



訂購編號 ORDERING INFORMATION

BMS 3110 E 18 - 32 P X L

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① 系列名稱 Series **BMS** 26482 Series I
- ② 連接器類型 Connector Type
 - 3110** 牆式安裝插座 Wall Mounting Square Receptacle
 - 3111** 空中對接插座 Cable Connecting Receptacle
 - 3112** 盒式安裝插座 Box Mounting Square Receptacle
 - 3114** 螺母鎖緊插座 Jam Nut Receptacle
 - 3116** 直型插頭 Straight Plug
 - 3117** 穿牆式插座 Thru Bulkhead Receptacle
- ③ 保護等級 Service Class
 - R** – 無背殼密封膠芯 w/o Backshell, Grommet
 - B** – PC針插座 Receptacle w/ PC Tails (3112, 3114 only)
 - E** – 無電纜夾密封膠芯 Open Wire Seal w/ Grommet (3112 w/o Grommet)
 - F** – 帶電纜夾密封膠芯 Grommet Seal w/ Cable Clamp
 - H** – 氣密封裝插座 Hermetic w/o seal (3112, 3114 only)
 - J** – 電纜夾帶電纜護套 Cable Seal w/ Strain Relief
 - P** – 帶灌膠尾蓋 Assembly w/ Potting Boot
- ④ 殼體規格 Shell Size
- ⑤ 觸點排布 Contact Arrangements
- ⑥ 觸點類型 Contact Gender
 - P** = 公針 Pin
 - S** = 母針 Socket
- ⑦ 插芯定位 Alternate Insert Position
 - 空白 (標準) 或 **W/X/Y/Z** Blank (Standard) or **W/X/Y/Z**
- ⑧ 外殼表面處理 Shell Finish
 - Omit** – 軍綠鍍鎳 Olive Drab Cadmium Plating
 - A** – 黑色陽極氧化 Black Anodized
 - S** – 不銹鋼鈍化 Stainless Steel Passivated
 - L** – 鍍化學鎳 Electroless Nickel Plating
 - TC** – 鍍三價鉻 Trivalent Chromium Plating

服務等級 Service Rating

服務等級 Service Rating	使用電壓 Operating Voltage		測試電壓 Test Voltage	
	I	II	I	II
Sea Level	600V	1000V	1500V	2300V
22000 m	300V	450V	375V	500V

觸點規格 Contact Data

針 號 Contact Size	直 徑 Diameter (mm)	阻 抗 Resistance (mΩ)	電 流 Current (A)
#20	Φ1.00	≤5.0	7.5
#16	Φ1.60	≤2.5	13.0
#12	Φ2.40	≤1.5	23.0

特點 Features

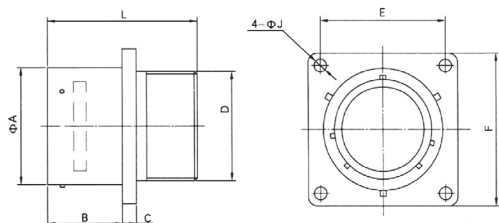
- 符合MIL-DTL-26482 系列I 設計規範，小型軍規連接器
- 3卡點耦合，5鍵位防誤插設計
- 膠芯採用氯丁橡膠(Neoprene)模鑄，具極佳的電氣和物理機械性能，適用惡劣環境
- 銅合金車銑鍍金焊接針
- Meeting MIL-DTL-26482, Series I requirements, miniature MS connectors
- 3 – Point bayonet coupling, 5 – Keyways polarization for positive mating
- Neoprene inserts provides superior electrical isolation, ideal for environmental sealing
- Gold-plated, copper alloy machined solder pins and close-end sockets

插芯觸點規格 Insert Contact Data

殼體規格 Shell Size	插芯編號 Insert No.	服務等級 Service Rating	芯數 Poles	觸點規格 Contact Size
8	8-2	I	2	2 #20
	8-4	I	4	4 #20
	8-33	I	3	3 #20
	8-98	I	3	3 #20
10	10-6	I	6	6 #20
	10-98	I	6	6 #20
12	12-3	II	3	3 #16
	12-4	I	4	4 #16
	12-8	I	8	8 #20
	12-10	I	10	10 #20
	12-14	I	14	14 #20
14	14-4	I	4	4 #12
	14-5	II	5	5 #16
	14-12	I	12	8 #20, 4 #16
	14-15	I	15	14 #20, 1 #16
	14-18	I	18	18 #20
	14-19	I	19	19 #20
	14-23	I	23	22 #20, 1 #16
16	16-8	II	8	8 #16
	16-23	I	23	22 #20, 1 #16
	16-26	I	26	26 #20
18	18-11	II	11	11 #16
	18-30	I	30	29 #20, 1 #16
	18-32	I	32	32 #20
20	20-16	II	16	16 #16
	20-24	I	24	24 #20
	20-27	I	27	27 #20
	20-39	I	39	37 #20, 2 #16
	20-41	I	41	41 #20
22	22-21	II	21	21 #16
	22-32	I	32	32 #20
	22-34	I	34	34 #20
	22-41	I	41	27 #20, 14 #16
	22-55	I	55	55 #20
24	24-31	I	31	31 #16
	24-61	I	61	61 #20

