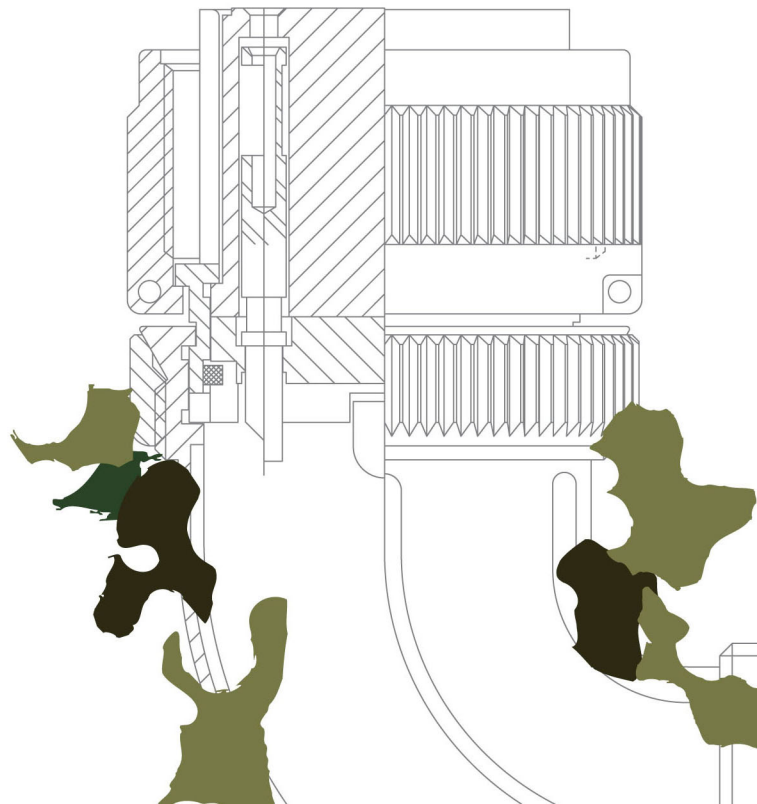


# 2014 MILITARY SPECIFICATION APEX CONNECTORS



Olive Drab  
Black Trivalent Chromate Over Zinc Plating (RoHS)  
Coating Olive Drab

100% Made In Taiwan



Apex connector

鋁鋼精密科技

APEX PRECISION TECHNOLOGY

Since 1978

# APEX Enterprise and Nature Coexistence

Coexistence of human and nature is the highest enterprise principle to APEX.  
All APEX's staff and operation must be based on the premise of preserving natural environment and protecting the earth.

- Manufacturing the low-pollution products
- Manufacturing without polluting the environment
- Recycle and reuse
- Contribution to protecting the earth
- Development of environmental protection

1.The product information in this catalog is for reference only.

Please request the engineering drawing for the most current and accurate design information.

2.In order to make improvements in the products,we reserve the right to make changes, updates and corrections to the information provided in this catalog at any time.

Subject to change without notice. Thank you for your understanding.



## APEX 企業與自然共存

APEX 應該視(人類和地球自然環境共存)為企業最高指導的原則，  
所有的APEX職員和企業的全部運作，都要以維護自然環境、保護地球為前提。

- 製造低污染的產品
- 製造處理不汙染環境
- 所有的廢棄物回收再利用
- 為保護地球環境，貢獻一份心力
- 持續環境保護發展的工作

1.本目錄記載數據僅供參考，詳細內容請參考式樣書或圖面。

2.本目錄記載內容為了改進產品如有變更，恕不另行通知敬請見諒。

## APEX企業は自然と共存します

APEXはずっと<人類と地球の共存する環境>を企業最高指導の原則とし、  
全てのAPEX社員及び企業の活動は全て地球環境の保護、維持を前提としております。

- 汚染の少ない製品作り
- 製造プロセスでは環境汚染を下げる
- すべての廃棄物は回収または再利用する
- 地球環境保護のため、気力を持って貢献する
- 環盡保護発展の仕事を持続する

1.本カタログ記載の数値につきましては、参考数値です。詳しい内容につきましては、仕様書、図面を参考して下さい。

2.本カタログ記載内容は、製品向上のため予告なく変更する事がありますのでご了承下さい。



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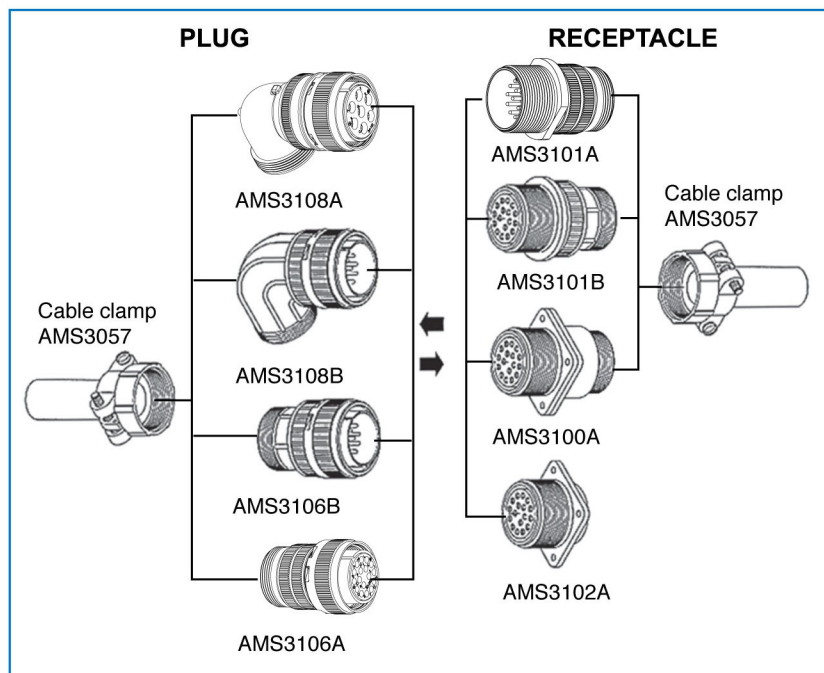
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	WPM Series WPM-152-RM-R WPM-152-PF-R WPM-152-LPF-R	30
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AMS-A/B Class connector is an assembly of socket and plug, and able to connect the panel with cable. The cable with cable fixed merely by turning the coupling nut of the plug. The electric current can be conducted according to the insertion internally. Connector is an assembly of pin and socket. Thus, either socket or plug is able to be inserted.



### Receptacle: AMS3102A / AMS3102ARB

To be installed at the body of the machine or the panel, enable it to combine with the plug for using.

### Interruptible Plug: AMS3101B / AMS3101A

To be attached at the cable, connect the cable with the cable so as to combine with the plug.

### Straight Plug: AMS3106B / AMS3106A

To be attached at the cable, combine with the socket and the interruptible plug. The outlet of the cable moves toward the rear side of the straight plug.

### Angle Plug: AMS3108B / AMS3108A

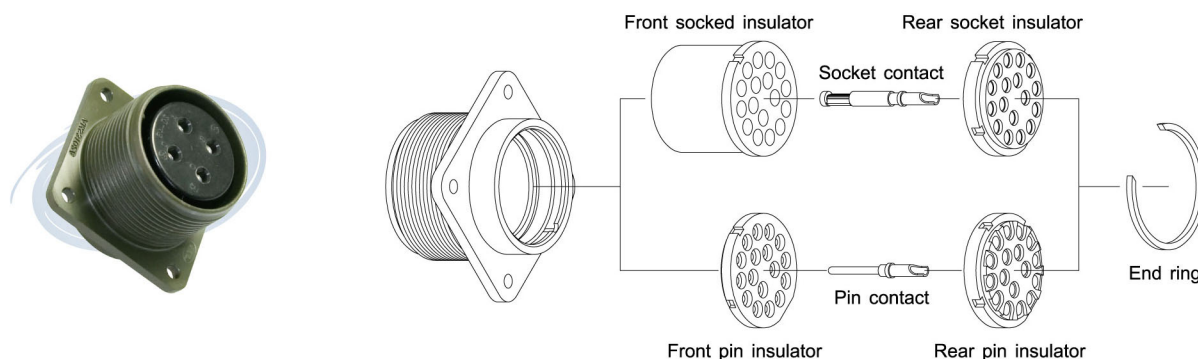
The outlet of the cable constitutes vertical direction in contrast with the combining axis.

### Cable Plug: AMS3057

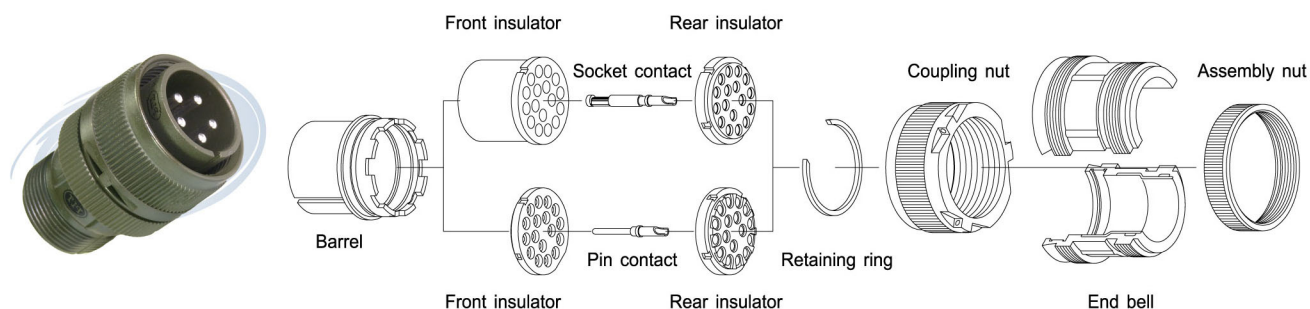
A connecting wire attaches on the plug and interruptible plug which is an accessory used for tightening the cable.

## Disassembly Chart

### AMS3102A



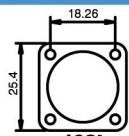


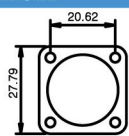

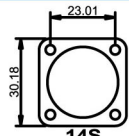




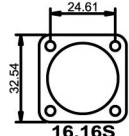


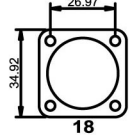



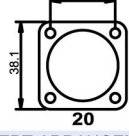







### AMS3106B





# INSERT ARRANGEMENTS

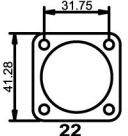
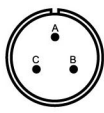
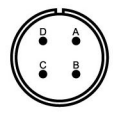
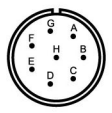

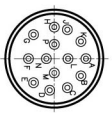
(front face of pin inserts illustrated)

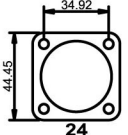
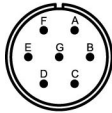
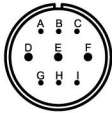
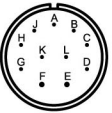
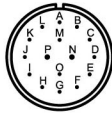

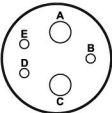
NO. OF CONTACTS SHELL SIZE		2 CONTACT		3 CONTACT											
															
10SL		10SL-4		10SL-3											
INSERT ARRANGEMENT		#16 x 2 Pin		#16 x 3 Pin											
NUMBER OF CONTACTS		INST		INST											
SERVICE RATING(ps.1)															
NO. OF CONTACTS SHELL SIZE		2 CONTACT													
															
12.12S		12S-3													
INSERT ARRANGEMENT		#16 x 2 Pin													
NUMBER OF CONTACTS		A													
SERVICE RATING(ps.1)															
NO. OF CONTACTS SHELL SIZE		3 CONTACT		4 CONTACT		5 CONTACT		6 CONTACT							
															
14S		14S-7		14S-2		14S-5		14S-6							
INSERT ARRANGEMENT		#16 x 3 Pin		#16 x 4 Pin		#16 x 5 Pin		#16 x 6 Pin							
NUMBER OF CONTACTS		A		INST		INST		INST							
SERVICE RATING(ps.1)															
NO. OF CONTACTS SHELL SIZE		3 CONTACT		7 CONTACT											
															
16.16S		16-10		16S-1											
INSERT ARRANGEMENT		#12 x 3 Pin		#16 x 7 Pin											
NUMBER OF CONTACTS		A		A											
SERVICE RATING(ps.1)															
NO. OF CONTACTS SHELL SIZE		4 CONTACT		5 CONTACT		10 CONTACT									
															
18		18-10		18-11		18-1									
INSERT ARRANGEMENT		#12 x 4 Pin		#12 x 5 Pin		#16 x 10 Pin									
NUMBER OF CONTACTS		A		A		A(B.C.F.G) INST(Other)									
SERVICE RATING(ps.1)															
NO. OF CONTACTS SHELL SIZE		4 CONTACT		5 CONTACT		7 CONTACT		9 CONTACT		14 CONTACT		17 CONTACT			
															
20		20-4		20-17		20-15		20-16		20-18		20-27		20-29	
INSERT ARRANGEMENT		#12 x 4 Pin		#12x5Pin(A-E) #16x1Pin(F)		#12 x 7 Pin		#16 x 7 Pin(A-G) #12 x 2 Pin(H,I)		#12 x 3 Pin(B,I,F) #16 x 6 Pin(A,H,G,C,D,E)		#16 x 14 Pin		#16 x 17 Pin	
NUMBER OF CONTACTS		D		D		A		A		A		A		A	
SERVICE RATING(ps.1)															

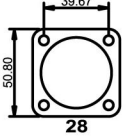
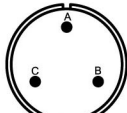
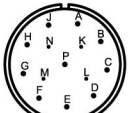
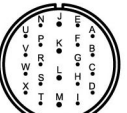


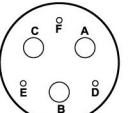
ps.1 Service rating , please refer to page-contact sizes

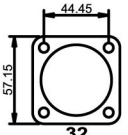
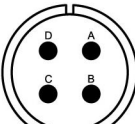


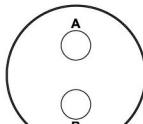
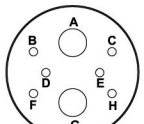
# INSERT ARRANGEMENTS

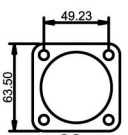
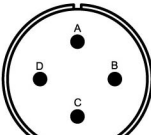

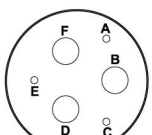
(front face of pin inserts illustrated)

NO. OF CONTACTS SHELL SIZE	3 CONTACT	4 CONTACT	8 CONTACT	19 CONTACT	14 CONTACT
 22					
INSERT ARRANGEMENT	22-2	22-22	22-23	22-14	22-19
NUMBER OF CONTACTS	#8 x 3 Pin	#8 x 4 Pin	#12 x 8 Pin	#16 x 19 Pin	#16 x 14 Pin
SERVICE RATING(ps.1)	D	D	D(H).A(Other)	A	A

