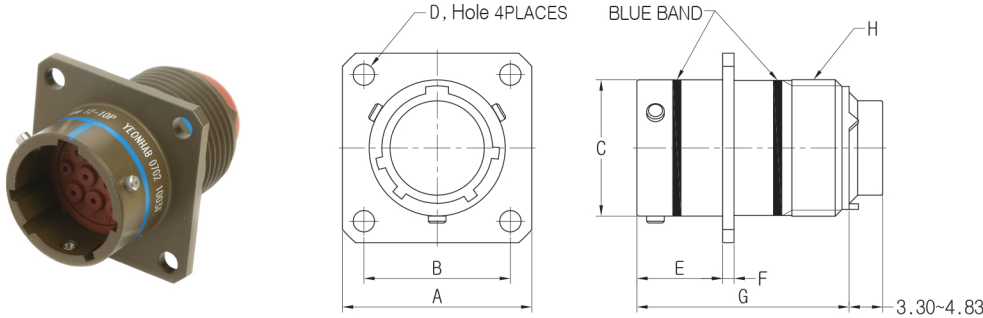
YEONHAB PRECISION CO., LTD. 7

MIL-DTL-26482-II Connector (Crimp type)

Narrow Flange Mount Receptacle (YH3470)

YH3470

Bayonet Type



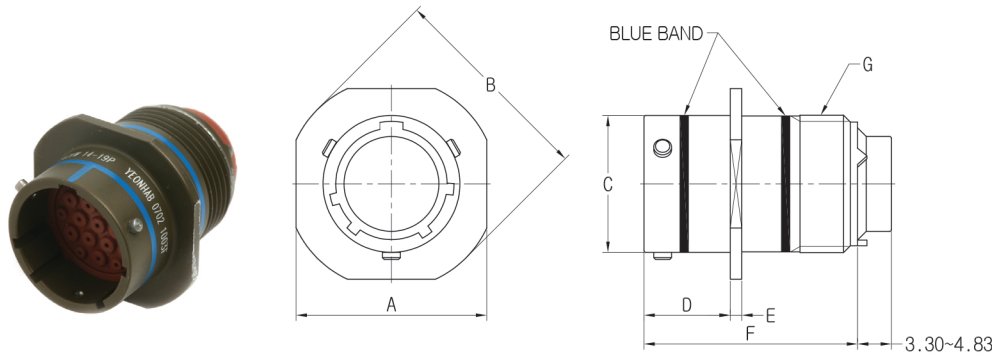
UNIT: mm

Shell Size	A Max.	B ±0.13	C Dia. +0.00 -0.15	D Dia.	E	F	G Max.	H Thread. (Class : 2A)
8	21.03	15.09	12.04	3.05	10.95~11.73	1.17~1.98	30.86	1/2-20UNF
10	24.23	18.26	15.01	3.05	10.95~11.73	1.17~1.98	30.86	5/8-24UNEF
12	26.59	20.62	19.08	3.05	10.95~11.73	1.17~1.98	30.86	3/4-24UNEF
14	28.98	23.01	22.25	3.05	10.95~11.73	1.17~1.98	30.86	7/8-20UNEF
16	31.34	24.61	25.43	3.05	10.95~11.73	1.17~1.98	30.86	1-20UNEF
18	33.73	26.97	28.60	3.05	10.95~11.73	1.17~1.98	30.86	1 1/16-18UNEF
20	36.91	29.36	31.78	3.05	14.12~14.91	1.98~2.79	32.39	1 3/16-18UNEF
22	40.08	31.75	34.95	3.05	14.12~14.91	1.98~2.79	32.39	1 5/16-18UNEF
24	43.26	34.93	38.13	3.73	14.96~15.75	1.98~2.79	32.39	1 7/16-18UNEF

Cable Connecting Receptacle (YH3471)