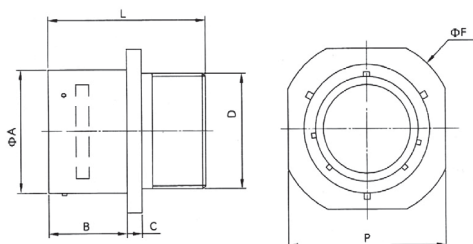
連接器型式 Connector Types

BMS 3110R 牆式安裝插座 Wall Mounting Square Receptacle, w/o Backshell



Shell Size	L (Max)	A	B (Max)	C (Max)	E	F (Max)	J	Thread D UNEF-2A
8	21.7	12.04	11.7	1.7	15.09	20.99	3.2	0.4375-28
10	21.7	15.00	11.7	1.7	18.26	24.19	3.2	0.5625-24
12	21.7	19.07	11.7	1.7	20.62	26.54	3.2	0.6875-24
14	21.7	22.25	11.7	1.7	23.00	28.89	3.2	0.8125-20
16	21.7	25.43	11.7	1.7	24.61	31.29	3.2	0.9375-20
18	21.7	28.60	11.7	1.7	26.97	33.69	3.2	1.0625-18
20	23.6	31.78	14.3	2.5	29.36	36.89	3.2	1.1875-18
22	23.6	34.95	14.3	2.5	31.75	39.99	3.2	1.3125-18
24	23.6	38.13	15.2	2.5	34.92	43.15	3.8	1.4375-18

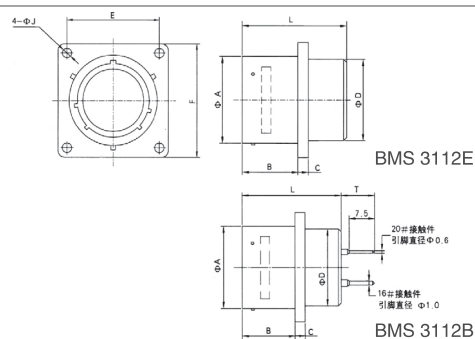
BMS 3111R 空中對接插座 Cable Connecting Receptacle, w/o Backshell



Shell Size	L (Max)	A	B (Max)	C (Max)	F (Max)	P	Thread D UNEF-2A
8	21.7	12.04	10.6	2.4	24.24	20.99	0.4375-28
10	21.7	15.00	10.6	2.4	27.44	24.19	0.5625-24
12	21.7	19.07	10.6	2.4	29.79	26.54	0.6875-24
14	21.7	22.25	10.6	2.4	32.10	28.89	0.8125-20
16	21.7	25.43	10.6	2.4	34.59	31.29	0.9375-20
18	21.7	28.60	10.6	2.4	36.94	33.69	1.0625-18
20	23.6	31.78	13.8	2.9	40.14	36.89	1.1875-18
22	23.6	34.95	13.8	2.9	43.24	40.00	1.3125-18
24	23.6	38.13	14.7	2.9	46.44	43.29	1.4375-18

BMS 3112E 盒式安裝插座 Box Mounting Square Receptacle, w/o Grommet

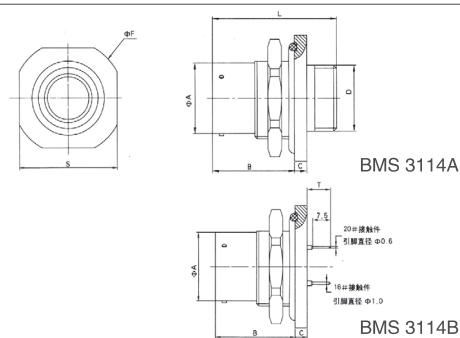
BMS 3112B 盒式安裝PC插座 Box Mounting Square Receptacle, PC-Tails, w/o Grommet