NO. OF CONTACTS SHELL SIZE	7 CONTACT	9 CONTACT	11 CONTACT	16 CONTACT	24 CONTACT	5 CONTACT
 24						
INSERT ARRANGEMENT	24-10	24-11	24-20	24-7	24-28	24-12
NUMBER OF CONTACTS	#8 x 7 Pin	#8 x 3 Pin(D.E.F) #12 x 6 Pin(Other)	#16 x 9 Pin(A-D.G-L) #12 x 2 Pin(E.F)	#16 x 14 Pin(A-M.O) #12 x 2 Pin(P.N)	#16 x 24 Pin	#4 x 2 Pin(A-C) #12 x 3 Pin(B.D.E)
SERVICE RATING(ps.1)	A	A	D	A	INST	A

NO. OF CONTACTS SHELL SIZE	3 CONTACT	14 CONTACT	22 CONTACT	26 CONTACT	37 CONTACT	6 CONTACT
 28						
INSERT ARRANGEMENT	28-6	28-20	28-11	28-12	28-21	28-22
NUMBER OF CONTACTS	#4 x 3 Pin	#16 x 4 Pin(K.L.M.N) #12 x 10 Pin(A-J.P)	#16 x 18 Pin(A-I.N-X) #12 x 4 Pin(J.K.L.M)	#16 x 26 Pin	#16 x 37 Pin	#4 x 3 Pin(A-C) #16 x 3 Pin(D-F)
SERVICE RATING(ps.1)	D	A	A	A	A	D

NO. OF CONTACTS SHELL SIZE	4 CONTACT	35 CONTACT	54 CONTACT	2 CONTACT	8 CONTACT
 32					
INSERT ARRANGEMENT	32-17	32-7	32A10 (32-22)	32-5	32-15
NUMBER OF CONTACTS	#4 x 4 Pin	#16 x 28 Pin(A-N.W-Z.a-K) #12 x 7 Pin(O-V)	#16 x 54 Pin	#0 x 2 Pin	#0 x 2 Pin(A.G) #12 x 6 Pin(B-F.H)
SERVICE RATING(ps.1)	D	INST(A.B.h.j)A(Other)	A	D	D

NO. OF CONTACTS SHELL SIZE	4 CONTACT	48 CONTACT	6 CONTACT		
 36					
INSERT ARRANGEMENT	36-5	36-10	36-3		
NUMBER OF CONTACTS	#0 x 4 Pin	#16 x 48 Pin	#0 x 2 Pin(B.D.F) #12 x 3 Pin(A.C.E)		
SERVICE RATING(ps.1)	A	A	D		

ps.1 Service rating , please refer to page-contact sizes

## ORDERING INFORMATION 訂購資訊

AMS / WPS	3106B / 3106A	24-10	S		Y	CD	G	R
SERIES		INSERT ARRANGEMENT 接線方式組合 See page 2 to 3	CONTACT STYLE P: Pin 導針 S: Socket 導梢		FINISH 表面處理 CD: Coating drab 軍綠色電著 CB: Coating black 黑色電著 N: Nickel plated 鍍鎳 E: Electro-less nickel 無電解鍍			R: RoHS
SHELL STYLE 外殼型式 3101B: Cable mounting receptacle, split shell 電纜中繼式, 分離式外殼 3106B: Straight plug, split shell 180°直接頭, 分離式外殼 3108B: Angle plug, split shell 90°彎接頭, 分離式外殼 3100A: Wall mounting receptacle 面板固定端座	SHELL STYLE 外殼型式 3101A: Cable Mounting receptacle, solid shell 電纜中繼式, 單件式外殼 3102A: Box Mounting receptacle, solid shell 箱體固定端座, 單件式外殼 3106A: Straight plug, solid shell 180°直接頭, 單件式外殼 3108A: Angle plug, solid shell 90°彎接頭, 單件式外殼			ALTERNATE INSERT POSITION 可變換的接觸角位 OMIT: Standard position 正常角位 W.X.Y.Z: Alternate position 可變角位			REMARKS 備註: STANDARD 標準 Silver plated contacts 鍍銀 G: Gold plated contacts 鍍金	

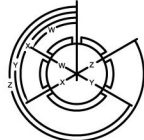
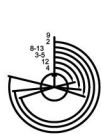
## ORDERING INFORMATION 訂購資訊

In contrast with the standard inserted position. After the guide key of its shell is formed into certain angle, the position change shall be indicated by the marks W,X,Y,Z. According to the layout of connector, there is difference on the changeable angles. Please refer to the instructions of the added table. Furthermore, what the figure has shown is observed from the joining part of the pins.

本公司此系列產品出廠前已有標準的角位排列, 如客戶欲訂購特殊的不同角位, 請參考以下的說明。



Standard Position



Remark: It is only limited to connector layout 32-2010-10

No. of Contacts	Insert No.	Revolving Angle				
		W	X	Y	Z	
2	12S-3	70	145	215	290	
3	14S-7	90	180	270	-	
	16-10	90	180	270	-	
	22-2	70	145	215	290	
	28-6	70	145	215	290	
4	14S-2	-	120	240	-	
	20-4	45	110	250	-	
	22-22	-	110	250	-	
	36-5	-	120	240	-	
5	18-11	-	170	265	-	
7	16S-1	80	-	-	280	
	20-15	80	-	-	280	
	24-10	80	-	-	280	
8	22-23	13	-	250	-	
9	20-16	80	110	250	280	
	24-11	35	110	250	325	
10	18-1	70	145	215	290	
11	24-20	80	110	250	280	
14	20-27	35	110	250	325	
	28-20	80	110	250	280	
16	24-7	80	110	250	280	
17	20-29	80	-	-	280	
19	22-14	80	-	-	280	
22	28-11	80	110	250	280	
24	24-28	80	110	250	280	
26	28-12	90	180	270	-	
37	28-21	80	110	250	280	
48	36-10	80	125	235	280	
100	48-5	65	125	225	310	
The connector's layout 32-7 and 36-10 are same in the revolving angle. Remark: It is under the condition of 32A10.						
Mark	2	3 or 5	4	8 or 13	9	12
Revolving Angle	260	110	80	250	280	100

## SERVICE RATING

Service Rating	Operating Voltage(V)	
	DC.V	AC.V(r.m.s.)
INST	250	200
A	700	500
D	1250	900
E	1750	1250
B	2450	1750
C	4200	3000

## CONTACT CURRENT RATING

Contact Size	Test Current (Amperes)
#16	13
#12	23
#8	46
#4	80
#0	150

## WIRE SIZE

Contact		
Size	Solder Hold	Wire Size A.W.G
#16	1.85 Ø	#16~#22
#12	2.95 Ø	#12~#14
#8	5.31 Ø	#8~#10
#4	8.45 Ø	#4~#6
#0	11.91 Ø	#0~#2



## ORDERING INFORMATION

No. of Contacts	Contact Size	Rated Current / 定格電流			
Rated Current 定格電流	#4	80A under			
	#8	46A under			
	#12	23A under			
	#16	13A under			
	#20	5A under			
Dielectric 耐電壓	AC2000Vr.m.s. (1 minute) But between #20 contact AC1000Vr.m.s. ( 1 minute)				
Impedance 絕緣阻抗	1000MΩ				
	Contact		Cabel 適用電線	Test Correct 測試電流	Current 接觸阻抗
		AWG No.	Cable Section area 芯線斷面積		
Current 接觸阻抗	#4	#4	22mm <sup>2</sup>	80A	1mΩ under
		#6	13mm <sup>2</sup>	60A	1mΩ under
	#8	#8	8mm <sup>2</sup>	46A	1mΩ under
		-	10mm <sup>2</sup>	57A	2mΩ under
		#8	8mm <sup>2</sup>	57A	2mΩ under
		#10	5.5mm <sup>2</sup>	46A	2mΩ under
	#12	#12	3.5mm <sup>2</sup>	33A	2mΩ under
		#12	3.5mm <sup>2</sup>	23A	2mΩ under
		#14	2mm <sup>2</sup>	17A	3mΩ under
	#16	#16	1.25mm <sup>2</sup>	13A	4mΩ under
		#16	1.25mm <sup>2</sup>	13A	4mΩ under
		#18	0.8mm <sup>2</sup>	10A	7mΩ under
		#20	0.5mm <sup>2</sup>	7.5A	8mΩ under
		#20	0.3mm <sup>2</sup>	5A	15mΩ under
	#20	#18	0.8mm <sup>2</sup>	5A	7mΩ under
		#20	0.5mm <sup>2</sup>	5A	8mΩ under
		#22	0.3mm <sup>2</sup>	5A	15mΩ under
		#24	0.2mm <sup>2</sup>	3A	15mΩ under
		#26	0.13mm <sup>2</sup>	2A	27mΩ under
	Protect Circuit Connection 保護迴路 接續部	-	-	0.1A	100mΩ under
Temperature Range 使用 溫度範圍	-55°C ~ +125°C				

## Receptacle

Shell 本體	Al-Alloy / 鋁合金
Front Insulator 絕緣蓋	Water Proof / Silicon Rubber / 防水矽膠 Non Water Proof / Polyester 非防水合成樹脂
Rear Insulator 絕緣座	Polyester / 合成樹脂
Contact 導針	Copper / M-Ag / 銅合金 / 鍍銀
Retaining Ring 扣環	Copper / 銅合金
Earth Pin 導稍總成	Copper / 銅合金

## Plug

Shell 本體	Al-Alloy / 鋁合金
Insulator 絕緣體	Polyester / 合成樹脂
Gasket 橡膠墊	Rubber / 橡膠
Contact 導針	Copper / M-Ag / 銅合金 / 鍍銀
Sleeve 套管	Polyester / 合成樹脂
Retaining Ring 扣環	Copper / 銅合金
Screw 螺絲	Steel / 鋼
O-Ring O形環	Rubber / 橡膠
Screw Steel 金屬螺絲	Steel / 鋼

## RECEPTACLE

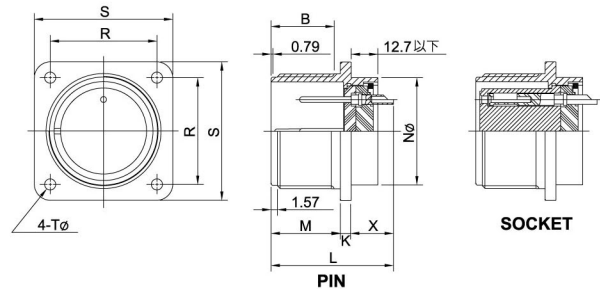
## AMS3102A / AMS3102ARB



SOCKET



PIN PLUG



Shell size	Coupling Threads	Length of the effective portion of the thread over B	Thickness of the assembly rim under K	Length L	Length of assembly rim $M + 0.79$ $- 0$	Outer radius of the terminal $N + 0$ $- 4.78$	Position of the holes reserved for assembly $R \pm 0.13$	Length of the protruded sides $S \pm 0.79$	Hole diameter of the assembly holes $T + 0.25$ $- 0.13$
10SL	5/8-24UNEF-2A	9.5	2.1	23.4	14.6	15.8	18.26	25.4	3.1
12S	3/4-20UNEF-2A	9.52	2.4	24.3	14.27	19.86	20.62	27.79	3.05
14S	7/8-20UNEF-2A	9.52	2.4	24.3	14.27	23.01	23.01	30.18	3.05
16S	1-20UNEF-2A	9.52	2.4	24.3	14.27	26.21	24.61	32.54	3.05
16	1-20UNEF-2A	15.88	2.4	29.1	19.05	26.21	24.61	32.54	3.05
18	1-1/8-18UNEF-2A	15.88	3.0	28.6	19.05	29.36	26.97	34.92	3.05
20	1-1/4-18UNEF-2A	15.88	3.0	29.4	19.05	32.56	29.36	38.10	3.05
22	1-3/8-18UNEF-2A	15.88	3.0	29.4	19.05	35.71	31.75	41.28	3.05
24	1-1/2-18UNEF-2A	15.88	3.0	33.4	20.62	38.91	34.92	44.45	3.73
28	1-3/4-18UNS-2A	15.88	3.0	33.4	20.62	45.26	39.67	50.80	3.73
32	2-18UNS-2A	15.88	4.3	33.4	22.22	51.26	44.45	57.15	4.39
36	2-1/4-16UN-2A	15.88	4.3	33.4	22.22	57.96	49.23	63.50	4.39
48	3-16UN-2A	15.88	4.3	33.2	22.22	77.90	66.68	82.55	4.39

PS.: Shell size and insert arrangement, please refer to page 2-3.

## STRAIGHT PLUG

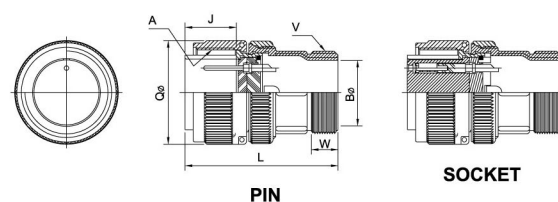
## AMS3106B



SOCKET



PIN PLUG



Shell size (ps.1)	Coupling Threads A	Cable end $B \pm 0.3$	Length of connector $J \pm 0.3$	Full length	Outer radius $Q \pm 0.8$	Rear Threads V	Length of thread over W
10SL	5/8-24UNEF-2B	7.0	9.6	44.6	22.2	5/8-24UNEF-2A	10
12S	3/4-20UNEF-2B	9.6	13.5	42.8	25.4	5/8-24UNEF-2A	9.5
14S	7/8-20UNEF-2B	12.5	13.5	42.8	28.6	3/4-20UNEF-2A	9.5
16S	1-20UNEF-2B	15.6	13.5	42.8	31.8	7/8-20UNEF-2A	9.5
16	1-20UNEF-2B	15.6	18.3	52.4	31.8	7/8-20UNEF-2A	9.5
18	1-1/8-18UNEF-2B	20.2	18.3	52.4	34.1	1-20UNEF-2A	9.5
20	1-1/4-18UNEF-2B	23.0	18.3	55.6	37.3	1-3/16-18UNEF-2A	9.5
22	1-3/8-18UNEF-2B	23.2	18.3	55.6	40.5	1-3/16-18UNEF-2A	9.5
24	1-1/2-18UNEF-2B	29.5	18.3	58.7	43.7	1-7/16-18UNEF-2A	9.5
28	1-3/4-18UNS-2B	29.8	18.3	58.7	50.0	1-7/16-18UNEF-2A	9.5
32	2-18UNS-2B	37.5	18.3	61.9	56.4	1-3/4-18UNEF-2A	11.1
36	2-1/4-16UN-2B	43.8	18.3	61.9	62.7	2-18UNS-2A	12.7
48	3-16UN-2B	69.1	18.3	65.1	81.8	3-16UN-2A	15.9

PS.: Shell size and insert arrangement, please refer to page 2-3.

