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KUKDONG Electronic Precision Co., Ltd.

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MIL-DTL-26482 SERIES II CONNECTOR



www.kdep.co.kr

KD connectors are designed, manufactured and tested to MIL-DTL-26482 series II, the military detailed specification. The connector series are used in the demanding high reliability and a quick mating, 3 point bayonet coupling system.



KUKDONG

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MIL-DTL-26482 Series II

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MIL-DTL-26482 Series II

Introduction

Introduction

The KD MIL-DTL-26482 Series II connectors are used extensively in the demanding high reliability and a quick-mating, three point bayonet coupling system, which have an excellent electrical, mechanical, and environmental characteristic. Therefore it is widely applied in fields that require the highest reliability such as aviation equipment and state-of-the-art missile communication tools. The KD rugged high-quality silicone seals, the connectors work in the harshest of conditions.

Features

High-Quality contact system

The KD MIL-DTL-26482 Series II connectors use industry standard M39029 crimp-style contacts and the field proven little caesar contact retention clip that locks the contact into place while allowing easy insertion and removal with simple and low-cost plastic tools.

Wide range of cable accessories including military standard

Unlike MIL-DTL-26482 Series I style connectors, MIL-DTL-26482 Series II style are supplies without rear accessories but with military standard rear threads. This lets users choose from one of the broadest array of endbells, including M85049 standard endbells, from low-cost simple cable tie versions to fully environmental sealed EMI shielded endbells.

Broad operating temperatures

The KDs are constructed using high-quality silicone for the peripheral, interfacial and wire seals. This, along with the stable hard dielectric insert material that houses the Little Caesar contact retention clip provide operating temperature from -55°C up to +200°C

Rear contact insertion and release system

Used properly, the insertion and extraction tools never touch or come in contact with or damage the interfacial seals, a common problem with front release contact systems.

Cork in a bottle interfacial seal system

Socket inserts are constructed with a hard dielectric and funnel-shaped contact lead-ins which not only assist aligning the contacts when mating, but also provide for compression of the raised individual contact seals on the high-quality silicone interfacial seals of the pin insert.

MIL-DTL-26482 Series II

Technical Data

Electrical Data

Contact rating

Wire size AWG	Contact size AWG	Current max. [A]
24	20	3.0
20	20	7.5
20	16	7.5
16	16	13.0
14	12	17.0
12	12	23.0

Insulation resistance

5,000 MΩ min. at 25°C
 Class L : 500 MΩ min. at 200°C
 Class W : 500 MΩ min. at 175°C

Test & operating voltage

Service rating	Operating voltage at Sea Level	
	DC	AC(rms)
I	850	600
II	1,275	1,000

Service rating	Test voltage AC (rms)			
	sea level	50,000ft	70,000ft	110,000ft
I	1,500	500	375	200
II	2,300	750	500	200

Insulation Strip Length

Wire size AWG	Contact size AWG	Strip Length [mm]
20 - 24	20	4.76
16 - 20	20	7.14
12 - 14	16	7.14

Mechanical Features

Ambient temperature

-55°C to +200°C

Durability

500 mating cycles

Salt Spray

Class W 48 hours unmated. 452 hours mated per EIA/ECA364-26 and MIL-DTL-26482

Vibration

Max at 10 to 2,000Hz(20g) discontinuity per MIL-DTL-26482 G

Shock

300g/3ms duration, three major axes 1μs max discontinuity per EIA364-27 and MIL-DTL-26482

Contact retention

The contact retention to be tested per EIA364-29 and MIL-DTL-26482

Contact size AWG	Test force N (lbs)
20	20
16	25
12	30

Wire Sealing Range

Contact size AWG	Wire sealing Range Min. [mm]	Wire sealing Range Max. [mm]
20	1.02	2.11
16	1.35	2.62
12	2.46	4.01

