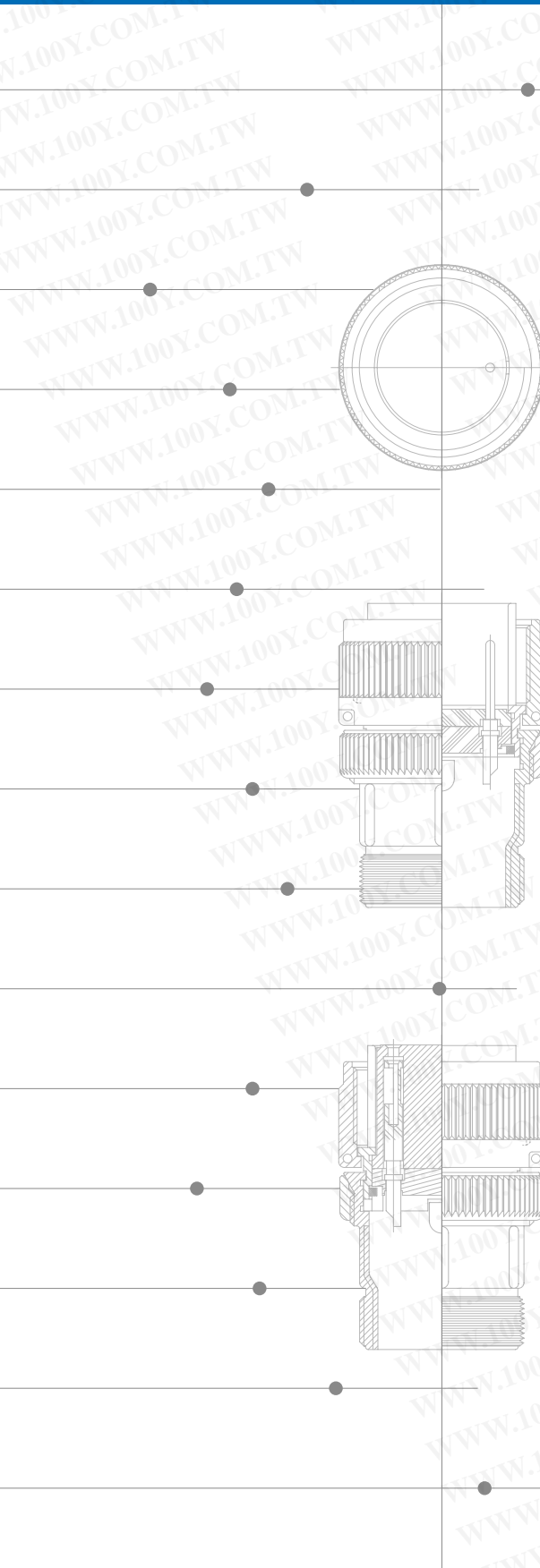


# Contents

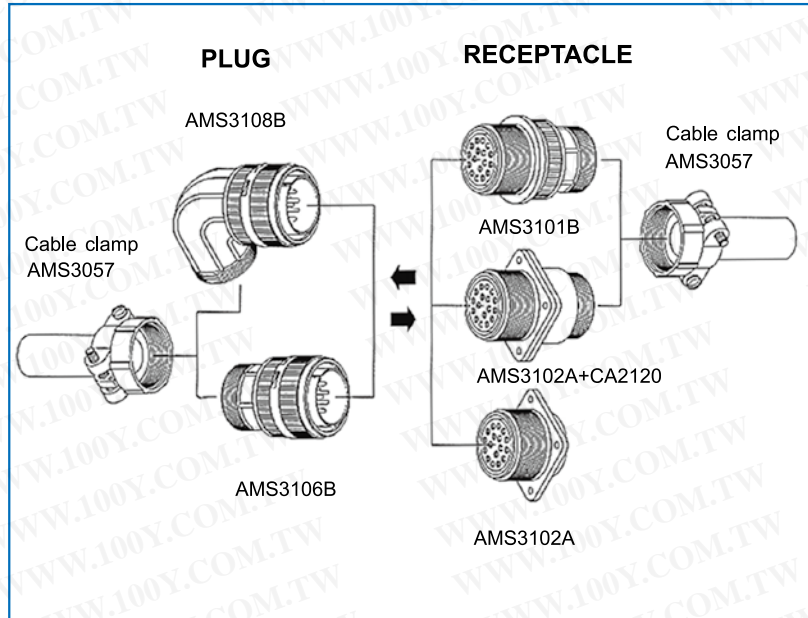


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# Assembling of Connector



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

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

### Interruptible Plug: AMS3101B

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

### Straight Plug: AMS3106B

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

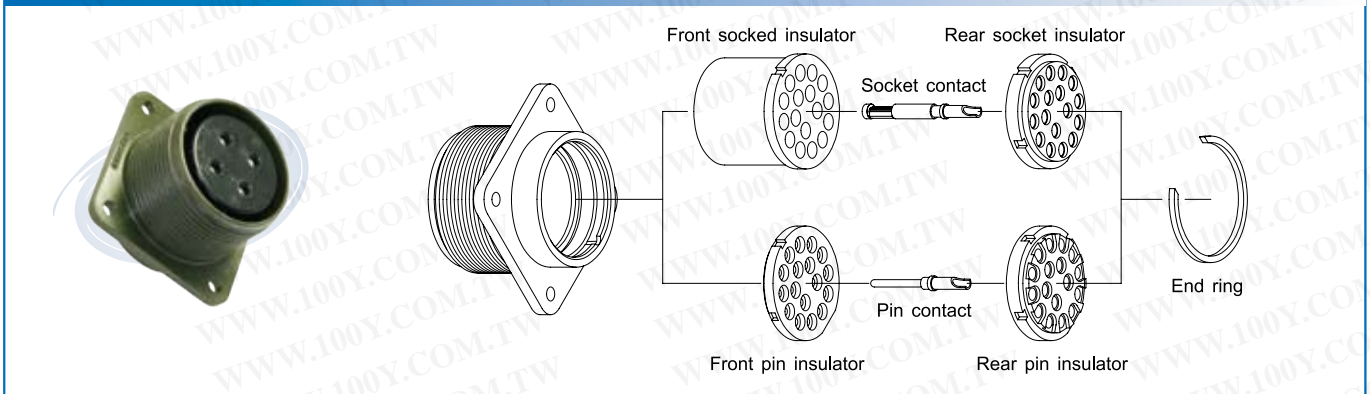
The outlet of the cable constitutes vertical direction in contrast with the combining axis.

### Cable Plug: AMS3057

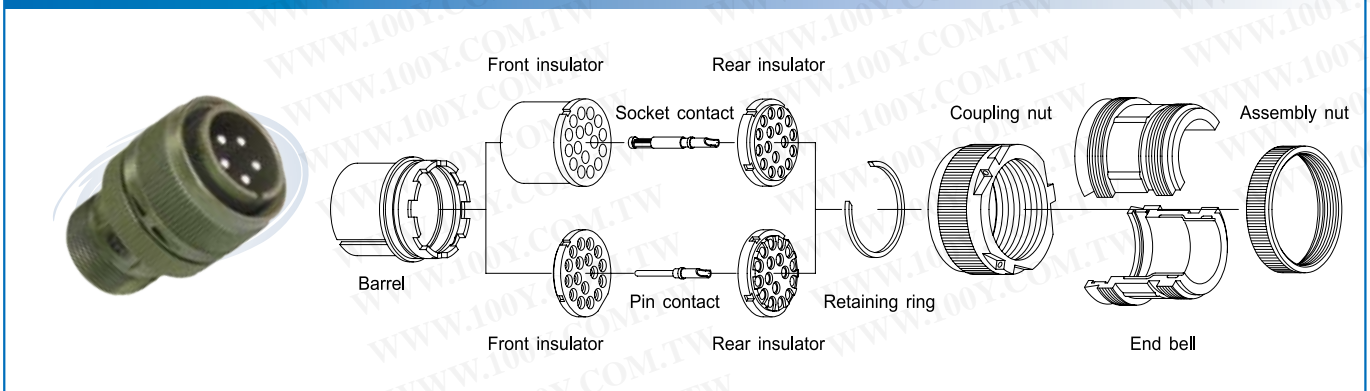
A connecting wire attaches on the plug and interruptible plug which is an accessory used for tightening the cable.