## ANGLE PLUG

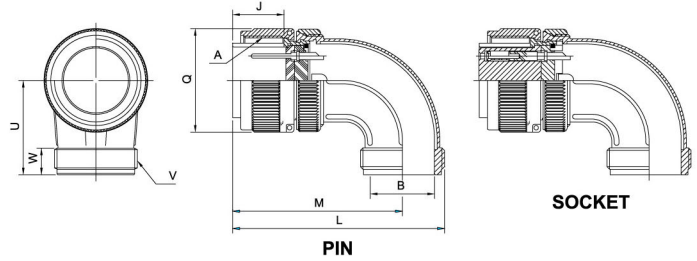
## AMS3108B



SOCKET



PIN PLUG



SOCKET

PIN

Shell size (ps.2)	Coupling Threads A	Cable end B $\pm 0.3$	Length of connector J $\pm 0.3$	Full length L	M $\pm 0.8$	Outer radius Q $\pm 0.8$	U $\pm 0.8$	Rear Threads V	Length of thread over W
10SL	5/8-24UNEF-2B	7	9.6	44.6	37.6	22.2	24	5/8-24UNEF-2A	10.5
12S	3/4-20UNEF-2B	9.6	13.5	50.8	41.7	25.4	25.4	5/8-24UNEF-2A	9.5
14S	7/8-20UNEF-2B	12.5	13.5	54.0	43.3	28.6	27.0	3/4-20UNEF-2A	9.5
16S	1-20UNEF-2B	15.6	13.5	60.3	48.0	31.8	28.6	7/8-20UNEF-2A	9.5
16	1-20UNEF-2B	15.6	18.3	65.1	52.8	31.8	28.6	7/8-20UNEF-2A	9.5
18	1-1/8-18UNEF-2B	18.6	18.3	68.3	54.4	34.1	32.1	1-20UNEF-2A	9.5
20	1-1/4-18UNEF-2B	23.0	18.3	77.0	60.7	37.3	33.7	1-3/16-18UNEF-2A	9.5
22	1-3/8-18UNEF-2B	23.2	18.3	77.0	60.7	40.5	33.3	1-3/16-18UNEF-2A	9.5
24	1-1/2-18UNEF-2B	29.6	18.3	86.5	67.1	43.7	34.9	1-7/16-18UNEF-2A	9.5
28	1-3/4-18UNS-2B	29.8	18.3	86.5	67.1	50.0	38.5	1-7/16-18UNEF-2A	9.5
32	2-18UNS-2B	35.9	18.3	95.2	71.8	56.4	46.4	1-3/4-18UNEF-2A	11.1
36	2-1/4-16UN-2B	42.7	18.3	100.0	73.4	62.7	51.2	2-18UNS-2A	12.7
48	3-16UN-2B	69.1	18.3	125.4	86.5	81.8	59.1	3-16UN-2A	15.9

PS. : Shell size and insert arrangement, please refer to page 2-3.

## CABLE CONNECTING RECEPTACLE

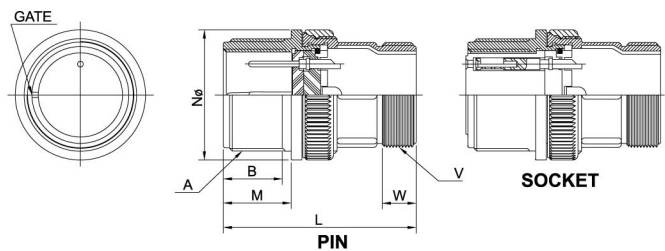
## AMS3101B



SOCKET



PIN PLUG



SOCKET

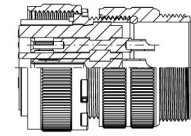
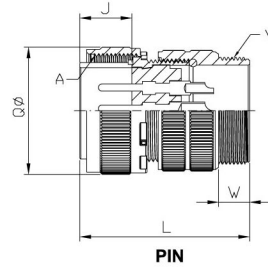
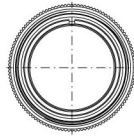
PIN

Shell size	Coupling Threads A	Length of the effective portion of the thread over B	Length L	The length to the assembly rim $+0.4$ $M - 0$	Outer radius under N	Rear Threads V	Length of thread over W
10SL	5/8-24UNEF	9.5	38.89	14.27	24.61	5/8-24UNEF	9.5
12S	3/4-20UNEF-2A	9.5	42.88	14.3	26.97	5/8-24UNEF-2A	9.5
14S	7/8-20UNEF-2A	9.5	42.88	14.3	29.36	3/4-20UNEF-2A	9.5
16S	1-20UNEF-2A	9.5	42.88	14.3	31.75	7/8-20UNEF-2A	9.5
16	1-20UNEF-2A	15.9	52.37	19.0	31.75	7/8-20UNEF-2A	9.5
18	1-1/8-18UNEF-2A	15.9	52.37	19.0	34.14	1-20UNEF-2A	9.5
20	1-1/4-18UNEF-2A	15.9	55.58	19.0	37.31	1-3/16-18UNEF-2A	9.5
22	1-3/8-18UNEF-2A	15.9	55.58	19.0	40.49	1-3/16-18UNEF-2A	9.5
24	1-1/2-18UNEF-2A	15.9	58.72	19.0	43.66	1-7/16-18UNEF-2A	9.5
28	1-3/4-18UNS-2A	15.9	58.72	19.0	50.01	1-7/16-18UNEF-2A	9.5
32	2-18UNS-2A	15.9	61.93	19.0	56.36	1-3/4-18UNEF-2A	11.1
36	2-1/4-16UN-2A	15.9	61.93	19.0	62.71	2-18UNS-2A	12.7
48	3-16UN-2A	15.9	65.07	15.9	81.76	3-16UN-2A	15.9

PS. : Shell size and insert arrangement, please refer to page 2-3.



## AMS3106A

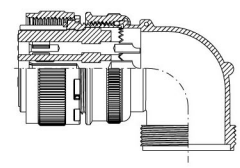
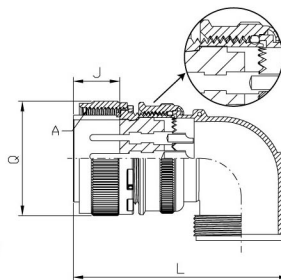
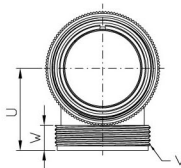


SOCKET

PIN

Shell Size	Coupling Threads A	Full Length L	The length to the assembly rim J ± 0.3	Outer radius Q ± 0.8	Rear Threads V	Length of thread over W
10SL	5/8-24UNEF	38.89	13.49	24.61	5/8-24UNEF	10
12s	3/4-20UNEF	42.88	13.49	26.97	5/8-24UNEF	9.5
12	3/4-20UNEF	52.37	18.26	26.97	5/8-24UNEF	9.5
14s	7/8-20UNEF	42.88	13.49	29.36	3/4-20UNEF	9.5
14	7/8-20UNEF	52.37	18.26	29.36	3/4-20UNEF	9.5
16s	1-20UNEF	42.88	13.49	31.75	7/8-20UNEF	9.5
16	1-20UNEF	52.37	18.26	31.75	7/8-20UNEF	9.5
18	1 1/8-18UNEF	52.37	18.26	34.14	1-20UNEF	9.5
20	1 1/4-18UNEF	55.58	18.26	37.31	1 3/16-18UNEF	9.5
22	1 3/8-18UNEF	55.58	18.26	40.49	1 3/16-18UNEF	9.5
24	1 1/2-18UNEF	58.72	18.26	43.66	1 7/16-18UNEF	9.4
28	1 3/4-18UNEF	58.72	18.26	50.01	1 7/16-18UNEF	9.4
32	2-18UNEF	61.93	18.26	56.36	1 3/4-18UNEF	11.1
36	2 1/4-16UNEF	61.93	18.26	62.71	2-18UNEF	12.7
40	2 1/2-16UNEF	61.93	18.26	69.06	2 1/4-18UNEF	15.9

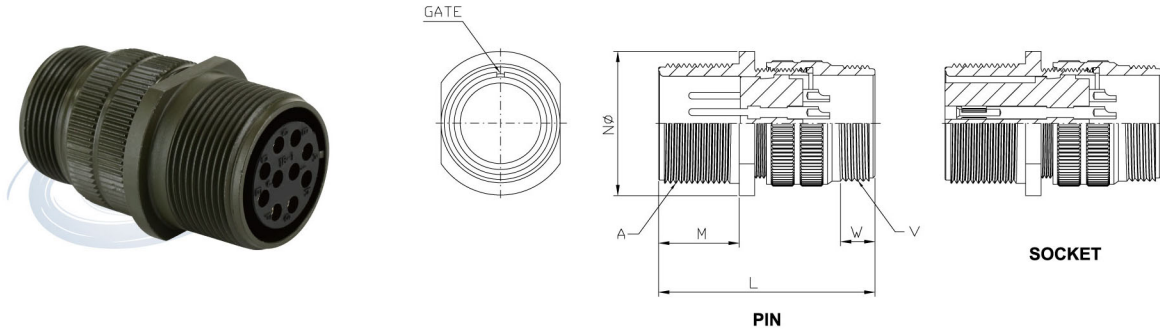
## AMS3108A



SOCKET

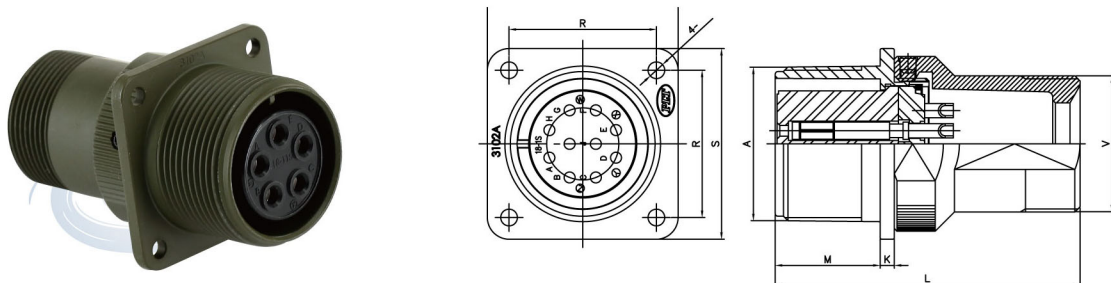
PIN

Shell Size	Coupling Threads A	Full Length L	Length of connector J ± 0.3	Outer radius Q ± 0.8	U ± 0.8	Rear Threads V	Length of thread over W
10SL	5/8-24UNEF	13.49	46.02	24.61	25.40	5/8-24UNEF	10.5
12s	3/4-20UNEF	13.49	50.80	26.97	26.97	5/8-24UNEF	9.5
12	3/4-20UNEF	18.26	57.15	26.97	26.97	5/8-24UNEF	9.5
14s	7/8-20UNEF	13.49	53.98	29.36	28.58	3/4-20UNEF	9.5
14	7/8-20UNEF	18.26	58.72	29.36	28.58	3/4-20UNEF	9.5
16s	1-20UNEF	13.49	60.33	31.75	30.18	7/8-20UNEF	9.5
16	1-20UNEF	18.26	65.07	31.75	30.18	7/8-20UNEF	9.5
18	1 1/8-18UNEF	18.26	68.28	34.14	33.32	1-20UNEF	9.5
20	1 1/4-18UNEF	18.26	76.99	37.31	34.93	1 3/16-18UNEF	9.5
22	1 3/8-18UNEF	18.26	76.99	40.49	34.93	1 3/16-18UNEF	9.5
24	1 1/2-18UNEF	18.26	86.51	43.66	39.67	1 7/16-18UNEF	9.5
28	1 3/4-18UNEF	18.26	86.51	50.01	39.67	1 7/16-18UNEF	9.5
32	2-18UNEF	18.26	95.25	56.36	47.63	1 3/4-18UNEF	11.1
36	2 1/4-16UNEF	18.26	100.03	62.71	52.37	2-18UNEF	12.7

**AMS3101A**

Shell Size	Coupling Threads A	Length L	The length to the assembly rim M + 0.4	Outer radius under N	Rear Threads V	Length of thread over W
10SL	5/8-24UNEF	38.89	14.27	24.61	5/8-24UNEF	9.5
12s	3/4-20UNEF	42.88	14.27	26.97	5/8-24UNEF	9.5
12	3/4-20UNEF	52.37	19.05	26.97	5/8-24UNEF	9.5
14s	7/8-20UNEF	42.88	14.27	29.36	3/4-20UNEF	9.5
14	7/8-20UNEF	52.37	19.05	29.36	3/4-20UNEF	9.5
16s	1-20UNEF	42.88	14.27	31.75	7/8-20UNEF	9.5
16	1-20UNEF	52.37	19.05	31.75	7/8-20UNEF	9.5
18	1 1/8-18UNEF	52.37	19.05	34.14	1-20UNEF	9.5
20	1 1/4-18UNEF	55.58	19.05	37.31	1 3/16-18UNEF	9.5
22	1 3/8-18UNEF	55.58	19.05	40.49	1 3/16-18UNEF	9.5
24	1 1/2-18UNEF	58.72	20.62	43.66	1 7/16-18UNEF	9.4
28	1 3/4-18UNEF	58.72	20.62	50.01	1 7/16-18UNEF	9.4
32	2-18UNEF	61.93	22.23	56.36	1 3/4-18UNEF	11.1
36	2 1/4-16UNEF	61.93	22.23	62.71	2-18UNEF	12.7
40	2 1/2-16UNEF	61.93	22.23	69.06	2 1/4-18UNEF	15.9

## AMS / WPS Series

**AMS / WPS 3100A**

Shell size	Coupling Threads A	Length L	Thickness of the assembly rim under K	Length of assembly rim M + 0.79 - 0	Rear Threads V	Position of the holes reserved for assembly R ± 0.13	Length of the protruded sides S ± 0.79	Hole d of assemb T <sup>+</sup> T <sup>-</sup>
<b>10SL</b>	5/8-24UNEF-2A	45	2.1	14.6	5/8-24UNEF-2A	18.26	25.4	3.1
<b>14S</b>	7/8-20UNEF-2A	44.2	2.1	14.27	7/8-20UNEF-2A	23.01	30.18	3.05
<b>16S</b>	1-20UNEF-2A	41.1	2.1	14.27	1-20UNEF-2A	24.61	32.5	3.1
<b>18</b>	1-1/8-18UNEF-2A	55.8	2.6	28.6	1-1/8-18UNEF-2A	26.97	34.92	3.05
<b>20</b>	1-1/4-18UNEF-2A	56.5	2.7	29.4	1-1/4-18UNEF-2A	29.36	38.10	3.05
<b>22</b>	1-3/8-18UNEF-2A	66.4	2.7	29.4	1-3/8-18UNEF-2A	31.75	41.28	3.05
<b>24</b>	1-1/2-18UNEF-2A	58.5	2.7	33.4	1-1/2-18UNEF-2A	34.9	44.4	3.75
<b>28</b>	1-3/4-18UNS-2A	59.1	2.7	33.4	1-3/4-18UNS-2A	39.7	50.8	3.75

PS. : Shell size and insert arrangement, please refer to page 2-3.

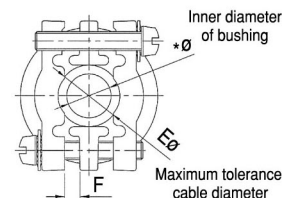
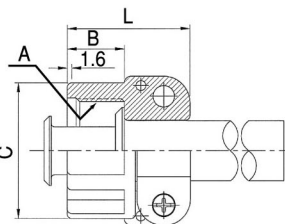
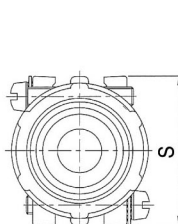
## CABLE CLAMP

## AMS3057-\*A

**AMS3057-\*A** type cable clamp is an accessory used for tightening the cables.

It is to be assembled with plug (3101B, 3106B, 3108B) and junction shell.

Clamping shall be based upon the clamp saddle from two sides. It is attached with clipper and it is able to fix it evenly and accurately.