MIL-DTL-26482 Series II

Mechanical Features

Shell

Material	Aluminum alloy
Finish	Olive drab cadmium plate finish as standard

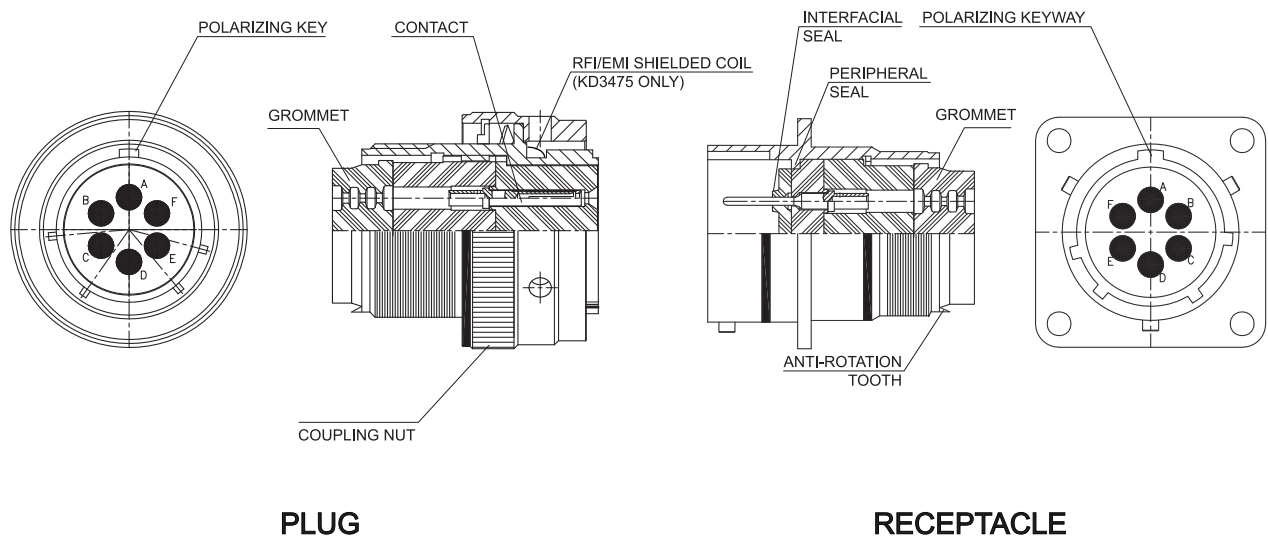
Insulator, Grommet & seal

Insulator	Rigid plastic dielectric
Grommet	Silicone based elastomer
Seal	Silicone based elastomer

Contact

Material	Copper alloy
Finish	Gold plate

Cross Sections



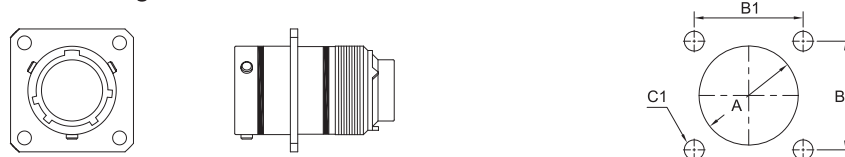
MIL-DTL-26482 Series II

Mounting Dimensions

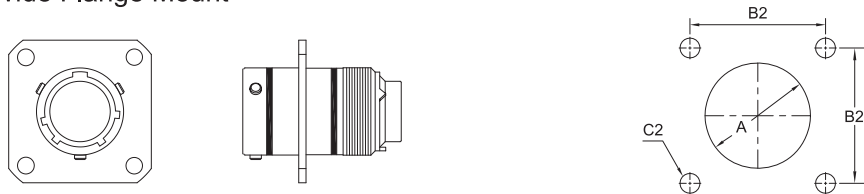
Mounting Holes

Mounting holes for receptacle style KD3470, KD3472 and KD3474 according to MIL-DTL-26482