## Disassembly Chart

### AMS3102A

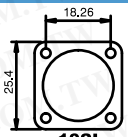




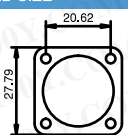


### AMS3106B

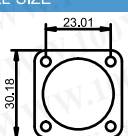






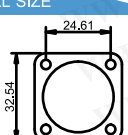


### INSERT ARRANGEMENTS

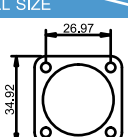



(front face of pin inserts illustrated)

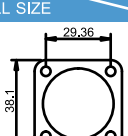

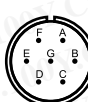



NO. OF CONTACTS	2 CONTACT	3 CONTACT		
SHELL SIZE				
INSERT ARRANGEMENT				
NUMBER OF CONTACTS	#16 x 2 Pin	#16 x 3 Pin		
SERVICE RATING(ps.1)	INST	INST		

NO. OF CONTACTS	2 CONTACT	14CONTACT		
SHELL SIZE				
INSERT ARRANGEMENT				
NUMBER OF CONTACTS	#16 x 2 Pin	#20x14Pin		
SERVICE RATING(ps.1)	A	5A 125V		

NO. OF CONTACTS	3 CONTACT	4 CONTACT	5 CONTACT	6 CONTACT	
SHELL SIZE					
INSERT ARRANGEMENT					
NUMBER OF CONTACTS	#16 x 3 Pin	#16 x 4 Pin	#16 x 5 Pin	#16 x 6 Pin	
SERVICE RATING(ps.1)	A	INST	INST	INST	

NO. OF CONTACTS	3 CONTACT	7 CONTACT		
SHELL SIZE				
INSERT ARRANGEMENT				
NUMBER OF CONTACTS	#12 x 3 Pin	#16 x 7 Pin		
SERVICE RATING(ps.1)	A	A		

NO. OF CONTACTS	4 CONTACT	5 CONTACT	10 CONTACT		
SHELL SIZE					
INSERT ARRANGEMENT					
NUMBER OF CONTACTS	#12 x 4 Pin	#12 x 5 Pin	#16 x 10 Pin		
SERVICE RATING(ps.1)	A	A	A(B.C.F.G) INST(Other)		

NO. OF CONTACTS	4 CONTACT	7 CONTACT	9 CONTACT	14 CONTACT	17 CONTACT
SHELL SIZE					
INSERT ARRANGEMENT					
NUMBER OF CONTACTS	#12 x 4 Pin	#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
SERVICE RATING(ps.1)	D	A	A	A	A

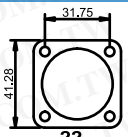
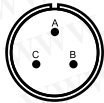
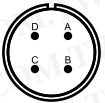


ps.1 Service rating , please refer to page-contact sizes

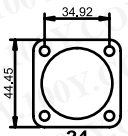
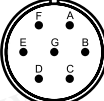
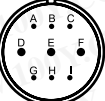
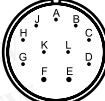


# AMS Series

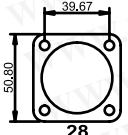
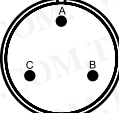

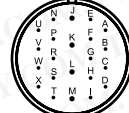




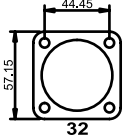
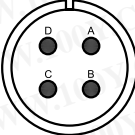


## INSERT ARRANGEMENTS

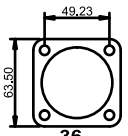
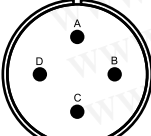

(front face of pin inserts illustrated)

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

NO. OF CONTACTS SHELL SIZE	7 CONTACT	9 CONTACT	11 CONTACT	16 CONTACT	24 CONTACT
 <p>24</p>					
INSERT ARRANGEMENT	24-10	24-11	24-20	24-7	24-28
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
SERVICE RATING(ps.1)	A	A	D	A	INST

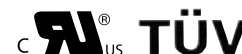
NO. OF CONTACTS SHELL SIZE	3 CONTACT	14 CONTACT	22 CONTACT	26 CONTACT	37 CONTACT
 <p>28</p>					
INSERT ARRANGEMENT	28-6	28-20	28-11	28-12	28-21
NUMBER OF CONTACTS	#4 x 3 Pin	#16 x 4 Pin(K.L.M.N) #12 x 10 Pin(A-J.P)	#16 x 18 Pin(A-I.N-X) #12 x 4 Pin(J.K.L.M)	#16 x 26 Pin	#16 x 37 Pin
SERVICE RATING(ps.1)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

NO. OF CONTACTS SHELL SIZE	4 CONTACT	35 CONTACT	54 CONTACT
 <p>32</p>			
INSERT ARRANGEMENT	32-17	32-7	32A10
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
SERVICE RATING(ps.1)	D	INST(A.B.h.j)A(Other)	A

NO. OF CONTACTS SHELL SIZE	4 CONTACT	48 CONTACT
 <p>36</p>		
INSERT ARRANGEMENT	36-5	36-10
NUMBER OF CONTACTS	#0 x 4 Pin	#16 x 48 Pin
SERVICE RATING(ps.1)	A	A

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

# AMS Series



## ORDERING INFORMATION

<b>AMS</b>	<b>3106A</b>	<b>24-10</b>	<b>S</b>	<b>Y</b>	<b>G</b>
SERIES		INSERT ARRANGEMENT See page 2 to 3	CONTACT STYLE P: Pin S: Socket	ALTERNATE INSERT POSITION OMIT: Standard position W.X.Y.Z: Alternate position	REMARKS: STANDARD: Silver plated contacts (G): Gold plated contact
SHELL STYLE 3101B: Cable connecting receptacle, solid shell 3102A: Box Mounting receptacle, solid shell 3106B: Straight plug, split shell 3108B: Angle plug, split shell					

## ORDERING INFORMATION

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.

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	-
5	36-5	-	120	240	-
	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.