YH3471

Bayonet Type



UNIT: mm

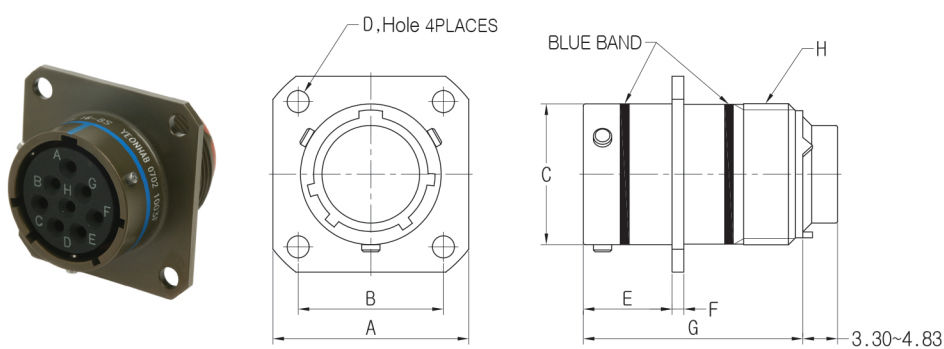
Shell Size	A Max.	B Dia.	C Dia. +0.00 -0.15	D	E	F Max.	G Thread. (Class : 2A)
8	21.03	23.32~24.33	12.04	10.95~11.73	1.17~1.98	30.86	1/2-20UNF
10	24.23	26.47~27.48	15.01	10.95~11.73	1.17~1.98	30.86	5/8-24UNEF
12	26.59	28.85~29.87	19.08	10.95~11.73	1.17~1.98	30.86	3/4-24UNEF
14	28.98	31.24~32.26	22.25	10.95~11.73	1.17~1.98	30.86	7/8-20UNEF
16	31.34	33.63~34.65	25.43	10.95~11.73	1.17~1.98	30.86	1-20UNEF
18	33.73	36.02~37.03	28.60	10.95~11.73	1.17~1.98	30.86	1 1/16-18UNEF
20	36.91	39.17~40.18	31.78	14.12~14.91	1.98~2.79	32.39	1 3/16-18UNEF
22	40.08	42.37~43.38	34.95	14.12~14.91	1.98~2.79	32.39	1 5/16-18UNEF
24	43.26	45.52~46.53	38.13	14.96~15.75	1.98~2.79	32.39	1 7/16-18UNEF

MIL-DTL-26482-II Connector (Crimp type)

Wide Flange Mounting Receptacle (YH3472)