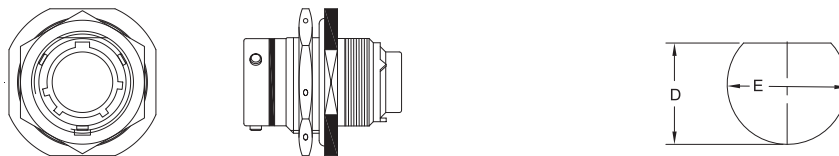
KD3470 Narrow Flange Mount



KD3472 Wide Flange Mount



KD3474 Jam nut Mount



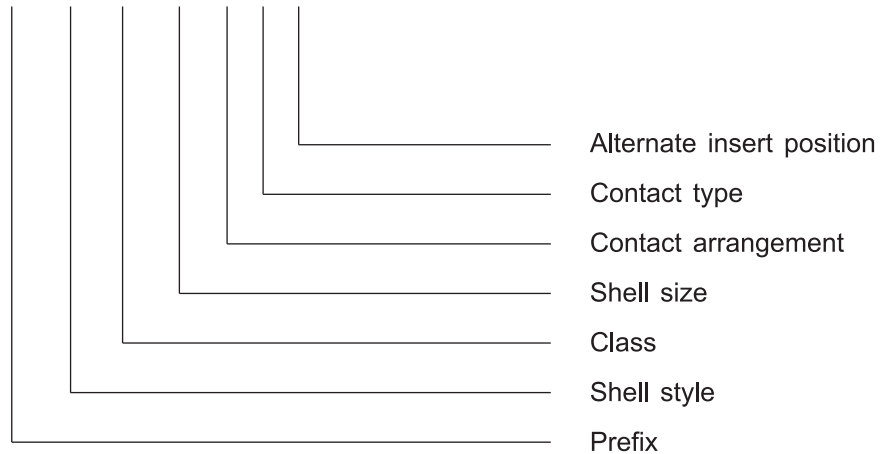
Shell size	$\varnothing A$ +0.25	B1 +0.13	B2 ± 0.13	$\varnothing C1$ +0.25	$\varnothing C2$ +0.25	D ± 0.13	E ± 0.13
8	14.30	15.08	18.64	3.05	3.81	13.61	14.53
10	17.27	18.26	20.62	3.05	3.81	16.79	17.70
12	21.82	20.62	23.83	3.05	3.81	20.93	22.73
14	24.99	23.01	26.19	3.05	3.81	24.08	25.65
16	28.14	24.61	28.58	3.05	3.81	27.23	28.83
18	31.32	26.97	30.56	3.05	3.81	30.40	32.00
20	34.49	29.36	32.94	3.05	3.81	33.58	35.18
22	37.67	31.75	34.93	3.05	3.81	36.75	38.35
24	40.89	34.92	38.10	3.73	3.81	39.93	41.53

MIL-DTL-26482 Series II

How to order

MS 3472 W 12 - 10 P W

KD 3472 W 12 - 10 P W



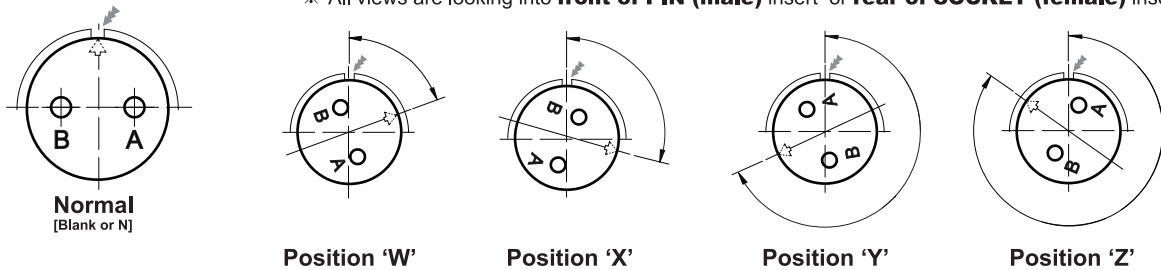
Prefix	MS - Conform to latest MIL-DTL-26482 revision KD - KUKDONG designation for any modifications
Shell style	3470 - Narrow flange mounting receptacle 3471 - Cable connecting receptacle 3472 - Wide flange mounting receptacle 3474 - Jam nut receptacle 3475 - Plug & RFI shielded 3476 - Plug
Class	A - Non-conductive fluid resistant insert hard anodic finish L - Conductive fluid resistant insert electroless nickel plated W - Corrosive and fluid resistant olive drab cadmium plated
Shell size	8, 10, 12, 14, 16, 18, 20, 22 and 24
Contact arrangements	See pages 7 to 10
Contact type	P - Pin (male) / S - Socket (female)
Alternate insert position	'W', 'X', 'Y' and 'Z' (omit for 'Normal'), see page 7

MIL-DTL-26482 Series II

Contact arrangements

Alternate Insert Positions

※ All views are looking into **front of PIN (male)** insert or **rear of SOCKET (female)** insert.



Shell Size	Contact Arrangement	Contacts (AWG)				Alternate Positions (Degrees)			
		Total	20	16	12	W	X	Y	Z
8	8-3	3	3			60	210		
	8-4	4	4			45			
	8-33	3	3			90			
	8-98	3	3						
10	10-6	6	6			90			
12	12-3	3		3				180	
	12-8	8	8			90	112	203	292
	12-10	10	10			60	155	270	295
14	14-4	4			4	45			
	14-5	5		5		40	92	184	273
	14-9	9	5		4	15	90	180	240
	14-12	12	8	4		43	90		
	14-15	15	14	1		17	110	155	234
	14-18	18	18			15	90	180	270
	14-19	19	19			30	165	315	
16	16-8	8		8		54	152	180	331
	16-14	14	8		6	25	78	180	240
	16-23	23	22	1		158	270		
	16-26	26	26			60		275	338
18	18-8	8			8	180			
	18-11	11		11		62	119	241	340
	18-32	32	32			85	138	222	265
20	20-16	16		16		238	318	333	347
	20-39	39	37	2		83	144	252	333
	20-41	41	41			45	126	225	
22	22-12	12			12				
	22-21	21		21		16	135	175	349
	22-41	41	27	14		39	135	264	
	22-55	55	55			30	142	226	314
24	24-19	19			19	30	165	315	
	24-31	31		31		90	225	255	
	24-61	61	61			90	180	270	324