<b>Mark</b>	2	3 or 5	4	8 or 13	9	12
<b>Revolving Angle</b>	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	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

# Connector Dimension

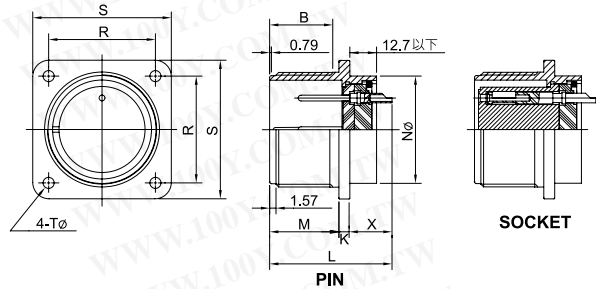
## RECEPTACLE

## AMS3102A



SOCKET

PIN PLUG



SOCKET

PIN

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 ± 0.13	Length of the protruded sides S ± 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. 1: For details on the position of the connectors matching the shell diameters, please refer to pages 9-10

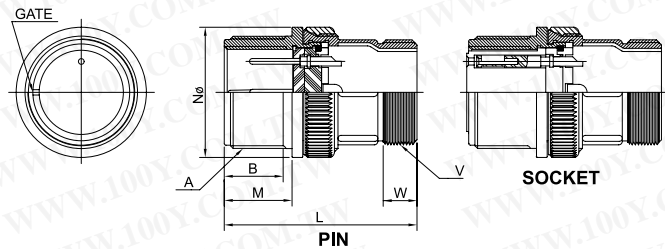
## CABLE CONNECTING RECEPTACLE

## 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 M + 0.4 - 0	Outer radius under N	Rear Threads V	Length of thread over W
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. 2: For details on the position of the connectors matching the shell diameters, please refer to pages 9-10

# Connector Dimension



## STRAIGHT PLUG

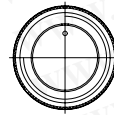
## AMS3106B



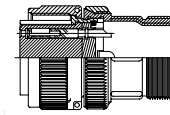
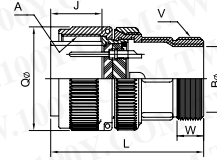
**SOCKET  
INSERTION**



**PIN PLUG**



**PIN**



**SOCKET**

Shell size (ps.1)	Coupling Threads A	Cable end B ± 0.3	Length of connector J ± 0.3	Full length	Outer radius Q ± 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. 1: Shell size and insert arrangement, please refer to page 2-3.

## ANGLE PLUG

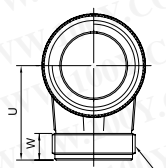
## AMS3108B



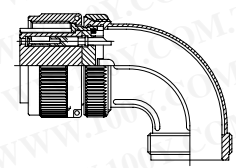
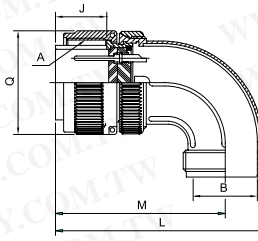
**SOCKET**



**PIN PLUG**



**PIN**



**SOCKET**

Shell size (ps.2)	Coupling Threads A	Cable end B ± 0.3	Length of connector J ± 0.3	Full length L	M ± 0.8	Outer radius Q ± 0.8	U ± 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	28.0	86.5	67.1	43.7	34.9	1-7/16-18UNEF-2A	9.5
28	1-3/4-18UNS-2B	29.8	28.2	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	42.2	100.0	73.4	62.7	51.2	2-18UNS-2A	12.7
48	3-16UN-2B	69.1	65.9	125.4	86.5	81.8	59.1	3-16UN-2A	15.9

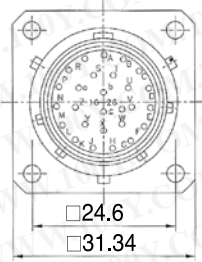
PS. 2: Shell size and insert arrangement, please refer to page 2-3.

## MIL-C-26482G CONNECTOR

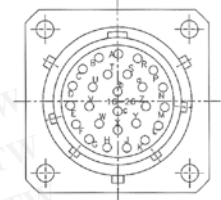
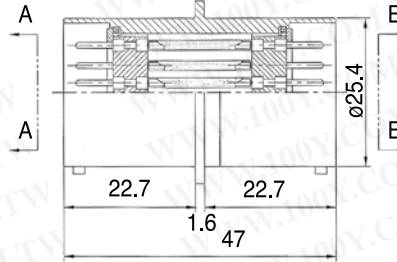
AMS3122E 16-26A



AMS3126A 16-26S

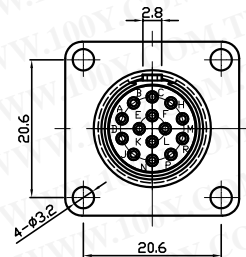
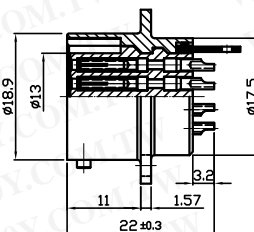
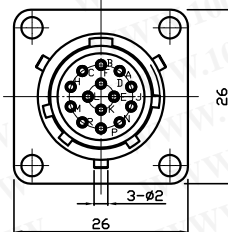


A-A POSITION

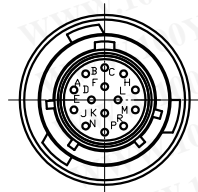
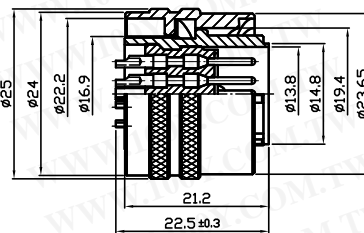
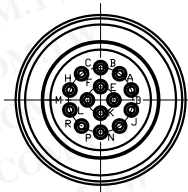


B-B POSITION

AMS3112E 12-14 SE



AMS3116A 12-14 PA



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.

# WPS Water Proof Type Series



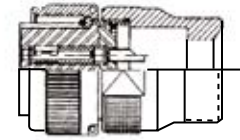
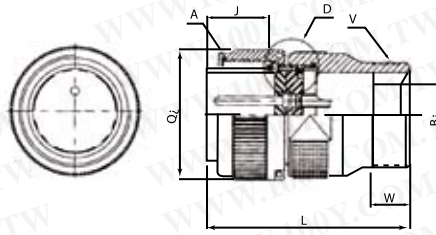
## STRAIGHT PLUG

## WPS3106A

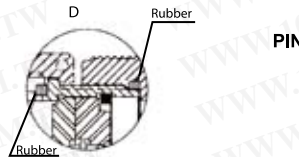


SOCKET INSERTION

PIN PLUG



SOCKET



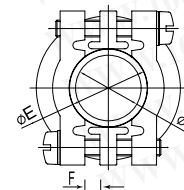
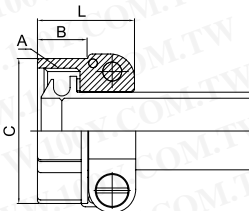
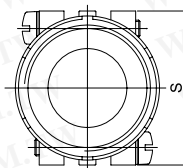
PIN

Shell size (ps.1)	Coupling Threads A	Cable end B ± 0.3	Length of connector J ± 0.3	Full length	Outer radius Q ± 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
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. 1: Shell size and insert arrangement, please refer to page 2-3.

## CABLE CLAMP

## WPS3057-\*A



Item No.	Shell size (ps.1)	Coupling Threads A	B	Tolerable cable C $\varnothing$ ± 0.41	Clamp E	F	Length L ± 0.8	S + 0.8	Content $\varnothing$
WPS3057-4A	10S	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.

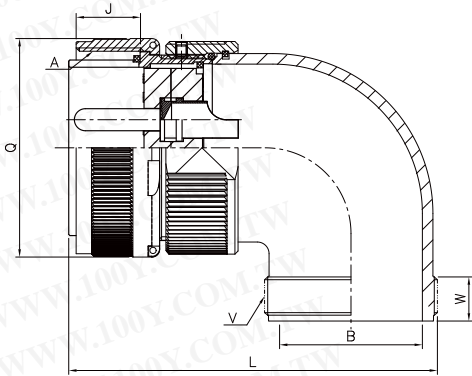
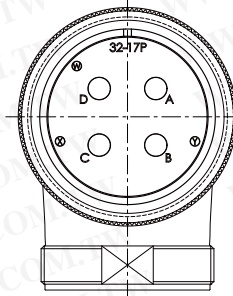
# WPS Series

## RIGHT ANGLE

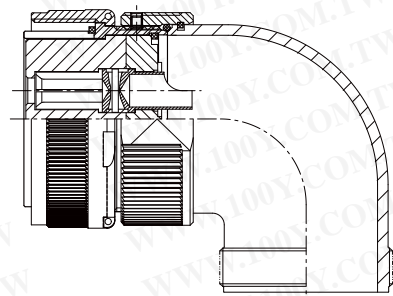
## WPS3108A



**PIN PLUG**



**SOCKET  
INSERTION**



Shell size (ps.1)	Coupling Threads A	Cable end B ± 0.3	Length of connector J ± 0.3	Full length	Outer radius Q ± 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
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. 1: Shell size and insert arrangement, please refer to page 2-3.