Item No.	Shell size (ps.1)	Bushing item AMS3420	Coupling Threads A	B	Max. Tolerable cable Cø ± 0.41	Cable Clamp E	F	Length L ± 0.8	S + 0.8	Content ø
AMS3057-4A	12S	-4	5/8-24UNEF-2B	10.3	20.6	7.9	1.6	20.6	22.2	6
AMS3057-6A	14S	-6	3/4-20UNEF-2B	10.3	24.6	11.1	2.0	22.2	27.0	8
AMS3057-8A	16S, 16	-8	7/8-20UNEF-2B	10.3	27.8	14.3	2.8	23.8	29.4	11
AMS3057-10A	18	-10	1-20UNEF-2B	10.3	30.2	15.9	3.2	23.8	31.8	14
AMS3057-12A	20, 22	-12	1-3/16-18UNEF-2B	10.3	34.9	19.0	4.0	23.8	37.3	16
AMS3057-16A	24, 28	-12, -16	1-7/16-18UNEF-2B	10.3	42.1	23.8	4.8	26.2	42.9	16
AMS3057-20A	32	-16, -20	1-3/4-18UNS-2B	11.9	51.2	31.8	6.4	27.8	51.6	19
AMS3057-24A	36	-20, -24	2-18UNS-2B	13.5	56.4	34.9	7.5	29.4	57.9	24
AMS3057-40A	48	-28, -32, -40	3-16UN-2B	16.7	83.3	60.3	11.5	44.4	88.9	35

## RE: SELECTION OF COMMODITY NAME

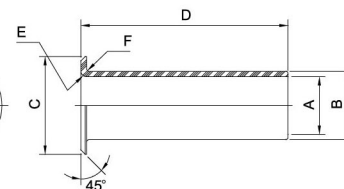
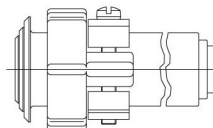
- (a) Please refer to the column of "Suitable shell size". Please select the commodity names suitable for the shell size of the connector. Example: For connector AMS 3106B 18-1P, because its shell size is 18, the commodity name of cable clamp shall be AMS3057-10A.
- (b) The maximum size of the cable used in clamping. Please make sure if it is in conformity with the sizes shown in the above table. It shall be picked out if it exceeds the sizes as shown in the table. Bushing AMS 3057-16-40A is kept inside 2-3 bushing. If it is unable to be put in more, please select the connector of the size above 3.
- (c) If the clamp saddle is already lightened but it is still unable to work, please insert the following bushing for using.

## BUSHING

## MS3420

**MS3420** rubber bushing is an accessory and it is used for installation of AMS3057A cable clamp, in case that the cable clamp is not operational while bundling the cables.

There are 12 sizes for MS3420-3240. The bushing with close nature can be repeated for using.



## Example:

In case that AMS3057-12A cable clamp is unable to be clamped while using, it is just because AMS3057-2 is equipped with MS3420-12 bushing. Thus, for solving such problem, it is merely to replace with small size MS3420-10 and then to repeat the assembly.

The status of the rubber bushing assembled on AMS3057A cable clamp

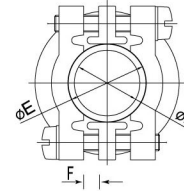
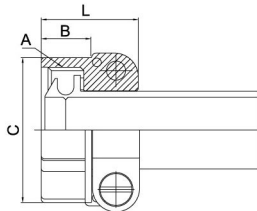
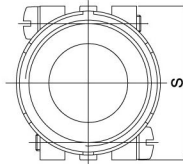
Item No.	Inner Diameter Aø ± 0.41	Out Diameter Bø ± 0.41	Cø ± 0.41	Length D ± 0.8	Fr, Fr ± 0.8
MS3420-3	3.30	5.33	9.63	73.0	0.8
MS3420-4	5.59	7.67	12.83	69.8	0.8
MS3420-6	7.92	10.85	15.72	66.7	0.8
MS3420-8	11.10	14.02	18.90	63.5	1.6
MS3420-10	14.27	15.62	22.07	60.3	1.6
MS3420-12	15.88	18.80	27.03	57.2	1.6
MS3420-16	19.05	23.55	33.38	54.0	1.6
MS3420-20	23.80	31.50	40.54	50.8	1.6
MS3420-24	31.75	34.67	46.91	47.6	1.6
MS3420-28	34.92	41.00	52.96	44.4	1.6
MS3420-32	41.25	47.35	59.31	41.3	1.6
MS3420-40	47.60	60.05	72.01	38.1	1.6



## CABLE CLAMP

## WPS3057-\*A

IP 65



Item No.	Shell size (ps.1)	Coupling Threads A	B	Tolerable cable C $\phi \pm 0.41$	Clamp E	F	Length L $\pm 0.8$	S $\pm 0.8$	Content $\phi$
WPS3057-4A	10S, 12S	5/8-24UNEF-2B	10.3	20.6	7.7	2	20.7	22.2	6.6
WPS3057-6A	14S	3/4-20UNEF-2B	10.3	24.6	10.8	2.8	22.2	27.1	8
WPS3057-8A	16S, 16	7/8-20UNEF-2B	10.3	27.8	14.3	2.8	23.8	29.4	11
WPS3057-10A	18	1-20UNEF-2B	10.3	30.2	15.9	3.2	23.8	31.8	14
WPS3057-12A	20, 22	1-3/16-18UNEF-2B	10.3	34.9	19.8	4.0	23.8	37.3	16
WPS3057-16A	24, 28	1-7/16-18UNEF-2B	10.3	42.1	23.8	4.8	26.2	42.9	19
WPS3057-20A	32	1-3/4-18UNS-2B	11.9	51.2	31.8	6.4	27.8	51.6	19
WPS3057-24A	36	2-18UNS-2B	13.5	56.4	34.9	7.5	29.4	57.9	24
WPS3057-40A	48	3-16UN-2B	16.7	83.3	60.3	11.5	44.4	88.9	35

## RE: SELECTION OF COMMODITY NAME

(a) Please refer to the column of "Suitable shell size"

Please select the commodity names suitable for the shell size of the connector.

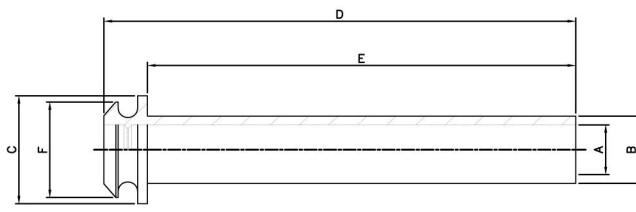
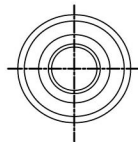
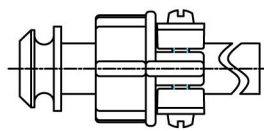
Example: For connector WPS 3106A18-1P, because it's shell size is 18, the commodity name of cable clamp shall be WPS3057-10A

(b) The maximum size of the cable used in clamping.

Please make sure if it is in conformity with the sizes shown in above table. It shall be picked out if it exceeds the sizes as shown in table.

Bushing WPS3057-16-40A is kept inside 2-3 bushing. If it is unable to be put in more, please select the connector of the size above 3.

## BUSHING

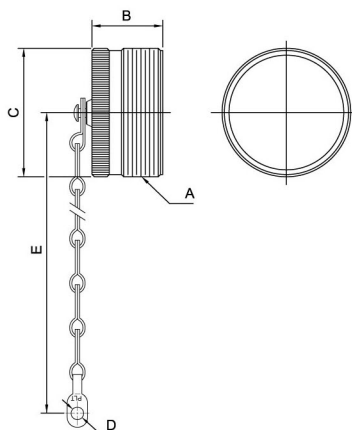


The status of the rubber bushing assembled on WPS3057A cable clamp

Item No.	Inner Diameter A $\phi \pm 0.3$	Out Diameter B $\phi \pm 0.3$	C $\phi \pm 0.3$	Length D $\pm 0.8$	Length E $\pm 0.3$	F $\phi \pm 0.3$
H-156RX (4A)	6	7.6	13	47.5	40.8	12
H-226RXB (6A)	8	10.85	17.4	72.7	66	15.4
H-372RXB (8A)	11.1	14	20	72.5	63.5	18
H-153RX (10A)	14	15.6	22	52.1	44	21.2
H-098RX (12A)	15.88	18.88	26	52	43.4	25
H-152RX (16A)	18	23	33	56.2	46.4	30.4
H-371RB (20A)	23.85	31.5	41	61.4	50.8	36

## CAP AND CHAIN ASSEMBLY

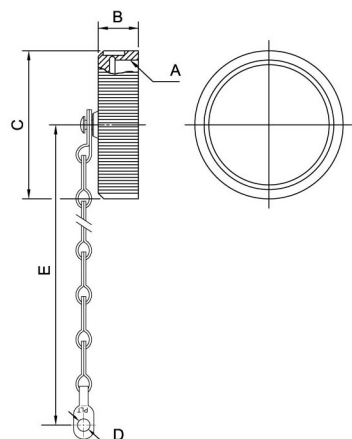
## AMS25042-\*\*D



Part Number	Shell size	Threads A	B	C	D	E
AMS25042-10D	10S	5/8-24UNEF-2A	.815 (20.7)	.625 (15.9)	.177 (4.5)	6.055 (153.8)
AMS25042-12D	12S	3/4-20UNEF	.815 (20.7)	.752 (19.1)	.154 (3.9)	4.488 (114)
AMS25042-14D	14S	7/8-20UNEF	.815 (20.7)	.874 (22.2)	.154 (3.9)	4.488 (114)
AMS25042-16D	16S, 16	1-20UNEF	.815 (20.7)	1.000 (25.4)	.154 (3.9)	4.488 (114)
AMS25042-18D	18	1-1/8-18UNEF	.815 (20.7)	1.126 (28.6)	.154 (3.9)	4.488 (114)
AMS25042-20D	20	1-1/4-18UNEF	.815 (20.7)	1.252 (31.8)	.185 (4.7)	5.000 (127)
AMS25042-22D	22	1-3/8-18UNEF	.815 (20.7)	1.374 (34.9)	.185 (4.7)	5.000 (127)
AMS25042-24D	24	1-1/2-18UNEF	.815 (20.7)	1.500 (38.1)	.185 (4.7)	5.472 (139)
AMS25042-28D	28	1-3/4-18UNS	.815 (20.7)	1.752 (44.5)	.185 (4.7)	7.480 (190)
AMS25042-32D	32	2-18UNS	.815 (20.7)	2.000 (50.8)	.217 (5.5)	7.480 (190)
AMS25042-36D	36	2-1/4-16UN	.815 (20.7)	2.252 (57.2)	.217 (5.5)	7.480 (190)

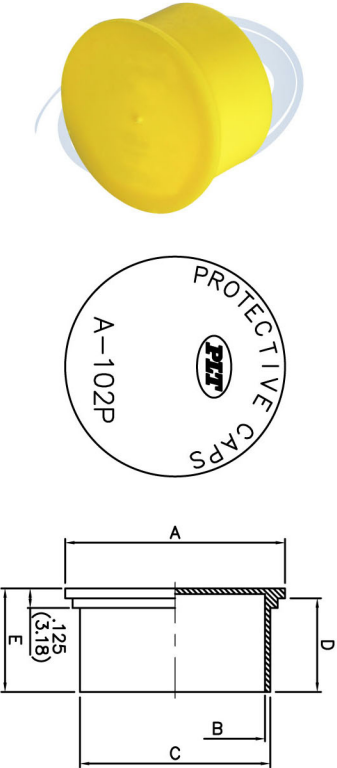
## CAP AND CHAIN ASSEMBLY

## AMS25043-\*\*D




Part Number	Shell size	Threads A	B	C	D	E
AMS25043-10D	10S	5/8-24UNEF-2B	.437 (11.1)	.787 (20.0)	.177 (4.5)	6.055 (153.8)
AMS25043-12D	12S	3/4-20UNEF	.437 (11.1)	.874 (22.2)	.138 (3.5)	4.488 (114)
AMS25043-14D	14S	7/8-20UNEF	.437 (11.1)	1.000 (25.4)	.138 (3.5)	4.488 (114)
AMS25043-16D	16S, 16	1-20UNEF	.437 (11.1)	1.157 (29.4)	.138 (3.5)	4.488 (114)
AMS25043-18D	18	1-1/8-18UNEF	.437 (11.1)	1.252 (31.8)	.138 (3.5)	4.488 (114)
AMS25043-20D	20	1-1/4-18UNEF	.437 (11.1)	1.374 (34.9)	.138 (3.5)	5.000 (127)
AMS25043-22D	22	1-3/8-18UNEF	.437 (11.1)	1.500 (38.1)	.138 (3.5)	5.000 (127)
AMS25043-24D	24	1-1/2-18UNEF	.500 (12.7)	1.689 (42.9)	.138 (3.5)	5.472 (139)
AMS25043-28D	28	1-3/4-18UNS	.500 (12.7)	1.921 (48.8)	.169 (4.3)	7.480 (190)
AMS25043-32D	32	2-18UNS	.500 (12.7)	2.189 (55.6)	.185 (4.7)	7.480 (190)
AMS25043-36D	36	2-1/4-16UN	.500 (12.7)	2.437 (61.9)	.185 (4.7)	7.480 (190)

## PROTECTIVE CAPS

	Part Number	A	B	C	D	E
	A-097P	.748(19.0)	.531(13.5)	.748(19.0)	.626(15.9)	.661(16.8)
	A-098P	.858(21.8)	.654(16.6)	.748(19.0)	.626(15.9)	.661(16.8)
	A-099P	1.031(26.2)	.783(19.9)	.748(19.0)	.626(15.9)	.661(16.8)
	A-100P	1.126(28.6)	.894(22.7)	.748(19.0)	.626(15.9)	.661(16.8)
	A-101P	1.248(31.7)	1.024(26.0)	.748(19.0)	.626(15.9)	.661(16.8)
	A-102P	1.406(35.7)	1.150(29.2)	.748(19.0)	.626(15.9)	.661(16.8)
	A-103P	1.500(38.1)	1.272(32.3)	.748(19.0)	.626(15.9)	.661(16.8)
	A-104P	1.642(41.7)	1.390(35.3)	.748(19.0)	.626(15.9)	.661(16.8)
	A-105P	1.874(47.6)	1.650(41.9)	.748(19.0)	.626(15.9)	.661(16.8)
	A-106P	2.126(54.0)	1.890(48.0)	.748(19.0)	.626(15.9)	.661(16.8)
	A-107P	2.339(59.4)	2.142(54.4)	.748(19.0)	.626(15.9)	.661(16.8)