MIL-DTL-26482 Series II

Contact Arrangements

CONTACT SIZE

20 ○ 16 ● 12 ⊕

Shell Size # 8



Insert number	8-3	8-4	8-33	8-98
No. of contacts	3	4	3	3
Contact size	#20	#20	#20	#20
Service rating	I	I	I	I

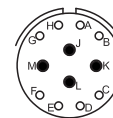
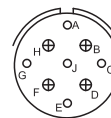
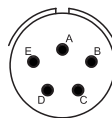
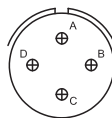
Shell Size # 10

Shell Size # 12

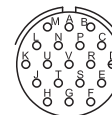
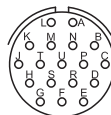
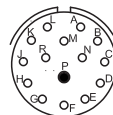


Insert number	10-6	12-3	12-8	12-10
No. of contacts	6	3	8	10
Contact size	#20	#16	#20	#20
Service rating	I	II	I	I

Shell Size # 14



Insert number	14-4	14-5	14-9	14-12
No. of contacts	4	5	9	12
Contact size	#12	#16	#20[5],#12[4]	#20[8],#16[4]
Service rating	I	II	I	I



Insert number	14-15	14-18	14-19
No. of contacts	15	18	19
Contact size	#20[14],#16[1]	#20	#20
Service rating	I	I	I

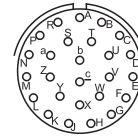
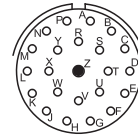
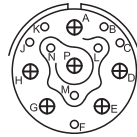
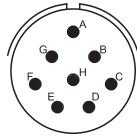
MIL-DTL-26482 Series II

Contact Arrangements

CONTACT SIZE

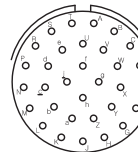
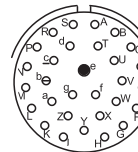
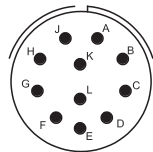
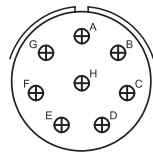
20 ○ 16 ● 12 ⊕

Shell Size # 16



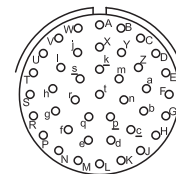
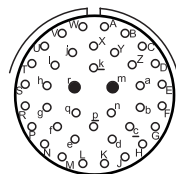
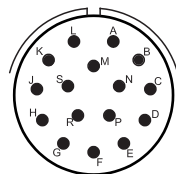
Insert number	16-8	16-14	16-23	16-26
No. of contacts	8	14	23	26
Contact size	#16	#20[8],#12[6]	#20[22],#16[1]	#20
Service rating	II	I	I	I

Shell Size # 18



Insert number	18-8	18-11	18-30	18-32
No. of contacts	8	11	30	32
Contact size	#12	#16	#20[29],#16[1]	#20
Service rating	I	II	I	I

Shell Size # 20



Insert number	20-16	20-39	20-41
No. of contacts	16	39	41
Contact size	#16	#20[37],#16[2]	#20
Service rating	II	I	I

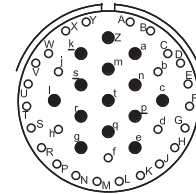
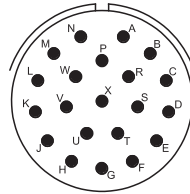
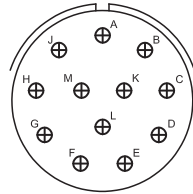
MIL-DTL-26482 Series II

Contact Arrangements

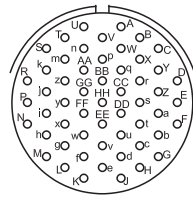
CONTACT SIZE

20 ○ 16 ● 12 ⊕

Shell Size # 22

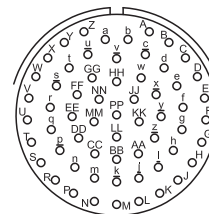
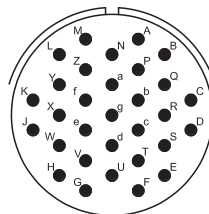
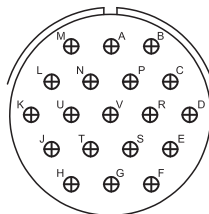