YH3472

Bayonet Type



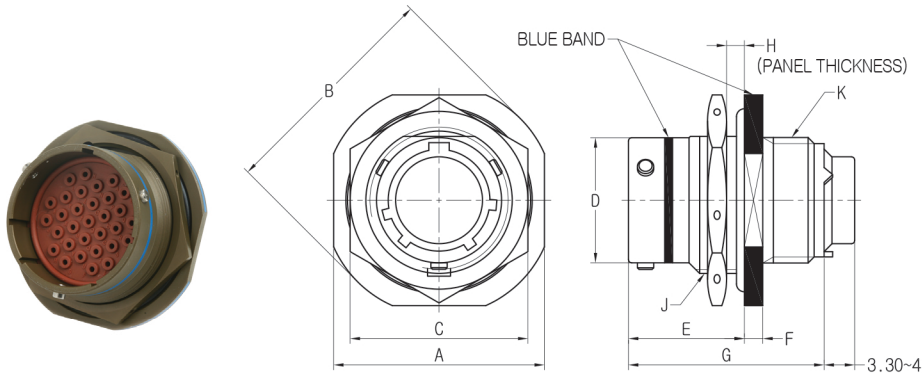
UNIT: mm

Shell Size	A Max.	B ±0.13	C Dia. +0.00 -0.15	D Dia.	E	F	G Max.	H Thread. (Class : 2A)
8	27.05	18.64	12.04	3.81	11.73~12.52	1.17~1.98	30.86	1/2-20UNF
10	28.98	20.62	15.01	3.81	11.73~12.52	1.17~1.98	30.86	5/8-24UNEF
12	32.16	23.83	19.08	3.81	11.73~12.52	1.17~1.98	30.86	3/4-24UNEF
14	34.54	26.19	22.25	3.81	11.73~12.52	1.17~1.98	30.86	7/8-20UNEF
16	36.91	28.58	25.43	3.81	11.73~12.52	1.17~1.98	30.86	1-20UNEF
18	38.91	30.56	28.60	3.81	11.73~12.52	1.17~1.98	30.86	1 1/16-18UNEF
20	42.88	32.94	31.78	3.81	14.12~14.91	1.98~2.79	32.39	1 3/16-18UNEF
22	44.86	34.93	34.95	3.81	14.12~14.91	1.98~2.79	32.39	1 5/16-18UNEF
24	48.03	38.10	38.13	3.81	14.96~15.75	1.98~2.79	32.39	1 7/16-18UNEF

Rear Mounting Jam Nut Receptacle (YH3474)

YH3474

Bayonet Type



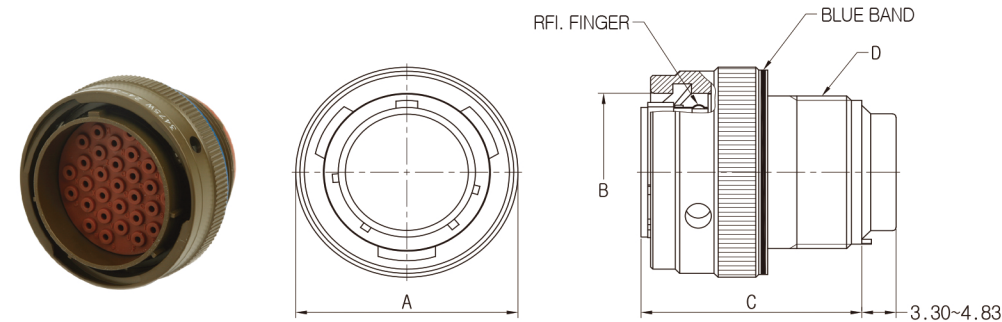
UNIT: mm

Shell Size	A Max.	B Dia.	C ±0.43	D Dia. +0.00 -0.15	E	F	G Max.	H	J Thread. (Class : 2A)	K Thread. (Class : 2A)
8	23.44~24.23	26.59~27.38	19.05	12.04	16.71~17.95	2.19~2.87	30.86	1.57~4.75	9/16-24UNEF	1/2-20UNF
10	26.59~27.38	29.77~30.56	22.23	15.01	16.71~17.95	2.19~2.87	30.86	1.57~4.75	11/16-24UNEF	5/8-24UNEF
12	31.37~32.16	34.54~35.33	26.97	19.08	16.71~17.95	2.19~2.87	30.86	1.57~4.75	7/8-20UNEF	3/4-24UNEF
14	34.54~35.33	37.72~38.58	30.18	22.25	16.71~17.95	2.19~2.87	30.86	1.57~4.75	1-20UNEF	7/8-20UNEF
16	37.72~38.51	40.89~41.68	33.32	25.43	16.71~17.95	2.19~2.87	30.86	1.57~4.75	1 1/8-18UNEF	1-20UNEF
18	40.89~41.68	44.07~44.86	36.53	28.60	16.71~17.95	2.19~2.87	30.86	1.57~4.75	1 1/4-18UNEF	1 1/16-18UNEF
20	45.64~46.43	48.84~49.63	39.67	31.78	18.31~19.61	2.44~3.76	32.39	1.57~6.35	1 3/8-18UNEF	1 3/16-18UNEF
22	48.84~49.63	51.99~52.78	42.88	34.95	18.31~19.61	2.44~3.76	32.39	1.57~6.35	1 1/2-18UNEF	1 5/16-18UNEF
24	51.99~52.78	55.17~55.96	46.02	38.13	18.31~19.61	2.44~3.76	32.39	1.57~5.56	1 5/8-18UNEF	1 7/16-18UNEF