# Connector Dimension



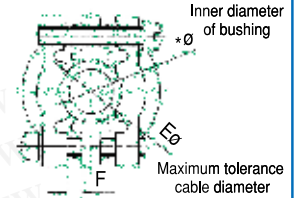
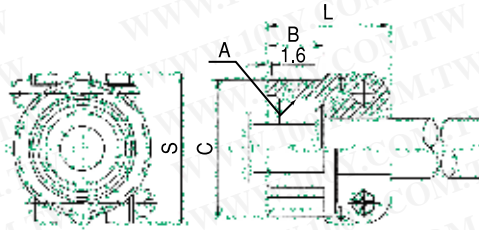
## CABLE CLAMP

### 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 C $\varnothing$ $\pm$ 0.41	Cable Clamp E	F	Length L $\pm$ 0.8	S + 0.8	Content $\varnothing$
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

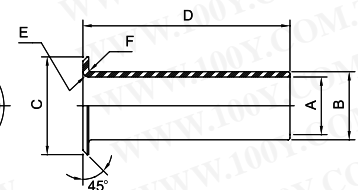
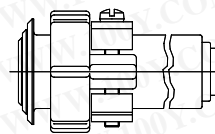
- (a) Please refer to the column of "Suitable shell size". Please select the commodity names suitable for the shell size of the connector. Example: For connector AMS 3106B 18-1P, because its shell size is 18, the commodity name of cable clamp shall be AMS3057-10A
- (b) The maximum size of the cable used in clamping. Please make sure if it is in conformity with the sizes shown in above table. It shall be picked out if it exceeds the sizes as shown in 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

### AMS3420

**AMS3420** 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 size for AMS3420-3240. The bushing with close nature can be repeated for using.



The status of the rubber bushing assembled on AMS3057A cable clamp

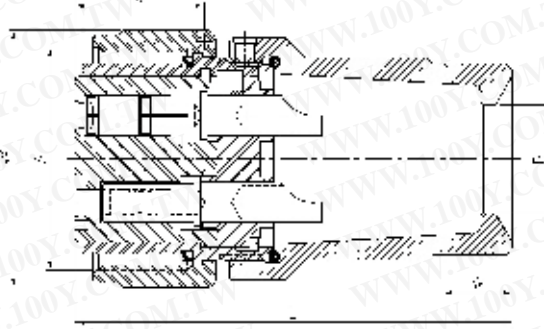
**Example:**  
 In case that AMS3057-12A cable clamp is unable to be clamped while using, it is just because AMS3057-2 is equipped with AMS3420-12 bushing. Thus, for solving such problem, it is merely to replace with small size AMS3420-10 and then to repeat the assembly.

Item No.	Inner Diameter A $\varnothing$ $\pm$ 0.41	Out Diameter B $\varnothing$ $\pm$ 0.41	C $\varnothing$ $\pm$ 0.41	Length D $\pm$ 0.8	Fr, Fr $\pm$ 0.8
AMS3420-3	3.30	5.33	9.63	73.0	0.8
AMS3420-4	5.59	7.67	12.83	69.8	0.8
AMS3420-6	7.92	10.85	15.72	66.7	0.8
AMS3420-8	11.10	14.02	18.90	63.5	1.6
AMS3420-10	14.27	15.62	22.07	60.3	1.6
AMS3420-12	15.88	18.80	27.03	57.2	1.6
AMS3420-16	19.05	23.55	33.38	54.0	1.6
AMS3420-20	23.80	31.50	40.54	50.8	1.6
AMS3420-24	31.75	34.67	46.91	47.6	1.6
AMS3420-28	34.92	41.00	52.96	44.4	1.6
AMS3420-32	41.25	47.35	59.31	41.3	1.6
AMS3420-40	47.60	60.05	72.01	38.1	1.6

# WPS Water Proof Type Series

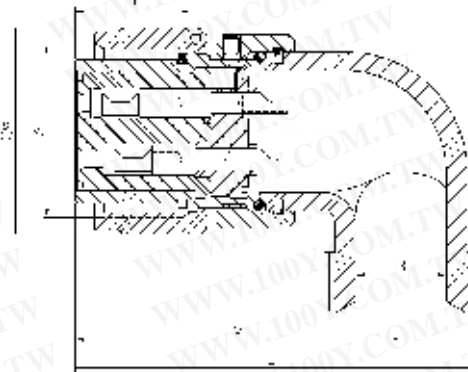


## EUROPEAN STANDARD DIN VDE 0627 WPS3106A 18-10SE WPS3106A 22-22SE



Shell Size (ps.2)	Coupling Threads A	Cable end B ± 0.5	Full length L ± 0.8	M ± 0.8	Outer radius Q ± 0.8	Rear Threads V	Length of Threads over W	Length of Connector J ± 0.1 <sup>or 3</sup>
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

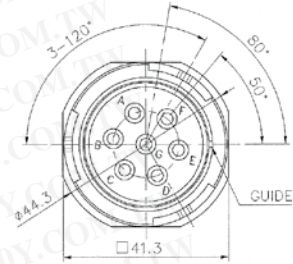
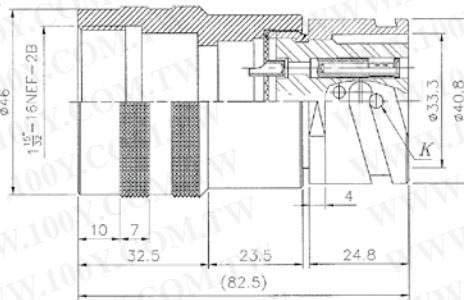


Shell Size (ps.2)	Coupling Threads A	Cable end B ± 0.5	Full length L ± 0.8	M ± 0.8	Outer radius Q ± 0.8	Rear Threads V	Length of Threads over W	Length of Connector J ± 0.13
WPS3108A 18-10SE	1-1/8-18UNEF-2B	15	57.4	-	34.1	1-20UNEF-2A	10	18.7
WPS3108A 22-22SE	1-3/8-18UNEF-2B	17	74	-	40.5	1-3/16-18UNEF-2A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

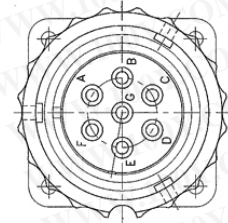
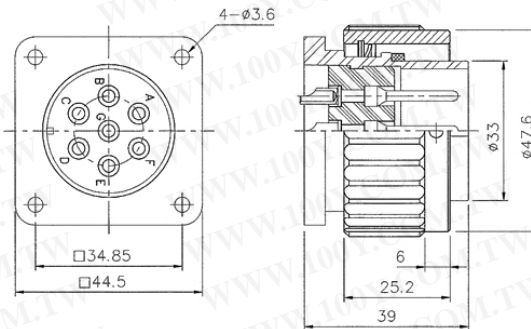
EUROPEAN STANDARD DIN VDE 0627