Insert number	22-12	22-21	22-41
No. of contacts	12	21	41
Contact size	#12	#16	#20[27],#16[14]
Service rating	I	II	I



Insert number	22-55
No. of contacts	55
Contact size	#20
Service rating	I

Shell Size # 24



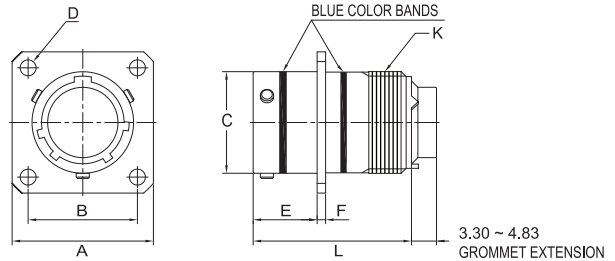
Insert number	24-19	24-31	24-61
No. of contacts	19	31	61
Contact size	#12	#16	#20
Service rating	I	I	I

MIL-DTL-26482 Series II

Connector Dimensions

KD3470 / MS3470

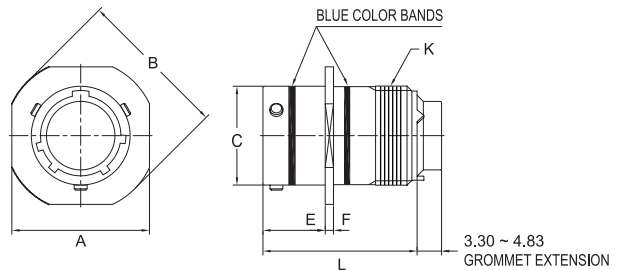
Narrow Flange Mounting Receptacle



Shell size	□A	□B	∅C	∅D	E		F		L	K
	max	±0.13	±0.08	±0.13	min	max	min	max		
8	21.03	15.99	11.96	3.05	10.95	11.73	1.17	1.98	30.86	1/2-20UNEF
10	24.23	18.26	14.94	3.05	10.95	11.73	1.17	1.98	30.86	5/8-24UNEF
12	26.59	20.62	19.00	3.05	10.95	11.73	1.17	1.98	30.86	3/4-20UNEF
14	28.98	23.01	22.17	3.05	10.95	11.73	1.17	1.98	30.86	7/8-20UNEF
16	31.34	24.61	25.35	3.05	10.95	11.73	1.17	1.98	30.86	1 -20UNEF
18	33.73	26.97	28.52	3.05	10.95	11.73	1.17	1.98	30.86	1 1/16-18UNEF
20	36.91	29.36	31.70	3.05	14.12	14.91	1.98	2.79	32.39	1 3/16-18UNEF
22	40.08	31.75	34.87	3.05	14.12	14.91	1.98	2.79	32.39	1 5/16-18UNEF
24	43.26	34.93	38.05	3.73	14.96	15.75	1.98	2.79	32.39	1 7/16-18UNEF

KD3471 / MS3471

Cable Connecting Receptacle



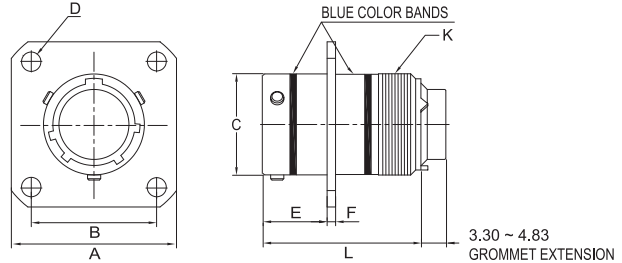
Shell size	□A	∅B		∅C	E		F		L	K
	max	min	max	±0.08	min	max	min	max		
8	21.03	23.32	24.33	11.96	10.95	11.73	1.17	1.98	30.86	1/2-20UNEF
10	24.23	26.47	27.48	14.94	10.95	11.73	1.17	1.98	30.86	5/8-24UNEF
12	26.59	28.85	29.87	19.00	10.95	11.73	1.17	1.98	30.86	3/4-20UNEF
14	28.98	31.24	32.26	22.17	10.95	11.73	1.17	1.98	30.86	7/8-20UNEF
16	31.34	33.63	34.65	25.35	10.95	11.73	1.17	1.98	30.86	1 -20UNEF
18	33.73	36.02	37.03	28.52	10.95	11.73	1.17	1.98	30.86	1 1/16-18UNEF
20	36.91	39.17	40.18	31.70	14.12	14.91	1.98	2.79	32.39	1 3/16-18UNEF
22	40.08	42.37	43.38	34.87	14.12	14.91	1.98	2.79	32.39	1 5/16-18UNEF
24	43.26	45.52	46.53	38.05	14.96	15.75	1.98	2.79	32.39	1 7/16-18UNEF