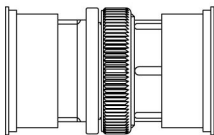
## PROTECTIVE CAPS

	Part Number	A	B	C	D	E
	A-097R	.839(21.3)	.606(15.4)	.665(16.9)	.500(12.7)	.535(13.6)
	A-098R	.969(24.6)	.720(18.3)	.776(19.7)	.500(12.7)	.535(13.6)
	A-099R	1.126(28.6)	.850(21.6)	.906(23.0)	.500(12.7)	.535(13.6)
	A-100R	1.220(31.0)	.972(24.7)	1.035(26.3)	.500(12.7)	.535(13.6)
	A-101R	1.331(33.8)	1.094(27.8)	1.154(29.3)	.563(14.3)	.598(15.2)
	A-102R	1.465(37.2)	1.232(31.3)	1.299(33.0)	.563(14.3)	.598(15.2)
	A-103R	1.591(40.4)	1.339(34.0)	1.409(35.8)	.563(14.3)	.598(15.2)
	A-104R	1.701(43.2)	1.465(37.0)	1.531(38.9)	.563(14.3)	.598(15.2)
	A-105R	1.949(49.5)	1.717(43.6)	1.791(45.5)	.563(14.3)	.598(15.2)
	A-106R	2.220(56.4)	1.965(49.9)	2.039(51.8)	.563(14.3)	.598(15.2)
	A-107R	2.443(61.8)	2.217(56.3)	2.291(58.2)	.598(15.2)	.634(16.1)

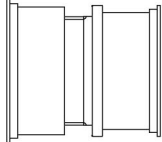


TYPES AND SIZES REQUIRED

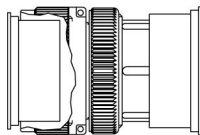
AMS3101



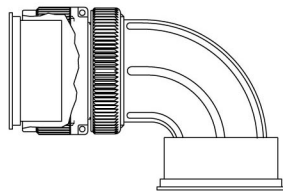
AMS3102



AMS3106



AMS3108



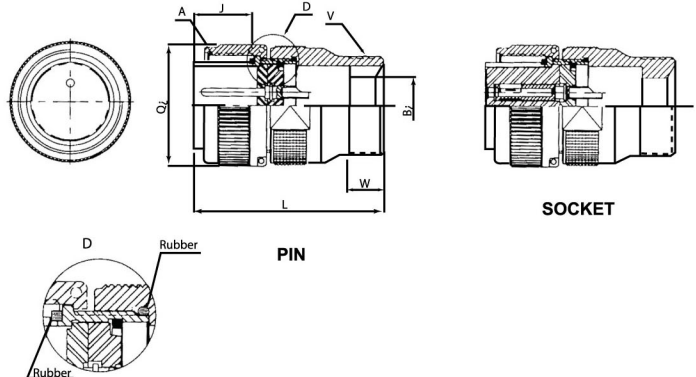
Shell size	Mating End	Termination End	Mating End	Termination End	Mating End	Termination End	Mating End	Termination End
12S	A-097R	A-097R	A-098R		A-098P	A-097R	A-098P	A-097R
14S	A-099R	A-098R	A-099R	A-098R	A-099P	A-098R	A-099P	A-098R
16S, 16	A-101R	A-099R	A-100R	A-099R	A-100P	A-099R	A-100P	A-099R
18	A-103R	A-100R	A-101R	A-100R	A-101P	A-100R	A-101P	A-100R
20	A-105R	A-102R	A-102R	A-101R	A-102P	A-102R	A-102P	A-102R
22	A-107R	A-102R	A-103R	A-102R	A-103P	A-102R	A-103P	A-102R
24	A-109R		A-104R	A-103R	A-104P		A-104P	
28	A-111R		A-105R		A-105P		A-105P	
32	A-113R	A-105R	A-106R		A-106P	A-105R	A-106P	A-105R
36	A-115R	A-106R	A-107R		A-107P	A-106R	A-107P	A-106R

## STRAIGHT PLUG

## WPS3106A

SOCKET  
INSERTION

PIN PLUG



Shell size (ps.1)	Coupling Threads A	Cable end B $\pm 0.3$	Length of connector J $\pm 0.3$	Full length	Outer radius Q $\pm 0.8$	Rear Threads V	Length of thread over W
10SL	5/8-24UNEF-2B	7	9.6	44.1	22	5/8-24UNEF-2A	10
12S	3/4-20UNEF-2B	8.6	13.5	37.7	25.5	5/8-24UNEF-2A	10
14S	7/8-20UNEF-2B	11	11.5	44	28.2	3/4-20UNEF-2A	10
16S	1-20UNEF-2B	12	13.5	42.8	31.8	7/8-20UNEF-2A	9.5
16	1-20UNEF-2B	12	18.3	52.4	31.8	7/8-20UNEF-2A	9.5
18	1-1/8-18UNEF-2B	15	18.3	52.4	34.1	1-20UNEF-2A	9.5
20	1-1/4-18UNEF-2B	17	18.6	57.9	37.0	1-3/16-18UNEF-2A	10.2
22	1-3/8-18UNEF-2B	17	18.6	57.5	40.2	1-3/16-18UNEF-2A	10.2
24	1-1/2-18UNEF-2B	19	18.3	58.7	43.7	1-7/16-18UNEF-2A	9.5
28	1-3/4-18UNS-2B	21	18.3	58.7	50.0	1-7/16-18UNEF-2A	9.5
32	2-18UNS-2B	29	16.7	64	56	1-3/4-18UNS-2A	9.5
36	2-1/4-18UNS-2B	44.5	16.7	60.3	62	2-18UNS-2A	9.5

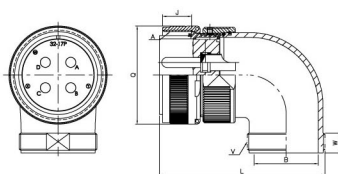
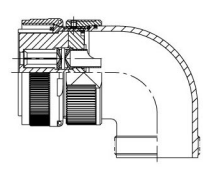
PS.: Shell size and insert arrangement, please refer to page 2-3.

## RIGHT ANGLE

## WPS3108A



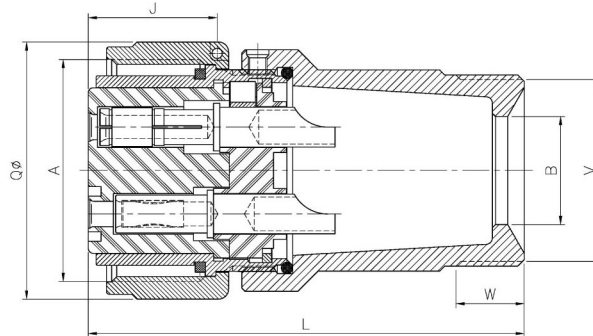
PIN PLUG

SOCKET  
INSERTION

Shell size (ps.1)	Coupling Threads A	Cable end B $\pm 0.3$	Length of connector J $\pm 0.3$	Full length	Outer radius Q $\pm 0.8$	Rear Threads V	Length of thread over W
10SL	5/8-24UNEF-2B	7	13.5	46	22.2	5/8-24UNEF-2A	9.5
12S	3/4-20UNEF-2B	10.5	13.5	50.8	26.97	5/8-24UNEF-2A	9.5
14S	7/8-20UNEF-2B	12.5	13.5	54	28.6	3/4-20UNEF-2A	9.5
16	1-20UNEF-2B	15.6	18.3	65.1	31.8	7/8-20UNEF-2A	9.5
18	1-1/8-18UNEF-2B	18.6	18.3	68.3	34.1	1-20UNEF-2A	9.5
20	1-1/4-18UNEF-2B	23.0	18.3	77	37.3	1-3/16-18UNEF-2A	9.5
22	1-3/8-18UNEF-2B	23.2	18.3	77	40.5	1-3/16-18UNEF-2A	9.5
24	1-1/2-18UNEF-2B	29.6 / 28.0	18.3	86.5	43.7	1-7/16-18UNEF-2A	9.5
28	1-3/4-18UNS-2B	29.8 / 28.2	18.3	86.5	50	1-7/16-18UNEF-2A	9.5
32	2-18UNS-2B	35.9	18.3	95.2	56.4	1-3/4-18UNS-2A	11.1
36	2-1/4UN-2B	43.8 / 42.2	18.3	100	62.7	2-18UNS-2A	12.7

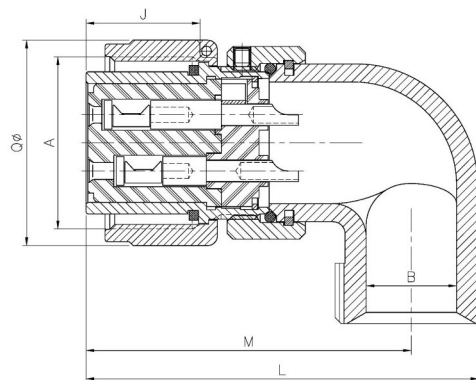
PS.: Shell size and insert arrangement, please refer to page 2-3.

## EUROPEAN STANDARD DIN VDE 0627

WPS3106A 18-10SE  
WPS3106A 22-22SE

Shell Size (ps.2)	Coupling Threads A	Cable end B $\pm 0.5$	Full length L $\pm 0.8$	M $\pm 0.8$	Outer radius Q $\pm 0.8$	Rear Threads V	Length of Threads over W	Length of Connector J $\pm 0.1$
WPS3106A 18-10SE	1-1/8-18UNEF-2B	15	57.4	-	34.1	1-20UNEF-2A	10	18.7
WPS3106A 22-22SE	1-3/8-18UNEF-2B	17	67.6	-	40.5	1-3/16-18UNEF-2A	12.5	17.2

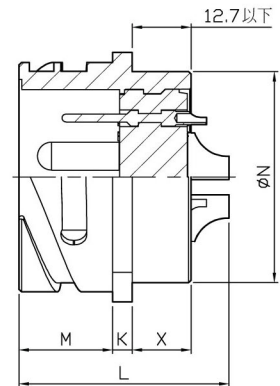
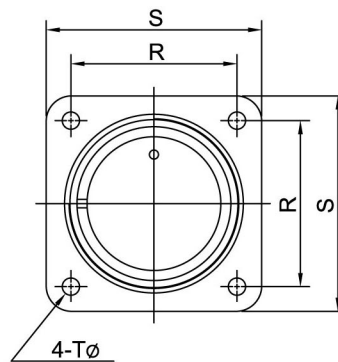
## EUROPEAN STANDARD DIN VDE 0627

WPS3108A 18-10SE  
WPS3108A 22-22SE

Shell Size (ps.2)	Coupling Threads A	Cable end B $\pm 0.5$	Full length L $\pm 0.8$	M $\pm 0.8$	Outer radius Q $\pm 0.8$	Rear Threads V	Length of Threads over W	Length of Connector J $\pm 0.13$
WPS3108A 18-10SE	1-1/8-18UNEF-2B	15	57.4	-	34.1	1-20UNEF-2A	10	18.7
WPS3108A 22-22SE	1-3/8-18UNEF-2B	17	74	-	40.5	1-3/16-18UNEF-2A	12.5	17.2

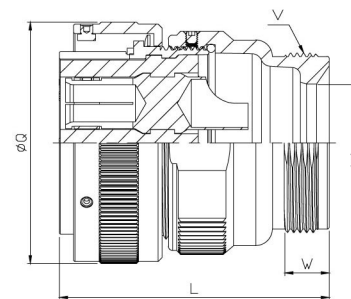
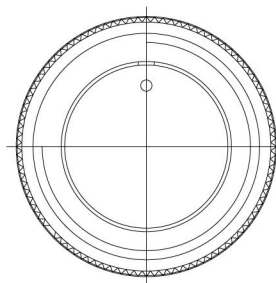
EUROPEAN STANDARD DIN VDE 0627



**AMS3102R**

Shell size	Thickness of the assembly rim under K	Length L	Length of assembly rim $M + 0.79$ $- 0$	Outer radius of the terminal $N + 0$ $- 4.78$	Position of the holes reserved for assembly $R \pm 0.13$	Length of the protruded sides $S \pm 0.79$	Hole diameter of the assembly ho $T + 0.25$ $- 0.13$
24	3.0	33.4	20.62	38.91	34.92	44.45	3.73
28	3.0	33.4	20.62	45.26	39.67	50.80	3.73
32	4.3	33.4	22.22	51.26	44.45	57.15	4.39
36	4.3	33.4	22.22	57.96	49.23	63.50	4.39
48	4.3	33.2	22.22	77.90	66.68	82.55	4.39

NO. OF CONTACTS	5 CONTACT	6 CONTACT	2 CONTACT	8 CONTACT	6 CONTACT
SHELL SIZE					
INSERT ARRANGEMENT	24-12	28-22	32-5	32-15	36-3
NUMBER OF CONTACTS	#4x2 PIN(A.C) #12x3 PIN(B.D.E)	#4x3 PIN(A-C) #16x3 PIN(D-F)	#0x2 PIN	#0x2 PIN(A.G) #12x6 PIN(B-F.H)	#0x2 PIN(B.D.F) #12x3 PIN(A.C.E)
SERVICE RATING(ps.1)	A	D	D	D	D
NO. OF CONTACTS	24 CONTACT	26 CONTACT	37 CONTACT	48 CONTACT	
SHELL SIZE					
INSERT ARRANGEMENT	24-28	28-12	28-21	36-10	
NUMBER OF CONTACTS	#16x24PIN	#16x26PIN	#16x37PIN	#36x48PIN	
SERVICE RATING(ps.1)	INST	A	A	A	



### AMS3106M

Shell size	Cable end B $\pm$ 0.3	Length L	Rear Threads V	Length of thread over
24	29.5	58.72	1-7/16-18UNEF-2A	9.5
28	29.8	58.72	1-7/16-18UNEF-2A	9.5
32	37.5	61.93	1-3/4-18UNEF-2A	11.1
36	43.8	61.93	2-18UNS-2A	12.7
48	69.1	65.07	3-16UN-2A	15.9

NO. OF CONTACTS	5 CONTACT	6 CONTACT	2 CONTACT	8 CONTACT	6 CONTACT
SHELL SIZE					
INSERT ARRANGEMENT	24-12	28-22	32-5	32-15	36-3
NUMBER OF CONTACTS	#4x2 PIN(A.C) #12x3 PIN(B.D.E)	#4x3 PIN(A-C) #16x3 PIN(D-F)	#0x2 PIN	#0x2 PIN(A.G) #12x6 PIN(B-F.H)	#0x2 PIN(B.D.F) #12x3 PIN(A.C.E)
SERVICE RATING(ps.1)	A	D	D	D	D

NO. OF CONTACTS	24 CONTACT	26 CONTACT	37 CONTACT	48 CONTACT	
SHELL SIZE					
INSERT ARRANGEMENT	24-28	28-12	28-21	36-10	
NUMBER OF CONTACTS	#16x24PIN	#16x26PIN	#16x37PIN	#36x48PIN	
SERVICE RATING(ps.1)	INST	A	A	A	

### SERVICE RATING

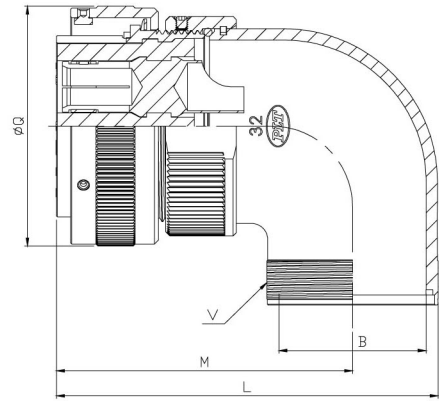
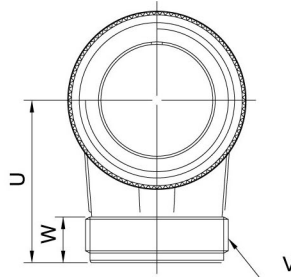
Service Rating	Operating Voltage(V)	
	DC.V	AC.V(r.m.s.)
INST	250	200
A	700	500
D	1250	900
E	1750	12500
B	2450	1750
C	4200	3000