MIL-DTL-26482-II Connector (Crimp type)

Straight Plug, RFI Shielded (YH3475)

YH3475
(RFI Ground finger type)
Bayonet Type



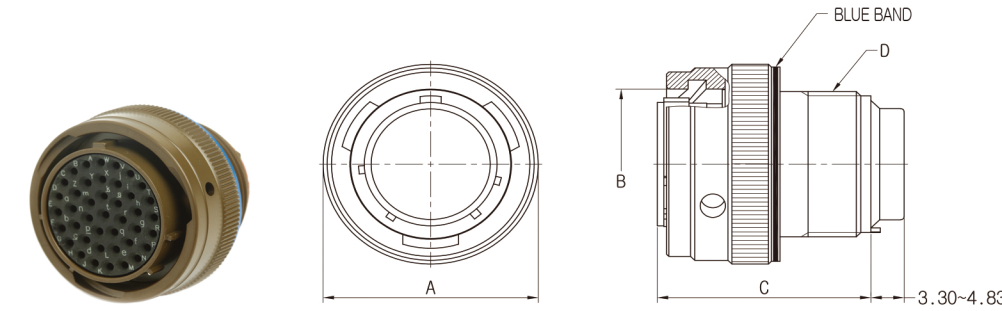
UNIT: mm

Shell Size	A Dia. Max.	B Dia.	C Max.	D Thread. (Class : 2A)
8	19.86	12.19~12.34	31.24	1/2-20UNF
10	23.52	15.27~15.42	31.24	5/8-24UNEF
12	26.49	19.30~19.46	31.24	3/4-24UNEF
14	30.05	22.45~22.61	31.24	7/8-20UNEF
16	33.15	25.63~25.78	31.24	1-20UNEF
18	35.33	28.83~28.98	31.24	1 1/16-18UNEF
20	38.89	31.98~32.13	31.24	1 3/16-18UNEF
22	42.06	35.15~35.31	31.24	1 5/16-18UNEF
24	45.14	38.33~38.48	31.24	1 7/16-18UNEF

Straight Plug (YH3476)

YH3476

Bayonet Type

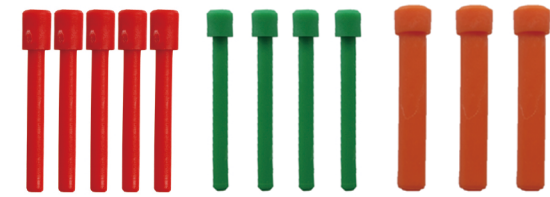


UNIT: mm

Shell Size	A Dia. Max.	B Dia.	C Max.	D Thread. (Class : 2A)
8	19.86	12.19~12.34	31.24	1/2-20UNF
10	23.52	15.27~15.42	31.24	5/8-24UNEF
12	26.49	19.30~19.46	31.24	3/4-24UNEF
14	30.05	22.45~22.61	31.24	7/8-20UNEF
16	33.15	25.63~25.78	31.24	1-20UNEF
18	35.33	28.83~28.98	31.24	1 1/16-18UNEF
20	38.89	31.98~32.13	31.24	1 3/16-18UNEF
22	42.06	35.15~35.31	31.24	1 5/16-18UNEF
24	45.14	38.33~38.48	31.24	1 7/16-18UNEF

MIL-DTL-26482-II Connector (Crimp type)

Sealing Plug



Contact Size	MS Part Number	Color Code
20	MS27488-20-2	Red
16	MS27488-16-2	Green
12	MS27488-12-2	Orange