MIL-DTL-26482 Series II

Connector Dimensions

KD3472 / MS3472

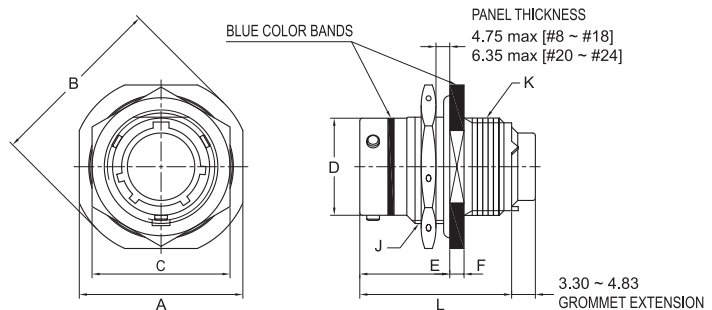
Wide Flange Mounting Receptacle



Shell size	□A	□B	∅C	∅D	E		F		L	K
	max	±0.13	±0.08	±0.13	min	max	min	max	max	THD-2A
8	27.05	18.64	11.96	3.81	11.73	12.52	1.17	1.98	30.86	1/2-20UNEF
10	28.98	20.62	14.94	3.81	11.73	12.52	1.17	1.98	30.86	5/8-24UNEF
12	32.16	23.83	19.00	3.81	11.73	12.52	1.17	1.98	30.86	3/4-20UNEF
14	34.54	26.19	22.17	3.81	11.73	12.52	1.17	1.98	30.86	7/8-20UNEF
16	36.91	28.58	25.35	3.81	11.73	12.52	1.17	1.98	30.86	1 -20UNEF
18	38.91	30.56	28.52	3.81	11.73	12.52	1.17	1.98	30.86	1 1/16-18UNEF
20	42.88	32.94	31.70	3.81	14.12	14.91	1.98	2.79	32.39	1 3/16-18UNEF
22	44.86	34.93	34.87	3.81	14.12	14.91	1.98	2.79	32.39	1 5/16-18UNEF
24	48.03	38.10	38.05	3.81	14.96	15.75	1.98	2.79	32.39	1 7/16-18UNEF

KD3474 / MS3474

Jam Nut Receptacle



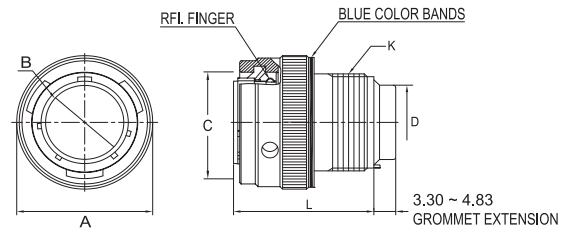
Shell size	□A	∅B	□C	∅D	E		F		L	J	K
	max	max	max	±0.08	min	max	min	max	max	THD-2A	THD-2A
8	24.23	27.38	19.48	11.96	16.71	17.96	2.18	2.87	30.86	9/16-24UNEF	1/2-20UNEF
10	27.38	30.56	22.66	14.94	16.71	17.96	2.18	2.87	30.86	11/16-24UNEF	5/8-24UNEF
12	32.16	35.33	27.41	19.00	16.71	17.96	2.18	2.87	30.86	7/8-20UNEF	3/4-20UNEF
14	35.33	38.51	30.61	22.17	16.71	17.96	2.18	2.87	30.86	1 -20UNEF	7/8-20UNEF
16	38.51	41.68	33.76	25.35	16.71	17.96	2.18	2.87	30.86	1 1/8-18UNEF	1 -20UNEF
18	41.68	44.86	36.96	28.52	16.71	17.96	2.18	2.87	30.86	1 1/4-18UNEF	1 1/16-18UNEF
20	46.43	49.63	40.11	31.70	18.31	19.61	2.44	3.76	32.39	1 3/8-18UNEF	1 3/16-18UNEF
22	49.63	52.78	43.31	34.87	18.31	19.61	2.44	3.76	32.39	1 1/2-18UNEF	1 5/16-18UNEF
24	52.78	55.96	46.46	38.05	18.31	19.61	2.44	3.76	32.39	1 5/8-18UNEF	1 7/16-18UNEF