### CONTACT CURRENT RATING

Contact Size	Test Current (Amperes)
#16	13
#12	23
#8	46
#4	80
#0	150

### WIRE SIZE

Contact		
Size	Solder Hold	Wire Size A.W.G
#16	1.85 $\varnothing$	#16~#22
#12	2.95 $\varnothing$	#12~#14
#8	5.31 $\varnothing$	#8~#10
#4	8.45 $\varnothing$	#4~#6
#0	11.91 $\varnothing$	#0~#2

**AMS3108M**

Shell size (ps.2)	Cable end B ± 0.3	Full length L	M ± 0.8	Outer radius Q ± 0.8	U ± 0.8	Rear Threads V	Length of thread over W
24	29.6 / 28.0	86.5	67.1	43.7	34.9	1-7/16-18UNEF-2A	9.5
28	29.8 / 28.2	86.5	67.1	50.0	38.5	1-7/16-18UNEF-2A	9.5
32	35.9	95.2	71.8	56.4	46.4	1-3/4-18UNEF-2A	11.1
36	42.7 / 42.2	100.0	73.4	62.7	51.2	2-18UNS-2A	12.7
48	69.1 / 65.9	125.4	86.5	81.8	59.1	3-16UN-2A	15.9

NO. OF CONTACTS	5 CONTACT	6 CONTACT	2 CONTACT	8 CONTACT	6 CONTACT
SHELL SIZE					
INSERT ARRANGEMENT	24-12	28-22	32-5	32-15	36-3
NUMBER OF CONTACTS	#4x2 PIN(A.C) #12x3 PIN(B.D.E)	#4x3 PIN(A-C) #16x3 PIN(D-F)	#0x2 PIN	#0x2 PIN(A.G) #12x6 PIN(B-F.H)	#0x2 PIN(B.D.F) #12x3 PIN(A.C.E)
SERVICE RATING(ps.1)	A	D	D	D	D

NO. OF CONTACTS	24 CONTACT	26 CONTACT	37 CONTACT	48 CONTACT	
SHELL SIZE					
INSERT ARRANGEMENT	24-28	28-12	28-21	36-10	
NUMBER OF CONTACTS	#16x24PIN	#16x26PIN	#16x37PIN	#36x48PIN	
SERVICE RATING(ps.1)	INST	A	A	A	

**SERVICE RATING**

Service Rating	Operating Voltage(V)	
	DC.V	AC.V(r.m.s.)
INST	250	200
A	700	500
D	1250	900
E	1750	12500
B	2450	1750
C	4200	3000

**CONTACT CURRENT RATING**

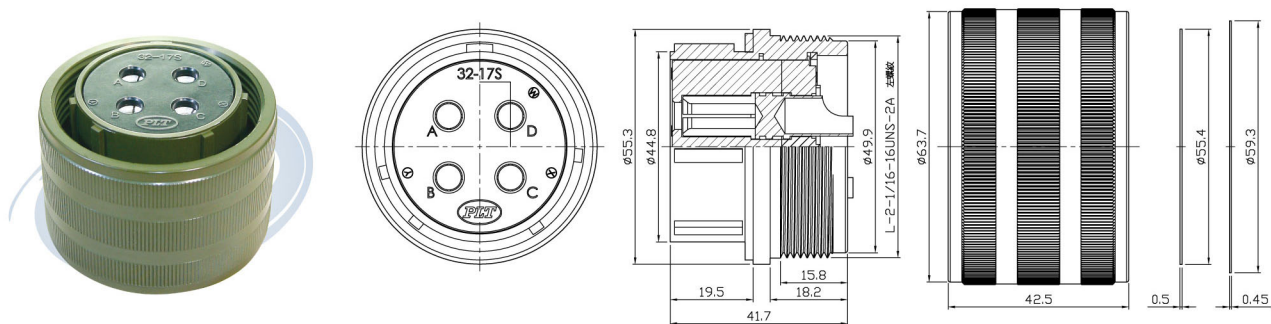
Contact Size	Test Current (Amperes)
#16	13
#12	23
#8	46
#4	80
#0	150

**WIRE SIZE**

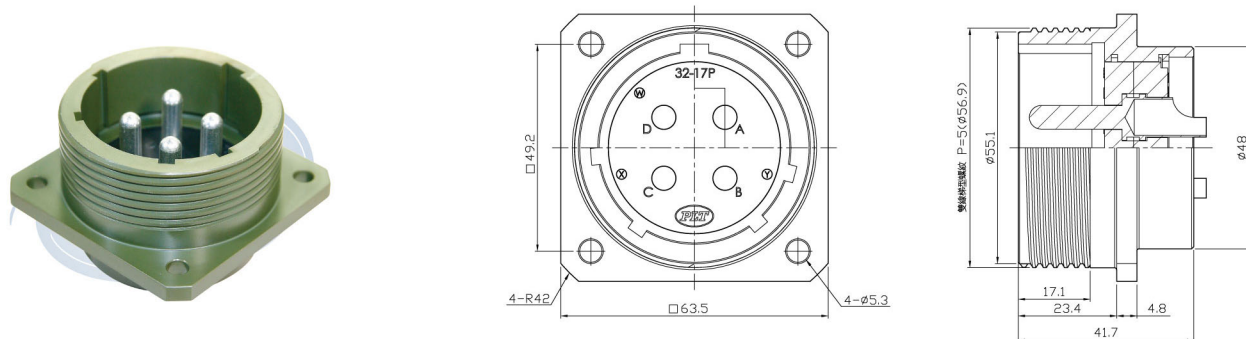
Contact		
Size	Solder Hold	Wire Size A.W.G
#16	1.85 Ø	#16~#22
#12	2.95 Ø	#12~#14
#8	5.31 Ø	#8~#10
#4	8.45 Ø	#4~#6
#0	11.91 Ø	#0~#2



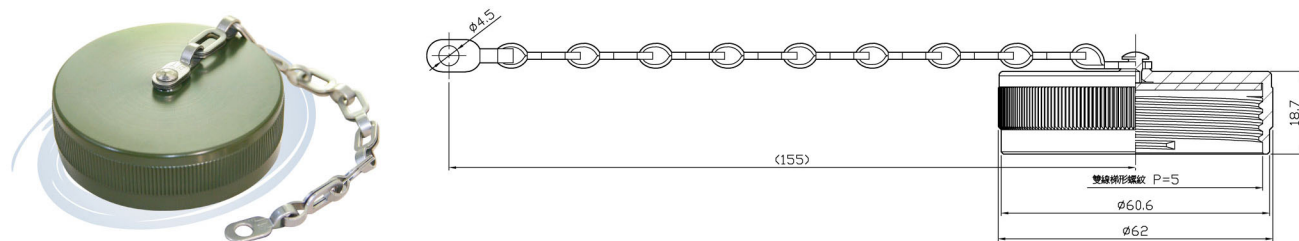
## AMS17344R 32C-17S



## AMS17346R 32C-17P

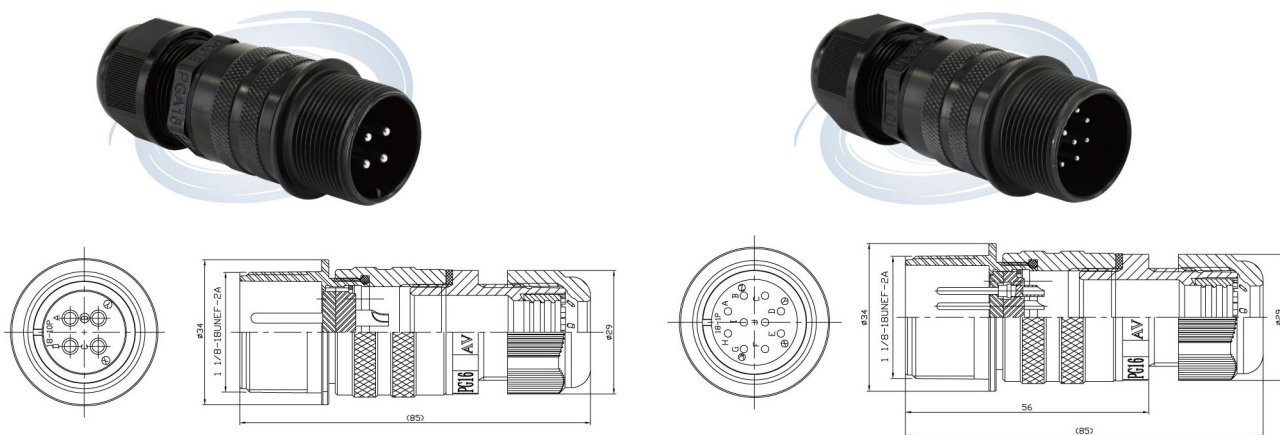


## AMS17349C32B



No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : 2800V/ 1 MINUTE
2	Test Current	<u>80</u> AMPERES
3	Insulation resistance	5000MΩ min.AT DC 500V

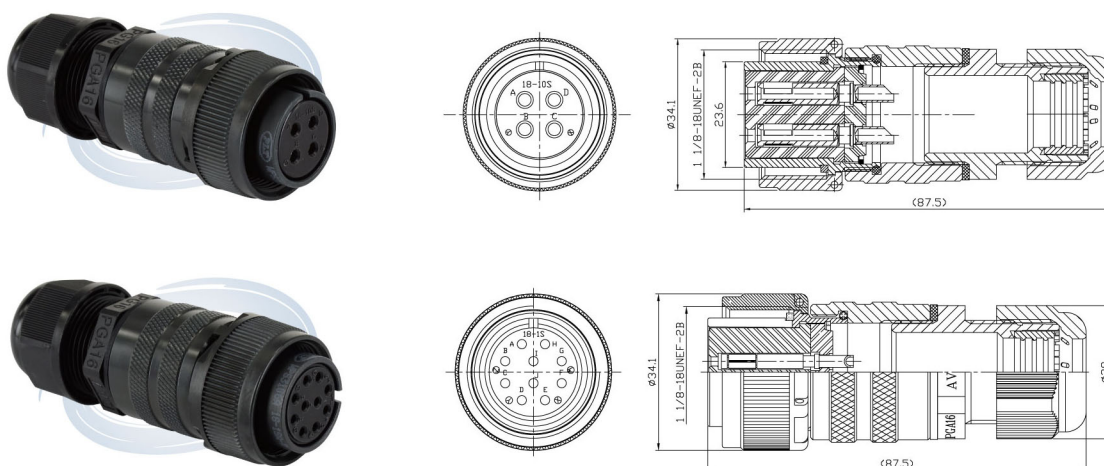
### WPS3101A 18-10PA-R / WPS3101A 18-1PA-R



#### No. ELECTRICAL SPECIFICATIONS

1	Test Current (Amperes)		13
2	Operating voltage (V.)	DC.V	700
		AC.V (r.m.s)	500
3	Withstanding voltage (V.)		2000
4	Insulation resistance (MΩ MIN.)		5000

### WPS3106A 18-10SA-R / WPS3106A 18-1SA-R

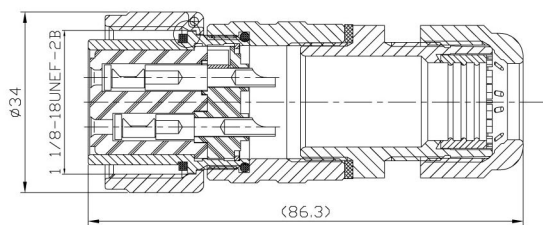
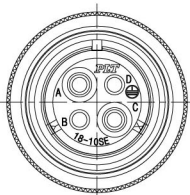


#### No. MACHINERY SPECIFICATIONS

1	Water Proof	IP 67
2	Operating Temperature	-20°C ~ 85°

WPS3106A 18-10SEA-R

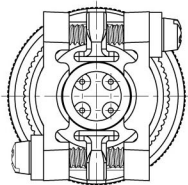
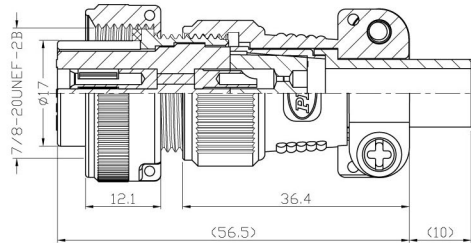
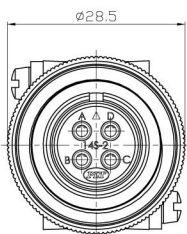
IP67



No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : 2000V / 1 MINUTE
2	Insulation resistance	5000M $\Omega$ min.AT DC 500V

WPS3106F 14S-2S-R

IP65

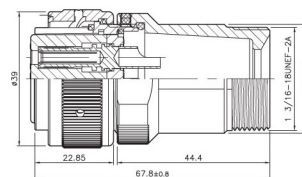
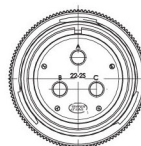
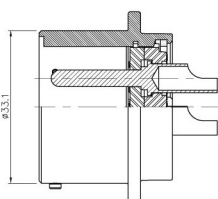
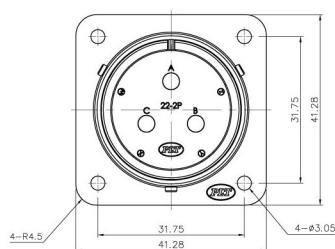


No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : 2000V / 1 MINUTE
2	Insulation resistance	2000M $\Omega$ min.AT DC 500V



## WPS3102F 22-2P-R / WPS3106F 22-2S-R

IP 65

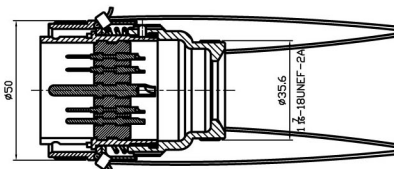
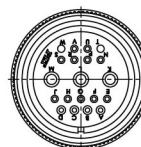
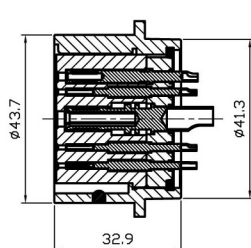
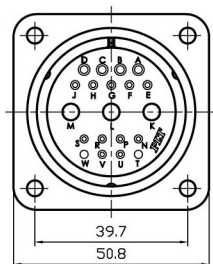