# WPS Water Proof Type Series

## WPS-2407-LF



## WPS-2407-SM

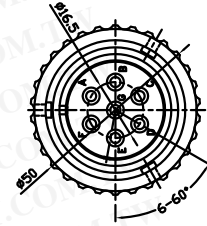
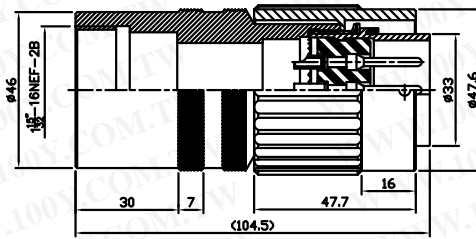


No.	ELECTRICAL SPECIFICATIONS		
1	Operating Voltage	DC: 700V	AC(rms): 500V
2	Withstanding Voltage	AC: 2000V	One minute
3	Test Current	22 Amperes	
4	Insulation Resistance	5000MΩ min. at DC :500V	

# WPS Water Proof Type Series

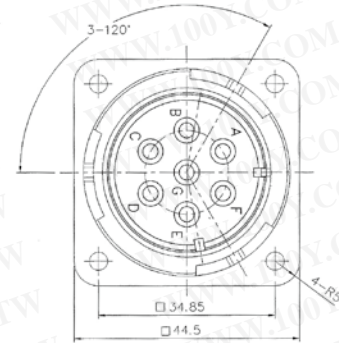
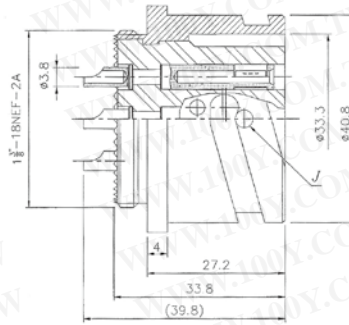
## WPS-2407-LM

IP65



## WPS-2407-SF

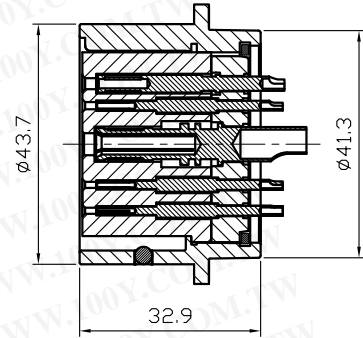
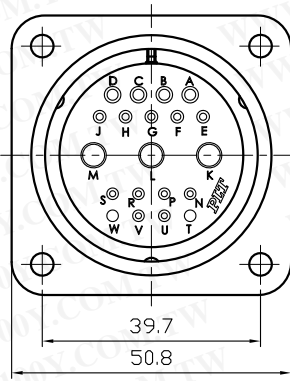
IP65



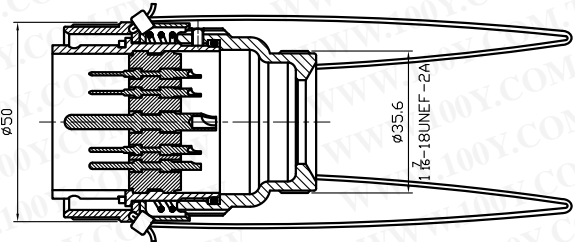
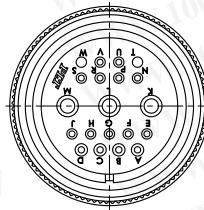
No.	ELECTRICAL SPECIFICATIONS		
1	Operating Voltage	DC: 700V	AC(rms): 500V
2	Withstanding Volage	AC: 2000V	One minute
3	Test Current	22 Amperes	
4	Insulation Resistance	5000MΩ min. at DC :500V	

# WPS Water Proof Type Series

## WPS3102B 28-18S



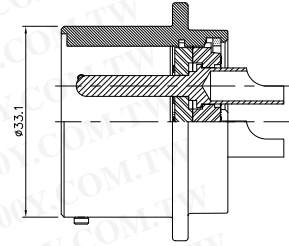
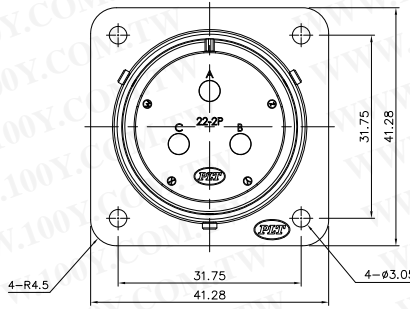
## WPS3106B 28-18S



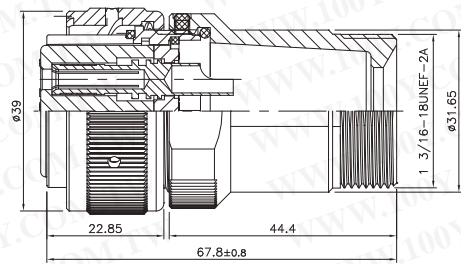
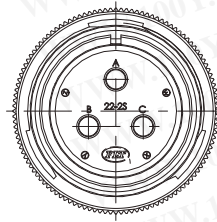
No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : <u>2000</u> V ONE MINUTE
2	Insulation resistance	5000MΩ min. AT DC 500V