MIL-DTL-26482 Series II

Connector Dimensions

KD3475 / MS3475

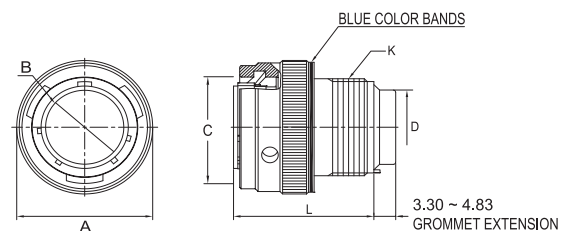
Straight Plug With RFI Grounding Fingers



Shell size	□A max	∅B min	∅C +0.07 -0.08	∅D max	L max	K THD-2A
8	19.86	7.42	9.02	7.75	31.24	1/2-20UNEF
10	23.52	10.39	12.27	10.29	31.24	5/8-24UNEF
12	26.49	13.28	15.12	13.49	31.24	3/4-20UNEF
14	30.05	16.46	18.29	16.89	31.24	7/8-20UNEF
16	33.15	19.61	21.46	20.07	31.24	1 -20UNEF
18	35.33	21.89	24.00	22.07	31.24	1 1/16-18UNEF
20	38.89	25.07	27.17	25.25	31.24	1 3/16-18UNEF
22	42.06	28.22	30.36	28.42	31.24	1 5/16-18UNEF
24	45.14	31.42	33.53	31.60	31.24	1 7/16-18UNEF

KD3476 / MS3476

Straight Plug



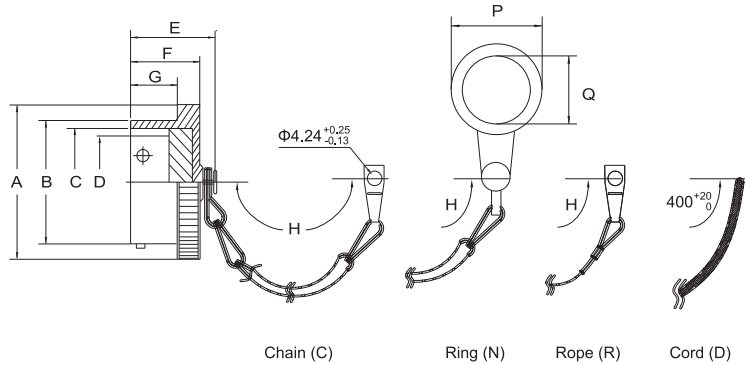
Shell size	□A max	∅B min	∅C +0.07 -0.08	∅D max	L max	K THD-2A
8	19.86	7.42	9.02	7.75	31.24	1/2-20UNEF
10	23.52	10.39	12.27	10.29	31.24	5/8-24UNEF
12	26.49	13.28	15.12	13.49	31.24	3/4-20UNEF
14	30.05	16.46	18.29	16.89	31.24	7/8-20UNEF
16	33.15	19.61	21.46	20.07	31.24	1 -20UNEF
18	35.33	21.89	24.00	22.07	31.24	1 1/16-18UNEF
20	38.89	25.07	27.17	25.25	31.24	1 3/16-18UNEF
22	42.06	28.22	30.36	28.42	31.24	1 5/16-18UNEF
24	45.14	31.42	33.53	31.60	31.24	1 7/16-18UNEF