## No. ELECTRICAL SPECIFICATIONS

1	Withstanding voltage	AC : 2800V / 1 MINUTE
2	Insulation resistance	5000MΩ min. AT DC 500V

WPS Series

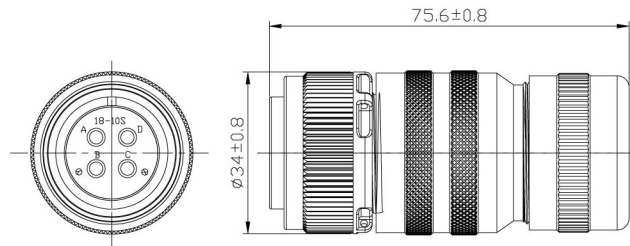
## WPS3102B 28-18S / WPS3106B 28-18P



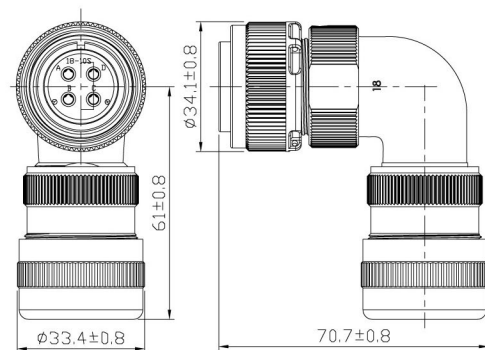
## No. ELECTRICAL SPECIFICATIONS

1	Withstanding voltage	AC : 2000V / 1 MINUTE
2	Insulation resistance	5000MΩ min. AT DC 500V

## WPS3106A 18-10SCL-R



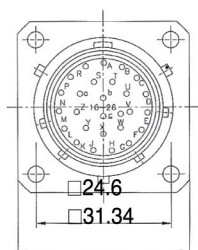
## WPS3108A 18-10SCL-R



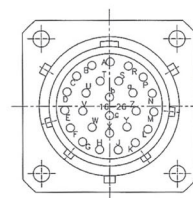
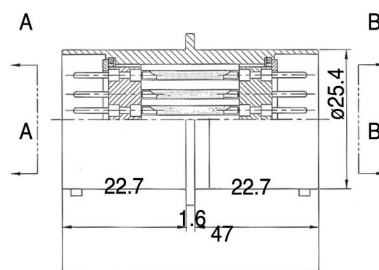
No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : 2000V / 1 MINUTE
2	Insulation resistance	5000MΩ min.AT DC 500V
3	Contact Resistance	DC 1A MAX 3MΩ

## MIL-C-26482 CONNECTOR

### AMS3122E 16-26A

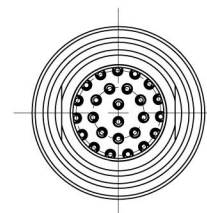
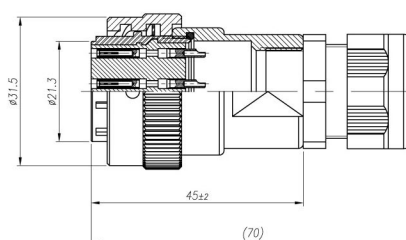
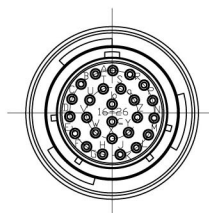


A-A POSITION

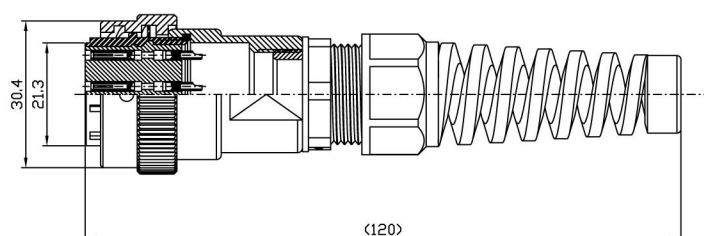


B-B POSITION

### AMS3126A 16-26S



### AMS3126A 16-26 SA-R

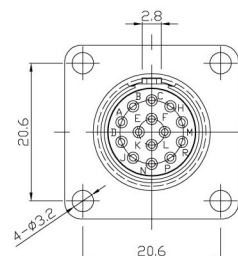
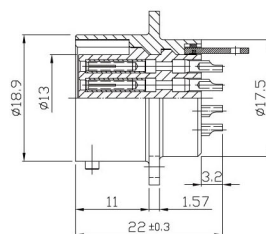
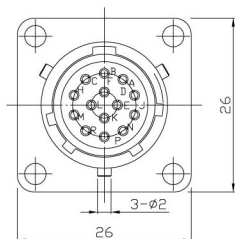


No.	ELECTRICAL CHARACTERISTICS	
1	Rate Current / voltage	5A 125V
2	Operation limit voltage (rms)	200V AC
3	Withstanding voltage (rms 1 minute)	1000V AC
4	Insulation resistance (at DC 500V)	1000MΩ MIN.
5	Contact resistance (at DC 1A)	3mΩ MAX.

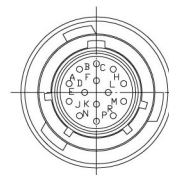
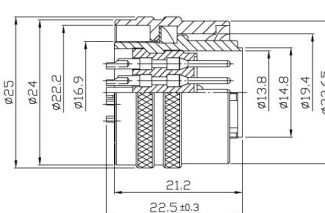
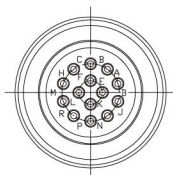


## MIL-C-26482 CONNECTOR

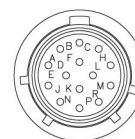
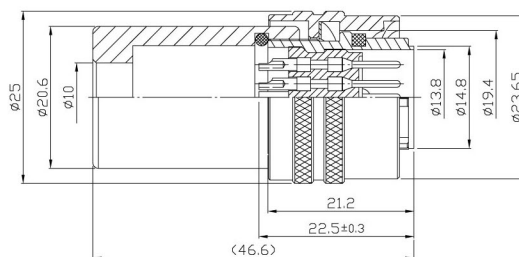
### AMS3112E 12-14 SE



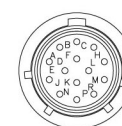
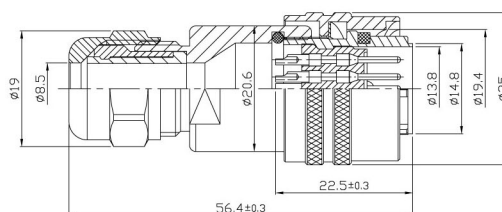
### AMS3116A 12-14 PA



### AMS3116A 12-14 PB



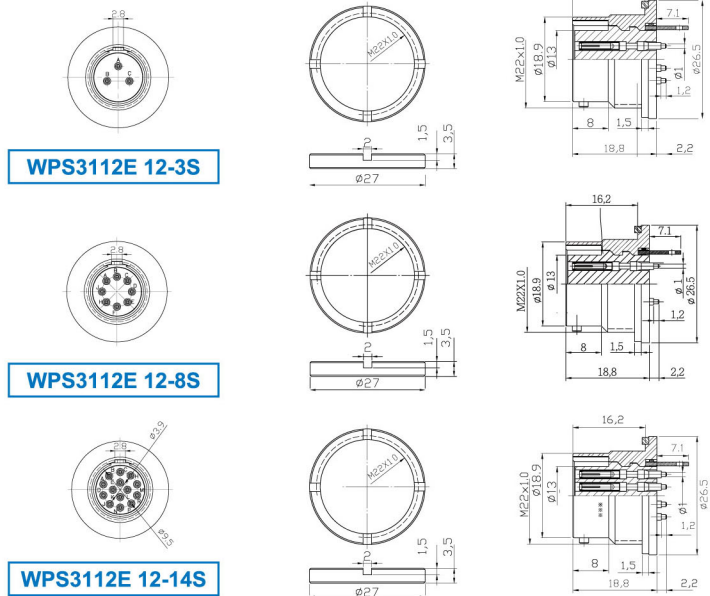
### AMS3116A 12-14 PC



No.	ELECTRICAL CHARACTERISTICS	
1	Rate Current / voltage	5A 125V
2	Operation limit voltage (rms)	200V AC
3	Withstanding voltage (rms 1 minute)	1000V AC
4	Insulation resistance (at DC 500V)	1000MΩ MIN.
5	Contact resistance (at DC 1A)	3mΩ MAX.



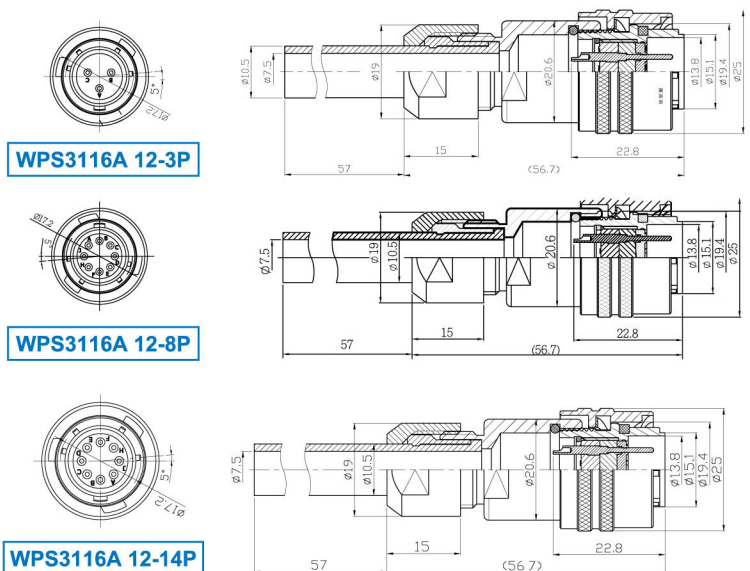
#20x8 PIN CONNECTOR



NO.	ELECTRICAL CHARACTERISTICS	
1	Rated Current/voltage	5A 125V
2	Operation limit voltage (AC.V.rms)	200
3	Withstanding voltage (AC.V.rms) 1 minute	1000
4	Insulation resistance(MΩ MIN.) at DC 500V	1000
5	Contact resistance (mΩ MAX.) at DC 1A	3



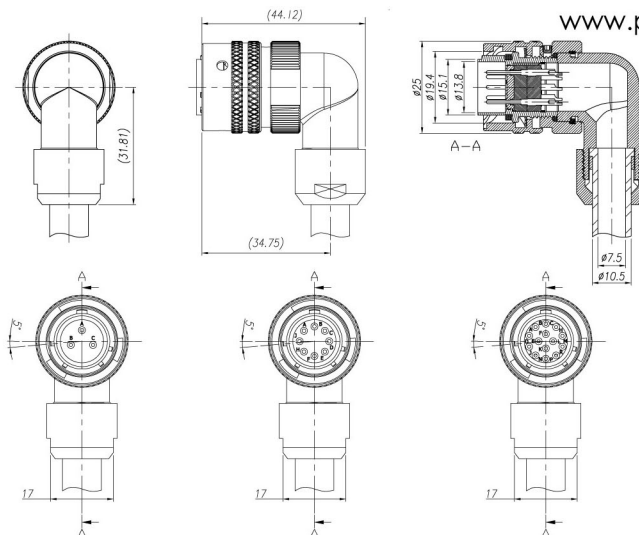
#20x8 PIN CONNECTOR



NO.	ELECTRICAL CHARACTERISTICS	
1	Rated Current/voltage	5A 125V
2	Operation limit voltage (AC.V.rms)	200
3	Withstanding voltage (AC.V.rms) 1 minute	1000
4	Insulation resistance(MΩ MIN.) at DC 500V	1000
5	Contact resistance (mΩ MAX.) at DC 1A	3



#20x8 PIN CONNECTOR



WPS3118A 12-3P

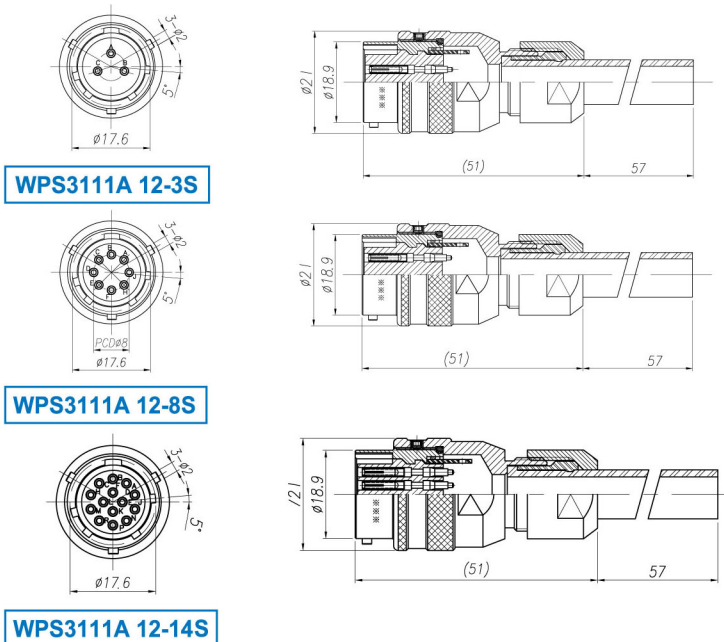
WPS3118A 12-8P

WPS3118A 12-14P

NO.	ELECTRICAL CHARACTERISTICS	
1	Rated Current/voltage	5A 125V
2	Operation limit voltage (AC.V.rms)	200
3	Withstanding voltage (AC.V.rms) 1 minute	1000
4	Insulation resistance(MΩ MIN.) at DC 500V	1000
5	Contact resistance (mΩ MAX.) at DC 1A	3



#20x14 PIN CONNECTOR



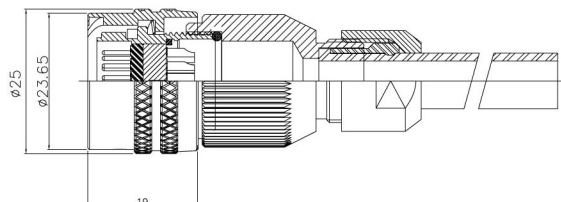
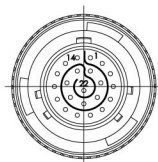
WPS3111A 12-3S

WPS3111A 12-8S

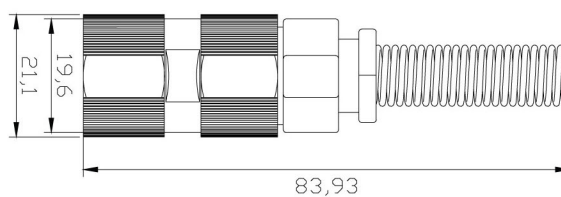
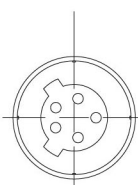
WPS3111A 12-14S

NO.	ELECTRICAL CHARACTERISTICS	
1	Rated Current/voltage	5A 125V
2	Operation limit voltage (AC.V.rms)	200
3	Withstanding voltage (AC.V.rms) 1 minute	1000
4	Insulation resistance(MΩ MIN.) at DC 500V	1000
5	Contact resistance (mΩ MAX.) at DC 1A	3

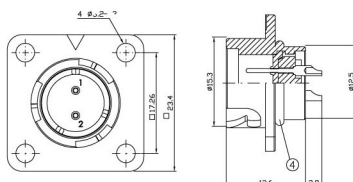


**WPS27472E 12-35S****WPS27473E 12-35P**

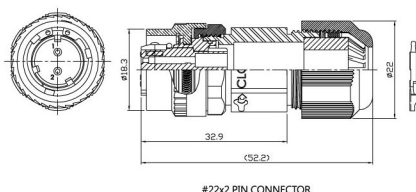
No.	ELECTRICAL SPECIFICATIONS	
1	Rated Current / voltage	5A 125V
2	Operation limit voltage (AC.V.rms)	400
3	Withstanding voltage (AC.V.rms) 1 minute	1000
4	Insulation resistance (MΩ MIN.) at DC 500V	1000
5	Contact resistance (mΩ MIN.) at DC 1A	3