Insertion / Removal Tools



Contact Size	Color Code	Part Number
20	Red/White	M81969/14-11
16	Blue/White	M81969/14-03
12	Yellow/White	M81969/14-04
22 (Insert Arrangement 8-2, 8-3, 8-4 only)	Green/White	M81969/14-01

Contacts



Contact Size	Wire Range		Pin Contact	Socket Contact
	AWG	mm²	MS Part Number	MS Part Number
20	20 ~ 24	0.2 ~ 0.6	M39029/4-110	M39029/5-115
16	16 ~ 20	0.5 ~ 1.4	M39029/4-111	M39029/5-116
12	12 ~ 14	2.0 ~ 3.0	M39029/4-113	M39029/5-118

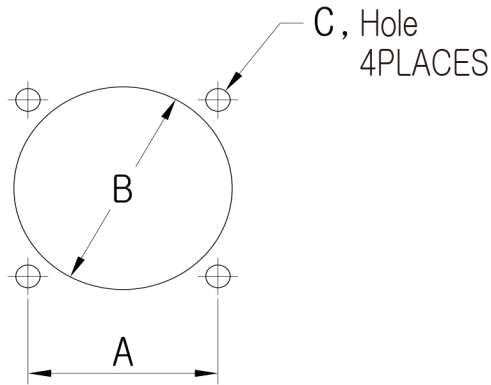
Crimping Tools



Contact Size	Wire Range		Finished Wire Dia. Range		Crimping tool Part Number	Turret or Positioner Part Number
	AWG	mm²	Inch	mm		
20	20 ~ 24	0.2 ~ 0.6	.040 ~ .083	1.02 ~ 2.11	M22520/1-01 or M22520/2-01	M22520/1-02 or M22520/2-02
16	16 ~ 20	0.5 ~ 1.4	.053 ~ .103	1.34 ~ 2.62	M22520/1-01	M22520/1-02
12	12 ~ 14	2.0 ~ 3.0	.097 ~ .158	2.46 ~ 4.01	M22520/1-01	M22520/1-02

MIL-DTL-26482-II Connector Panel cutouts

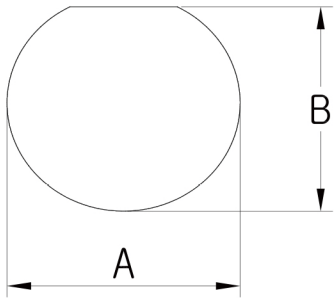
Mounting Receptacle



UNIT: mm

Shell Size	Narrow Flange Mounting			Wide Flange Mounting		
	A	B Dia.	C Dia.	A ±0.10	B Dia.	C Dia.
8	14.96~15.21	14.30~14.55	2.79~3.30	18.64	14.30~14.55	3.56~4.06
10	18.14~18.39	17.27~17.53	2.79~3.30	20.62	17.27~17.53	3.56~4.06
12	20.50~20.75	21.82~22.07	2.79~3.30	23.83	21.82~22.07	3.56~4.06
14	22.89~23.14	24.99~25.25	2.79~3.30	26.19	24.99~25.25	3.56~4.06
16	24.49~24.74	28.14~28.40	2.79~3.30	28.58	28.14~28.40	3.56~4.06
18	26.85~27.10	31.32~31.57	2.79~3.30	30.56	31.32~31.57	3.56~4.06
20	29.24~29.49	34.49~34.75	2.79~3.30	32.94	34.49~34.75	3.56~4.06
22	31.62~31.88	37.67~37.92	2.79~3.30	34.93	37.67~37.92	3.56~4.06
24	34.80~35.05	40.89~41.15	3.48~3.99	38.10	40.89~41.15	3.56~4.06