Shell Size	L (Max)	A	B (Max)	C (Max)	D (Max)	T (Max)	E (Max)	F (Max)	J (Max)
8	20.5	12.04	11.70	1.7	10.84	10.5	15.09	20.99	3.2
10	20.5	15.00	11.70	1.7	13.99	10.5	18.26	24.19	3.2
12	20.5	19.07	11.70	1.7	17.37	10.5	20.62	26.54	3.2
14	20.5	22.25	11.70	1.7	20.57	10.5	23.00	28.89	3.2
16	20.5	25.43	11.70	1.7	23.72	10.5	24.61	31.29	3.2
18	20.5	28.60	11.70	1.7	26.69	10.5	26.97	33.69	3.2
20	23.3	31.78	14.35	2.5	29.89	8.6	29.36	36.89	3.2
22	23.3	34.95	14.35	2.5	33.04	8.6	31.75	39.99	3.2
24	23.3	38.13	15.20	2.5	36.24	8.6	34.92	43.15	3.8

BMS 3114R 螺母鎖緊插座 Jam Nut Receptacle, w/o Backshell

BMS 3114B 螺母鎖緊PC插座 Jam Nut Receptacle, PC-Tails



Shell Size	L (Max)	A	B (Max)	C (Max)	T (Max)	F (Max)	S (Max)	Thread D UNEF-2A
8	27.3	12.04	17.90	3.0	9.6	26.94	23.80	0.4375-28
10	27.3	15.00	17.90	3.0	9.6	30.40	27.00	0.5625-24
12	27.3	19.07	17.90	3.0	9.6	34.94	31.74	0.6875-24
14	27.3	22.25	17.90	3.0	9.6	38.40	34.94	0.8125-20
16	27.3	25.43	17.90	3.0	9.6	41.50	38.10	0.9375-20
18	27.3	28.60	17.90	3.0	9.6	44.44	41.34	1.0625-18
20	32.8	31.78	20.40	3.3	8.4	49.40	46.04	1.1875-18
22	32.8	34.95	20.40	3.3	8.4	52.24	49.24	1.3125-18
24	32.8	38.13	20.90	3.3	7.9	55.54	52.74	1.4375-18

連接器型式 Connector Types

BMS 3116R 直型插頭 Straight Plug, w/o Backshell

Shell Size	8	10	12	14	16	18	20	22	24
L (Max)	21.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0	23.0
A	19.0	21.0	26.0	28.5	31.0	35.0	39.0	42.0	45.0
Thread D	0.4375-28	0.5625-24	0.6875-24	0.8125-20	0.9375-20	1.0625-18	1.1875-18	1.3125-18	1.4375-18
UNE-F-2A									

BMS 3116F 直型插頭 Straight Plug, Grommet Seal w/ Cable Clamp

Shell Size	8	10	12	14	16	18	20	22	24
L (Max)	48.0	48.0	48.0	48.0	51.0	51.0	52.0	52.0	52.0
A (Max)	19.0	21.0	26.0	28.5	31.0	35.0	39.0	42.0	45.0
D (Max)	19.9	21.5	24.0	27.8	29.4	35.3	35.3	41.1	42.4
G (Max)	3.5	5.0	8.2	10.0	13.0	16.0	16.0	19.3	20.6

BMS 3116P 直型插頭 Straight Plug, Assembly w/ Potting Boot

Shell Size	8	10	12	14	16	18	20	22	24
L (Max)	36.20	36.20	36.20	36.20	36.20	37.70	42.40	42.40	42.80
A (Max)	19.00	21.00	26.00	28.50	31.00	35.00	39.00	42.00	45.00
D (Max)	15.34	17.70	21.69	23.90	27.00	30.50	33.65	37.10	40.00
G (Max)	10.46	13.55	13.96	17.42	20.56	23.66	23.92	25.52	32.00

BMS 3116J 直型插頭 Straight Plug, Cable Seal w/ Strain Relief

Shell Size	8	10	12	14	16	18	20	22	24
L (Max)	57.6	57.6	61.2	66.0	74.7	80.5	91.6	95.6	101.2
A (Max)	19.0	21.0	26.0	28.5	31.0	35.0	39.0	42.0	45.0
D (Max)	19.9	21.5	24.0	27.8	29.4	35.3	35.3	41.1	42.4
G (Max)	5.4	6.4	9.8	11.7	15.1	16.4	17.3	18.2	20.0