# WPS Water Proof Type Series

## WPS3102F 22-2P



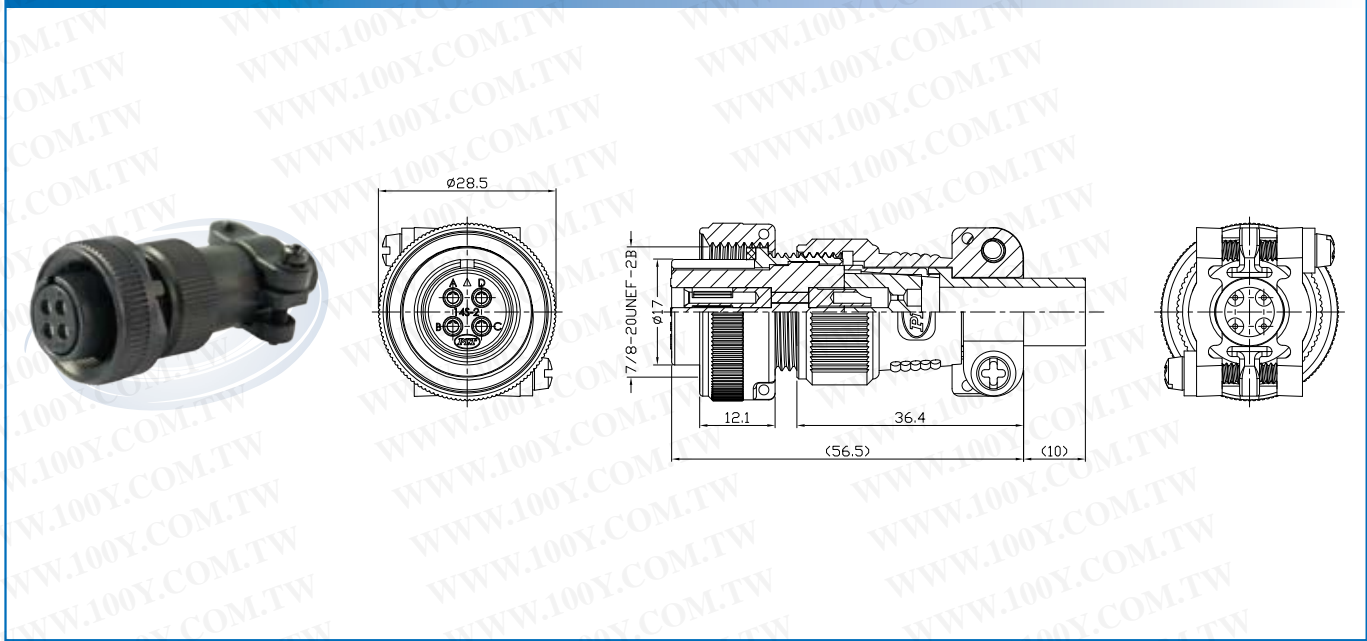
## WPS3106F 22-2S-R



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

# WPS Water Proof Type Series

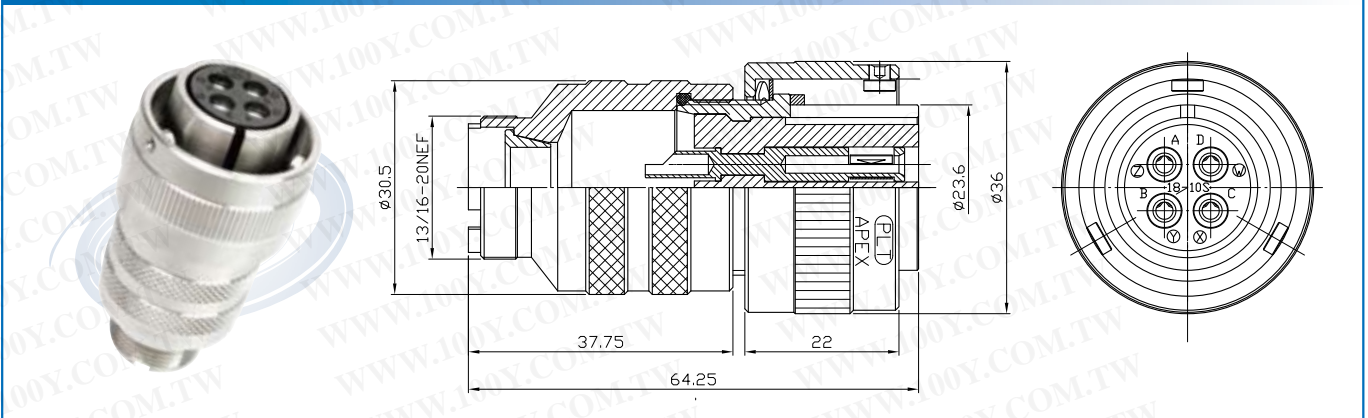
## WPS3106F 14S-2S-R



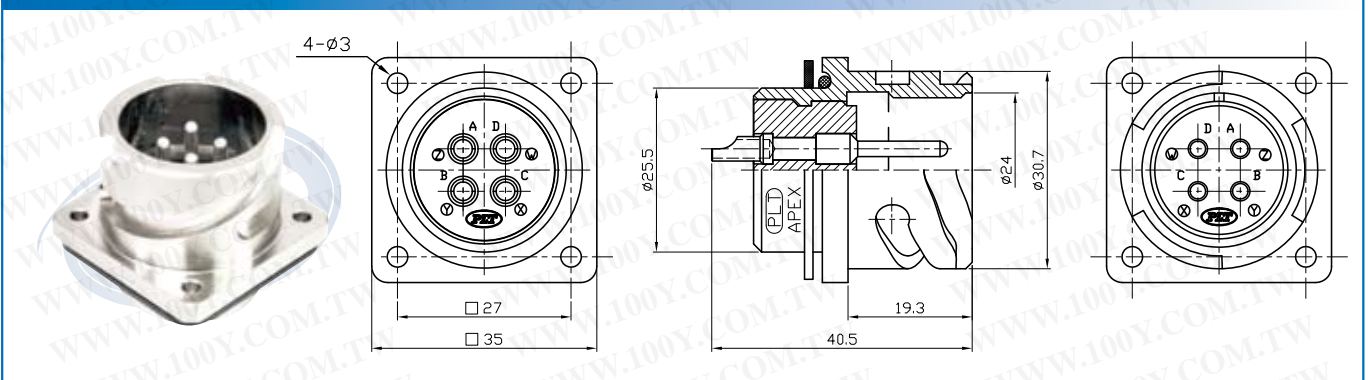
No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : <u>2000</u> V ONE MINUTE
2	Insulation resistance	2000MΩ min.AT DC 500V