Jam Nut Receptacle

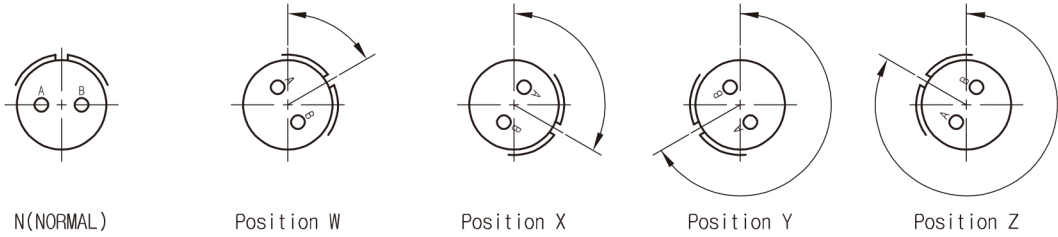


UNIT: mm

Shell Size	A Dia. ±0.13	B ±0.13
8	15.53	13.61
10	17.70	16.79
12	22.73	20.93
14	25.65	24.08
16	28.83	27.23
18	32.00	30.40
20	35.18	33.58
22	38.35	36.75
24	41.53	39.93

MIL-DTL-26482-II Connector Polarization positions

INSERT AVAILABILITY AND IDENTIFICATION



Look into front face of pin insert or rear of socket insert.

Shell Size	Insert Arrangement	Service Rating	Total Contacts	Contact Size			Polarization Positions (Degree)			
				20	16	12	W	X	Y	Z
8	8-2	I	2	2			58	122		
	8-3	I	3	3			60	210		
	8-4	I	4	4			45			
	8-33	I	3	3			90			
	8-98	I	3	3						
10	10-6	I	6	6			90			
12	12-3	II	3		3				180	
	12-8	I	8	8			90	112	203	292
	12-10	I	10	10			60	155	270	295
14	14-4	I	4			4	45			
	14-5	II	5		5		40	92	184	273
	14-12	I	12	8	4		43	90		
	14-15	I	15	14	1		17	110	155	234
	14-18	I	18	18			15	90	180	270
	14-19	I	19	19			30	165	315	
16	16-8	II	8		8		54	152	180	331
	16-14	I	14	8		6	25	78	180	240
	16-23	I	23	22	1		158	270		
	16-26	I	26	26			60		275	338
	16-99	I	23	21	2		66	156	223	340
18	18-8	I	8			8	180			
	18-11	II	11		11		62	119	241	340
	18-32	I	32	32			85	138	222	265
20	20-16	II	16		16		238	318	333	347
	20-39	I	39	37	2		83	144	252	333
	20-41	I	41	41			45	126	225	
22	22-12	I	12			12				
	22-21	II	21		21		16	135	175	349
	22-41	I	41	27	14		39	135	264	
24	22-55	I	55	55			30	142	226	314
	24-19	I	19			19	30	165	315	
	24-31	I	31		31		90	225	255	
24										
	24-61	I	61	61			90	180	270	324

* Please refer to MIL-STD-1669 for contact arrangements other than the ones in the table.

MIL-DTL-26482-II Connector Insert arrangements

Shell Size 8					Shell Size 10		Shell Size 12												
Insert Arrangement					10-6		12-3												
Service Rating					6		3												
Number of Contacts					20		8												
Contact Size					20		20												
Shell Size 14																			
14-4			14-5		14-12		14-15		14-18		14-19								
4			5		8		14		18		19								
12			16		20		20		20		20								
Shell Size 16									Shell Size 18										
16-8			16-14			16-23			16-26			16-99			18-8				
8			8			22			26			21			8				
16			6			1			20			2			12				
			20			16						20							
Shell Size 18									Shell Size 20										
18-11					18-32				20-16			20-39			20-41				
11					32				16			37			41				
16					20				16			20			20				
Shell Size 22									Shell Size 24										
22-12					22-21					22-41					22-55				
12					21					27					55				
12					16					20					20				

▶ Look into front face of pin insert(+insulator).
▶ Please make a direct inquiry for the information not contained in the table.
▶ The contact arrangement in the table meets the MIL-STD-1669 standards.

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Contact Legend121620