BMS 3117R 穿牆式插座 Thru Bulkhead Receptacle

Shell Size	A	B	Φ C	L	L1	R
8	20.60	15.09	12.00	33.5	14.5	1.5
10	23.80	18.30	15.00	33.5	14.5	1.5
12	26.20	20.60	19.10	33.5	14.5	1.5
14	30.00	23.00	22.20	33.5	14.5	1.5
16	31.00	24.60	25.40	33.5	14.5	1.5
18	33.30	27.00	28.60	33.5	14.5	1.5
20	36.50	29.36	31.78	36.0	16.5	1.5
22	40.00	32.00	34.95	36.0	16.5	1.5
24	42.90	34.93	38.10	36.0	16.5	2.0

開孔尺寸 Panel Cutout Dimension

BMS 3114A/B Jam Nut Receptacle BMS 3112E/B Square Flange Receptacle

Shell Size	A	E	J	X (Min)	B	P	N
8	15.55	15.09	3.2	2.9	14.60	13.75	1.8
10	18.80	18.26	3.2	2.9	17.75	16.95	1.8
12	22.15	20.62	3.2	2.9	22.50	21.50	1.8
14	25.30	23.00	3.2	2.9	25.70	24.20	1.8
16	28.45	24.61	3.2	2.9	28.85	27.35	1.8
18	31.65	26.97	3.2	2.9	32.05	30.55	1.8
20	34.80	29.36	3.2	5.5	35.20	33.70	1.8
22	38.00	31.75	3.2	5.5	38.40	36.90	1.8
24	41.20	34.92	3.8	5.5	41.55	40.05	1.8

觸點排布 Contact Arrangements List

插芯定位 Alternate Insert Positioning

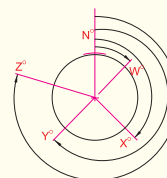
觸點圖示
Contact Icon

○ #20 ● #16 ◐ #12

圖示為從公插芯的前面看或從母插芯的背面看
Front view of pin insert or rear of socket insert illustrated

在應用過程中，為避免相同規格的連接器誤插，需要應用不同插芯旋向的連接器，如附圖所示：從下圖可以看出，外殼裏面插芯的分布旋轉了不同的角度。

In the application process, we provide different alternate insert positions for different mating combinations. The diagrams show the front insert view of the polarization



Insert No.	8-2	8-4	8-33	8-98	10-6	10-98	12-3	12-4
Contact Size	2 #20	4 #20	3 #20	3 #20	6 #20	6 #20	3 #16	4 #16
Service Rating	I	I	I	I	I	I	II	I

Insert No.	12-8	12-10	12-14	14-4	14-5	14-12	14-15
Contact Size	8 #20	10 #20	14 #20	4 #12	5 #16	8 #20, 4 #16	14 #20, 1 #16
Service Rating	I	I	I	I	II	I	I

Insert No.	14-18	14-19	16-8	16-23	16-26	18-11	18-30
Contact Size	18 #20	19 #20	8 #16	22 #20, 1 #16	26 #20	11 #16	29 #20, 1 #16
Service Rating	I	I	II	I	I	II	I

Insert No.	18-32	20-16	20-24	20-27	20-39	20-41
Contact Size	32 #20	16 #16	24 #20	27 #20	37 #20, 2 #16	41 #20
Service Rating	I	II	I	I	I	I

Insert No.	22-21	22-32	22-34	22-41	22-55
Contact Size	21 #16	32 #20	34 #20	27 #20, 14 #16	55 #20
Service Rating	II	I	I	I	I

Insert No.	24-31	24-61
Contact Size	31 #16	61 #20
Service Rating	I	I

Shell Size	Insert No.	Orientation Degree				
		N	W	X	Y	Z
8	08-02	0	60	210	-	-
	08-33	0	90	-	-	-
	08-04	0	45	-	-	-
10	10-06	0	90	-	-	-
	10-98	0	90	180	240	270
12	12-10	0	60	155	270	295
	12-08	0	90	112	203	292
	12-03	0	-	-	180	-
14	14-19	0	30	165	315	-
	14-18	0	15	90	180	270
	14-15	0	17	110	155	234
	14-12	0	43	90	-	-
	14-05	0	40	92	184	273
	14-04	0	45	150	-	-
16	16-26	0	60	-	275	338
	16-23	0	158	270	-	-
	16-08	0	54	152	180	331
18	18-32	0	85	138	222	265
	18-11	0	62	119	241	340
	18-30	0	180	193	285	350
20	20-41	0	45	126	225	-
	20-39	0	63	144	252	333
	20-16	0	238	318	333	347
	20-24	0	70	145	215	290
	20-27	0	72	144	216	288
22	22-55	0	30	142	226	314
	22-41	0	39	135	264	-
	22-21	0	16	135	175	349
	22-34	0	62	142	218	298
	22-32	0	72	145	215	288
24	24-61	0	90	180	270	324
	24-31	0	90	225	255	-