# PLT Water Proof Type Series

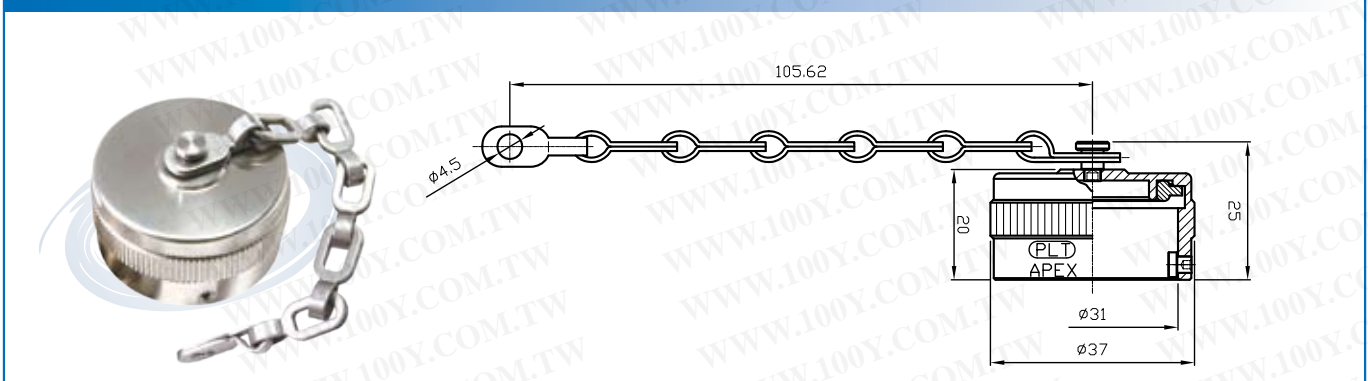
## PLT3106A 18-10SA



## PLT3102A 18-10PA



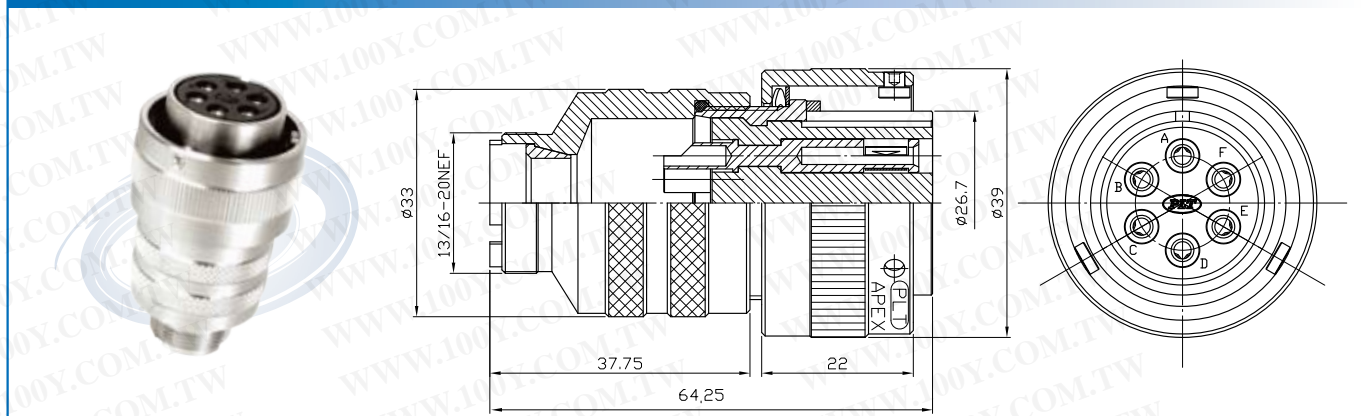
## PLT-18RCa



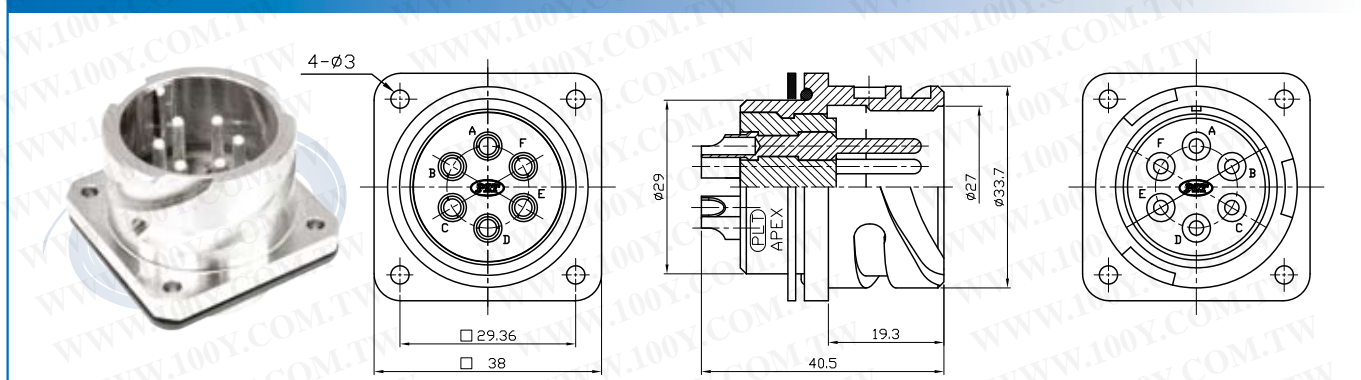
No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : <u>2000</u> V ONE MINUTE
2	Test Current	<u>23</u> AMPERES
3	Insulation resistance	5000MΩ min.AT DC 500V