MIL-DTL-26482 Series II

Accessories

KD3180 / MS3180

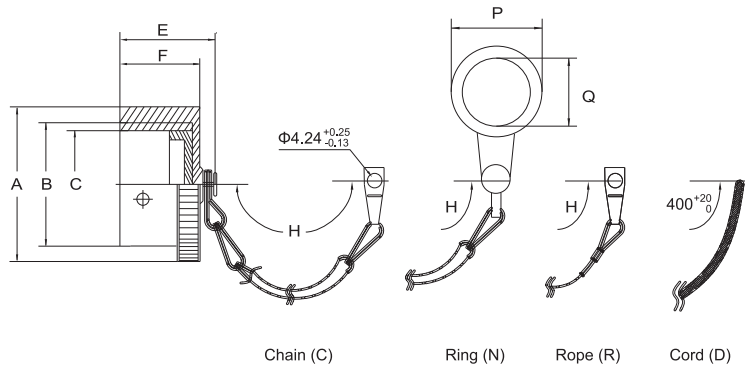
Cover Protecting Caps for Plug



Shell size	Order No.				øA max	øB +0.03 -0.13	øC +0.13 -0.15	øD +0.13 -0.03	E max	F max	G +0.25	øP max	øQ min	H +12.70 - 6.35
	Chain	Rope	Ring	Cord										
8	KD3180-8C	-8R	-8N	-8D	18.26	12.01	10.46	9.19	19.84	14.27	9.35	18.7	12.7	76.20
10	KD3180-10C	-10R	-10N	-10D	21.44	14.99	13.71	12.45	19.84	14.27	9.35	22.3	15.9	76.20
12	KD3180-12C	-12R	-12N	-12D	25.40	19.05	17.50	15.42	19.84	14.27	9.35	25.5	19.1	88.90
14	KD3180-14C	-14R	-14N	-14D	28.58	22.22	20.67	18.59	19.84	14.27	9.35	28.6	22.2	88.90
16	KD3180-16C	-16R	-16N	-16D	31.75	25.40	23.85	21.77	19.84	14.27	9.35	31.8	25.4	88.90
18	KD3180-18C	-18R	-18N	-18D	34.92	28.58	26.39	24.43	19.84	14.27	9.35	34.0	27.0	88.90
20	KD3180-20C	-20R	-20N	-20D	38.10	31.75	29.56	27.61	21.44	15.88	10.92	37.6	30.2	101.60
22	KD3180-22C	-22R	-22N	-22D	41.28	34.92	32.74	30.78	21.44	15.88	10.92	40.7	33.3	101.60
24	KD3180-24C	-24R	-24N	-24D	44.45	38.10	35.91	33.96	22.22	16.71	11.76	43.9	36.5	101.60

KD3181 / MS3181

Cover Protecting Caps for Receptacle



Shell size	Order No.				øA max	øB +0.13 -0.15	øC +0.13 -0.03	E max	F max	øP max	øQ min	H +12.70 - 6.35
	Chain	Rope	Ring	Cord								
8	KD3181-8C	-8R	-8N	-8D	18.64	14.63	12.22	21.44	14.27	20.7	14.7	76.20
10	KD3181-10C	-10R	-10N	-10D	21.82	17.70	15.29	21.44	14.27	25.4	17.9	76.20
12	KD3181-12C	-12R	-12N	-12D	25.40	22.12	19.33	21.44	14.27	30.2	22.7	88.90
14	KD3181-14C	-14R	-14N	-14D	28.58	25.27	22.48	21.44	14.27	36.6	25.9	88.90
16	KD3181-16C	-16R	-16N	-16D	31.75	28.45	25.65	21.44	14.27	39.7	29.0	88.90
18	KD3181-18C	-18R	-18N	-18D	34.92	31.62	28.85	21.44	14.27	42.9	32.2	88.90
20	KD3181-20C	-20R	-20N	-20D	38.10	34.80	32.00	21.44	14.27	46.1	35.4	101.60
22	KD3181-22C	-22R	-22N	-22D	41.28	37.97	35.18	21.44	14.27	49.3	38.6	101.60
24	KD3181-24C	-24R	-24N	-24D	44.45	41.25	38.35	22.22	15.29	52.4	41.7	101.60

MIL-DTL-26482 Series II

Contact Informations

Contacts

Contact Size	Wire Range		Military No.	
	AWG	mm ²	PIN	SOCKET
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

Insertion / Removal Tools

Contact Size	Military No.	Color Code
20	M81969/14-11	RED / WHITE
16	M81969/14-03	BLUE / WHITE
12	M81969/14-04	YELLOW / WHITE

Sealing Plugs

Contact Size	Military No.	Color Code
20	MS27488-20	RED
16	MS27488-16	BLUE
12	MS27488-12	YELLOW

Crimping Tools

Contact Size	Wire Range		Finished Wire Dia. Range	Crimping Tool No.	Positioner No.
	AWG	mm ²	mm ²		
20	20 - 24	0.2 - 0.6	1.02 - 2.11	M22520/1-01 or /2-01	M22520/1-02 or /2-02
16	16 - 20	0.5 - 1.4	1.34 - 2.62	M22520/1-01	M22520/1-02
12	12 - 14	2.0 - 3.0	2.46 - 4.01	M22520/1-01	M22520/1-02

Note. Example M22520 Series Crimping Tool for size 20, 16 or 12 contacts, and has a positioner that can be dialed for each contact size.

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