**U-138/U****U-229/U**

No.	ELECTRICAL SPECIFICATIONS	
1	Operating current (per contact)	500 m A
2	Operating voltage (AC.V.rms)	60
3	Dielectric strength (V.rms)	500
4	Insulation resistance (MΩ MIN.) at DC 100V	1000
5	Contact resistance (mΩ MIN.) at DC 1A	50

**WPM-152-RM-R**

**WPM-152-PF-R**

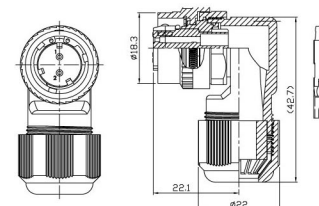
(Crimp Pin)



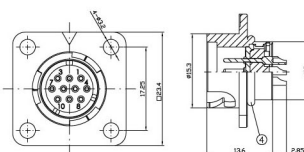
#22x2 PIN CONNECTOR

**WPM-152-LPF-R**

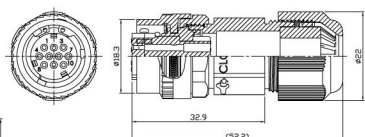
(Crimp Pin)


**NO. ELECTRICAL CHARACTERISTICS**

1	Operation limit voltage (AC.V.rms)	200
2	Withstanding voltage (AC.V.rms) 1 minute	1500
3	Insulation resistance (MΩ MIN.) at DC 500V	1000

**WPM-1510-RM-R**

**WPM-1510-PF-R**

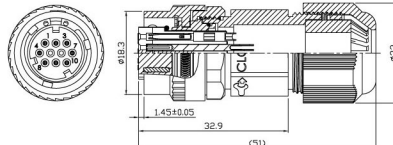
(Crimp Pin)



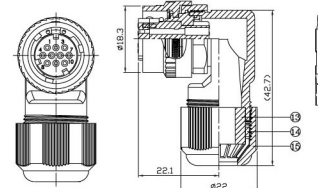
#22x10 PIN CONNECTOR

**WPM-1510-PFB-R**

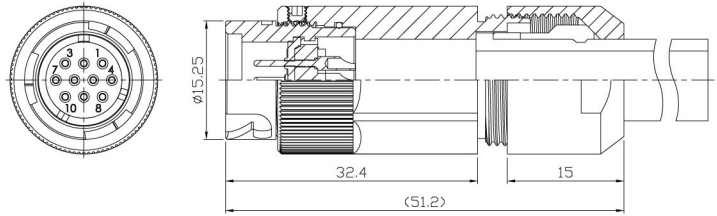
(Solder Pin)


**WPM-1510-LPF-R**

(Crimp Pin)


**NO. ELECTRICAL CHARACTERISTICS**

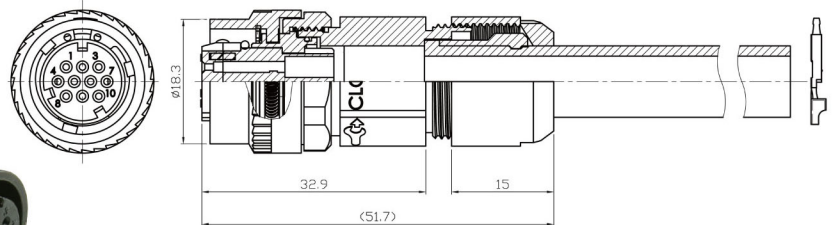
1	Operation limit voltage (AC.V.rms)	200
2	Withstanding voltage (AC.V.rms) 1 minute	900
3	Insulation resistance (MΩ MIN.) at DC 500V	1000



#22x10 PIN CONNECTOR

**WPM-1510-AdMA-R**

NO.	ELECTRICAL CHARACTERISTICS	
1	Operation limit voltage (AC.V.rms)	200
2	Withstanding voltage (AC.V.rms) 1 minute	900
3	Insulation resistance (MΩ MIN.) at DC 500V	1000



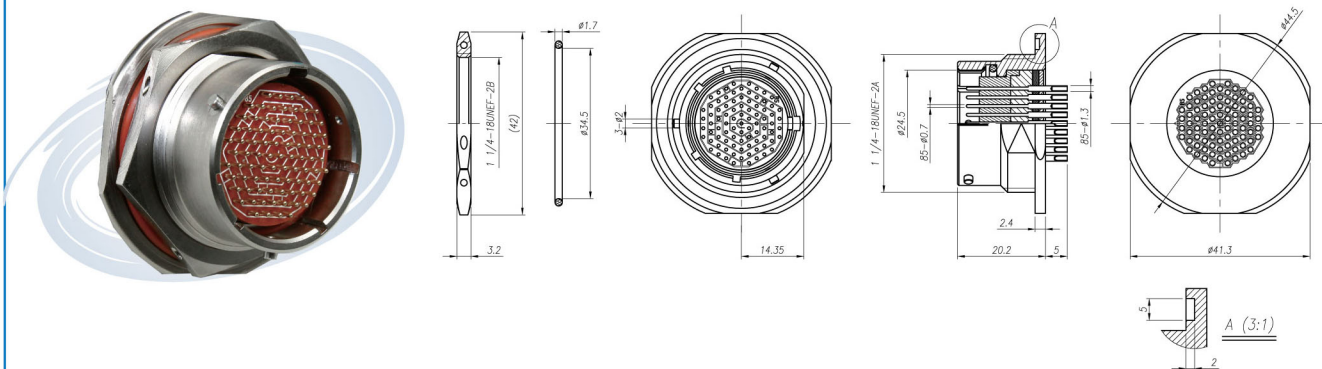
#22x10 PIN CONNECTOR

**WPM-1510-PFA** (Crimp Pin)

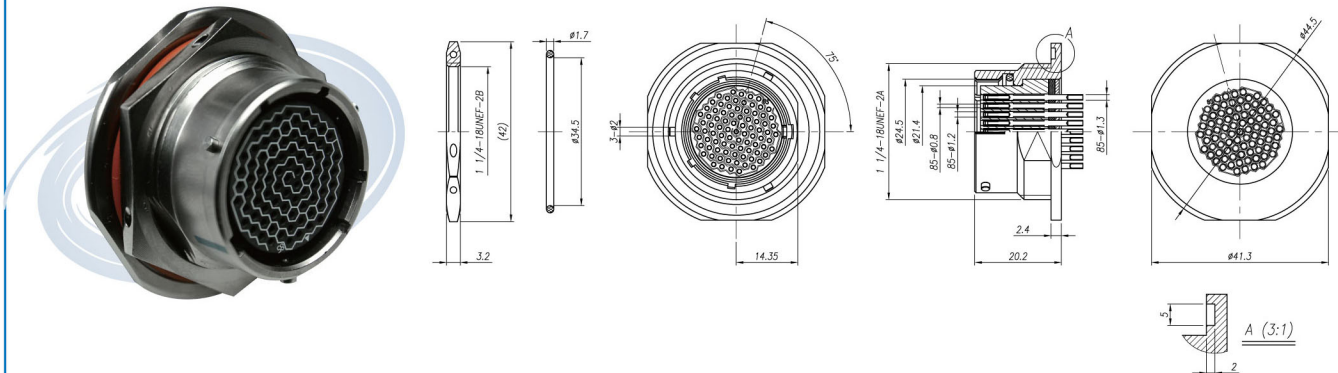
NO.	ELECTRICAL CHARACTERISTICS	
1	Operation limit voltage (AC.V.rms)	200
2	Withstanding voltage (AC.V.rms) 1 minute	900
3	Insulation resistance (MΩ MIN.) at DC 500V	1000



**WPM-3285-RM**

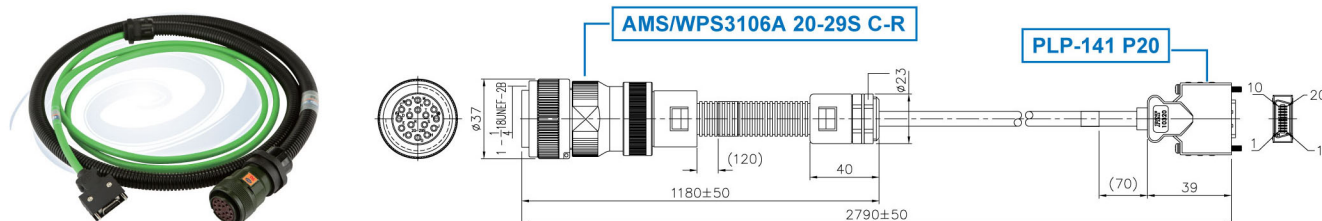


## WPM-3285-RFY

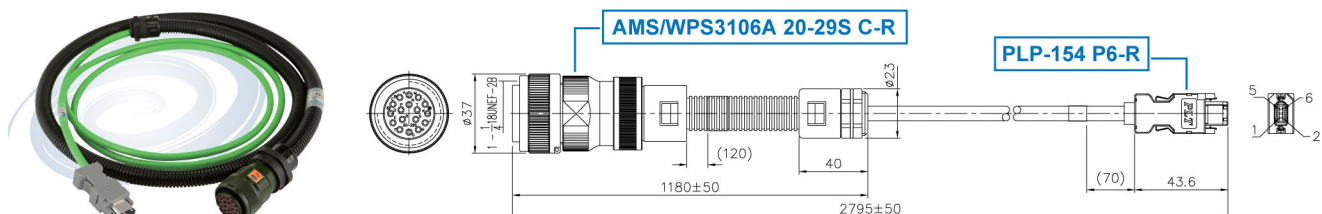


No.	ELECTRICAL CHARACTERISTICS	
1	Rate Current / voltage	5A 125V
2	Operation limit voltage (rms)	200V AC
3	Withstanding voltage (rms 1 minute )	1000V AC
4	Insulation resistance (at DC 500V)	1000MΩ MIN.
5	Contact resistance (at DC 1A)	3MΩ MAX.

## WA-1013A-R

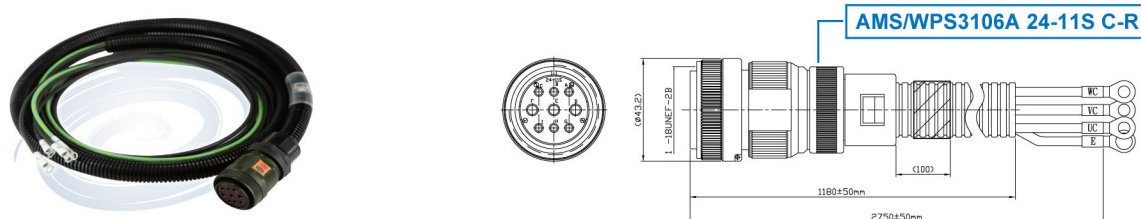


## WA-1014A-R



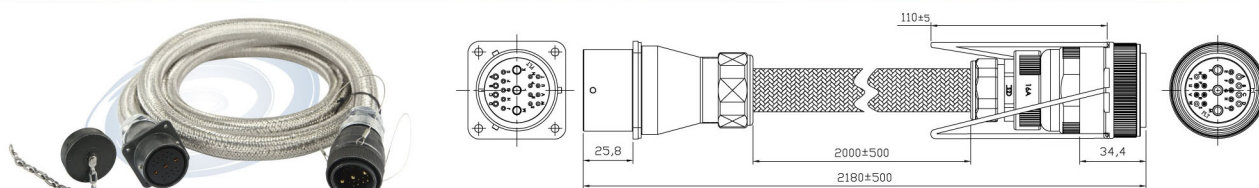
No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : 300V / 1 MINUTE
2	Insulation resistance	100MΩ min.AT DC 500V

## WA-1015A-R

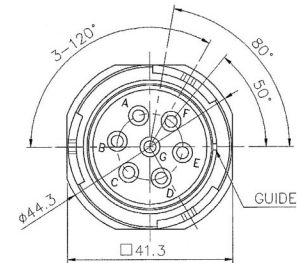
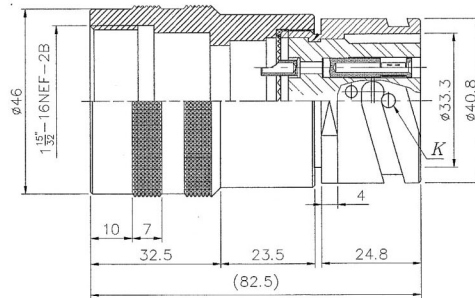
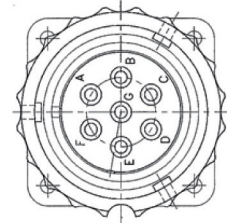
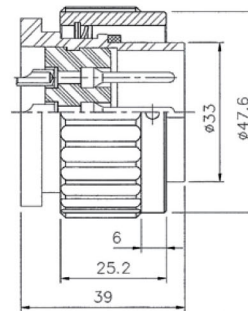
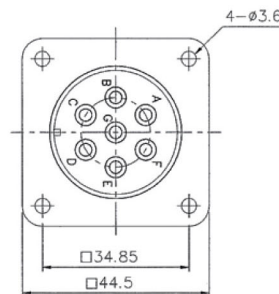


No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : 600V / 1 MINUTE
2	Insulation resistance	100MΩ min.AT DC 500V

## WA-753A



No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : 600V / 1 MINUTE
2	Insulation resistance	100MΩ min.AT DC 500V

**WPS-2407-LF**

**WPS-2407-SM**


No.	ELECTRICAL SPECIFICATIONS		
1	Operating Voltage	DC: 700V	AC(rms): 500V
2	Withstanding Voltage	AC: 2000V	1 minute
3	Test Current	22 Amperes	
4	Insulation Resistance	5000MΩ min. at DC : 500V	



## BUSINESS SCOPE

- | **The 1st Production Dept.**  
**Connector**  
Military / Waterproof / RF Coaxial / Industrial Series
- | **The 2nd Production Dept.**  
**Various Types of Molds**  
Customized Mold and Machinery Components Design & Manufacturing
- | **The 3rd Production Dept.**  
**Wire Assembly**
- | **The 4th Production Dept.**  
**Wireless Communication**  
Antenna / Transceiver / Peripheral Earphone Mic
- | **The 5th Production Dept.**  
**Precision Machine Manufacturing**  
CNC Turning and Milling Compound Lathe / Precision Hand Arbor Press and Table Press Manufacturing
- | **The 6th Production Dept.**  
**Medical Facilities for Senior Health Care**  
Wireless Remote Control Patient Care System / Medical Care On-Call System
- | **The 7th Production Dept.**  
**Channels of Distribution for Products Solution**



ISO / TS 16949 CERTIFIED IN GLOBAL AUTOMOBILE INDUSTRY  
ISO 14001 / 9001 INTERNATIONAL Q/C CERTIFIED, INDUSTRY CATEGORY SUPPLIER OF M.N.D.  
ISO / TS 16949 全球汽車產業品質管理系統認證  
ISO 14001 國際環境管理系統SGS認證專業製造廠 ISO 9001 國際品質管理系統認證



International Q/C Certification



RoHS Compliant



ISO9001

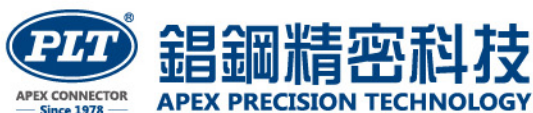


ISO14001



ISO/TS16949

Agent / 代理商



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(2015年6月落成予定)



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