# PLT Water Proof Type Series

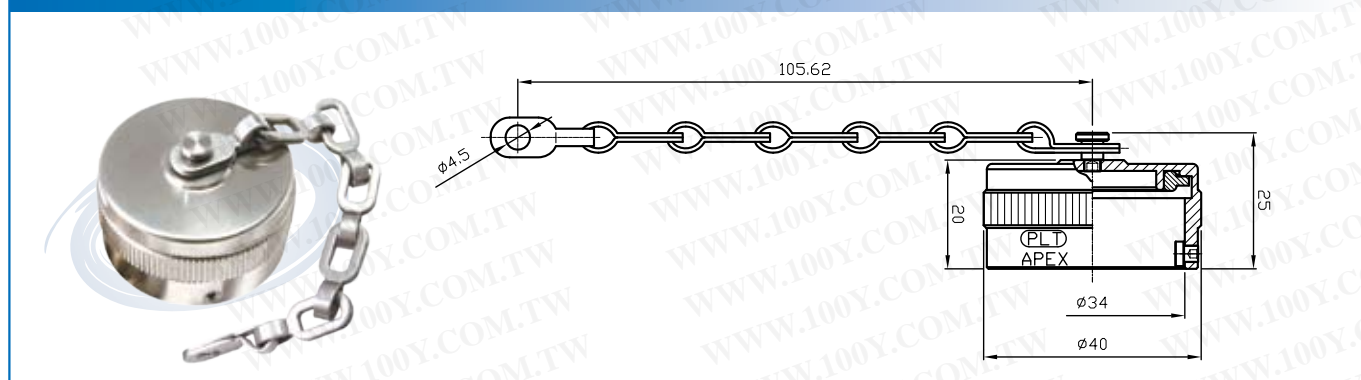
## PLT3106A 20-15SA



## PLT3102A 20-15PA



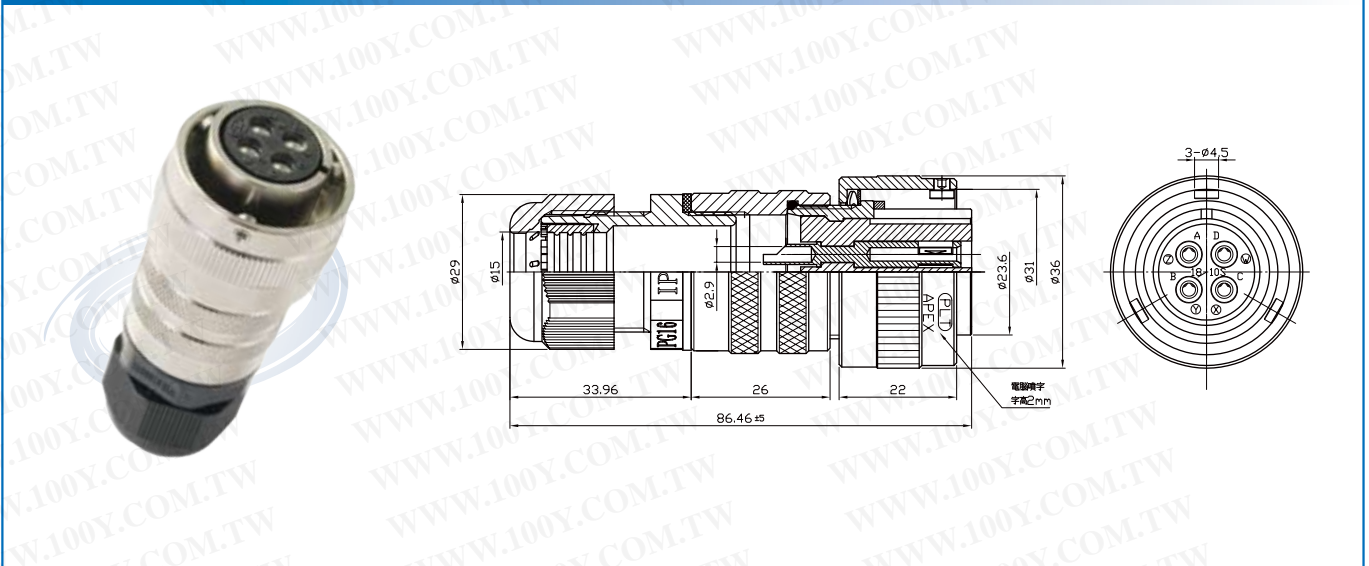
## PLT-20RCa



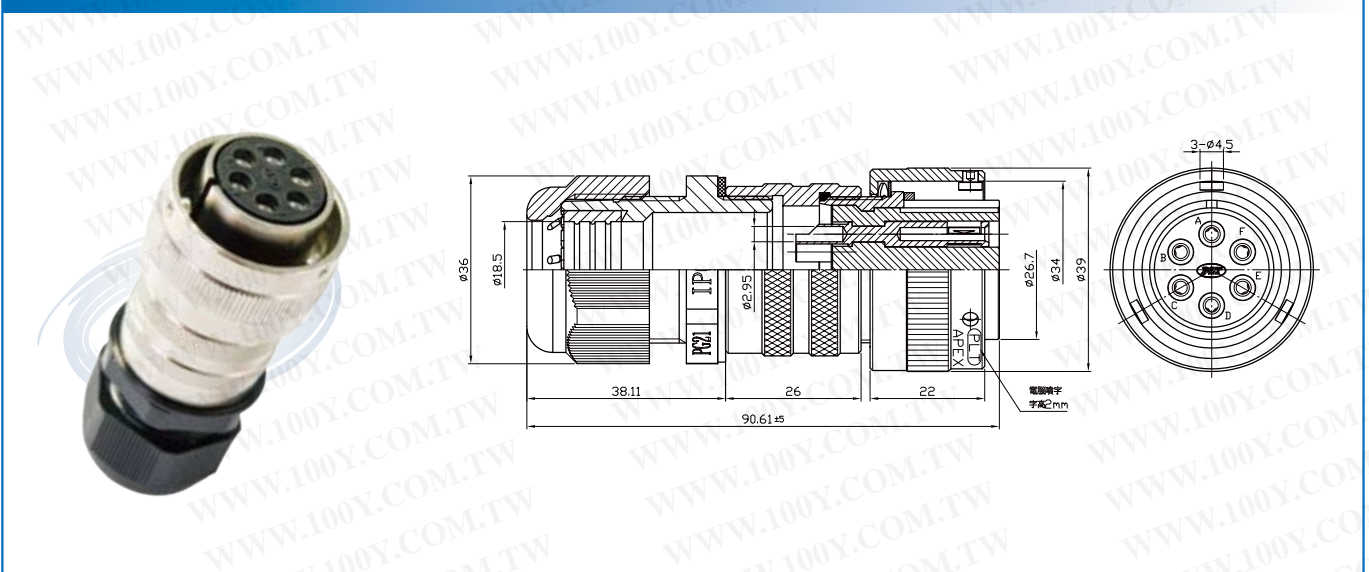
No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : <u>2000</u> V ONE MINUTE
2	Test Current	<u>23</u> AMPERES
3	Insulation resistance	5000MΩ min. AT DC 500V

# PLT Water Proof Type Series

## PLT3106A 18-10SC



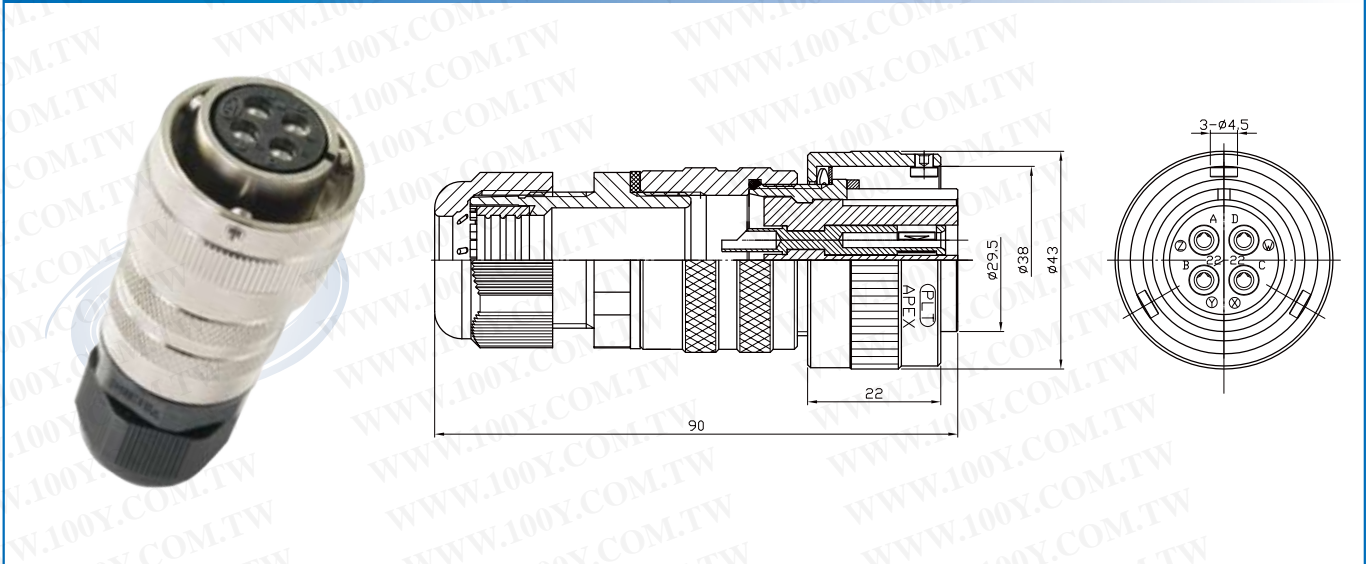
## PLT3106A 20-15SC



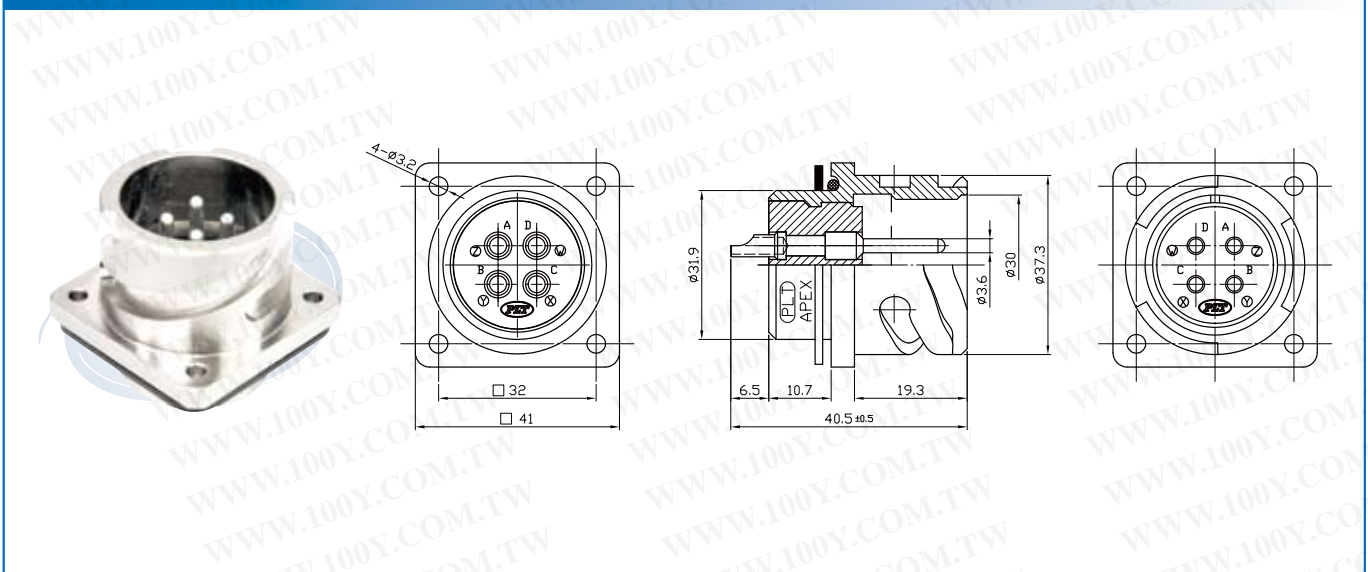
No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : <u>2000</u> V ONE MINUTE
2	Test Current	<u>23</u> AMPERES
3	Insulation resistance	5000MΩ min.AT DC 500V

# PLT Water Proof Type Series **IP67**

## PLT3106A 22-22SC



## PLT3102A 22-22PA

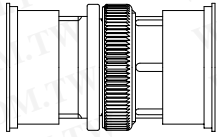


No.	ELECTRICAL SPECIFICATIONS	
1	Withstanding voltage	AC : <u>2000 V</u> ONE MINUTE
2	Test Current	<u>23</u> AMPERES
3	Insulation resistance	5000MΩ min.AT DC 500V

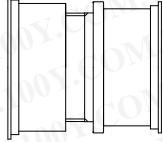
# Connector Dimension

## TYPES AND SIZES REQUIRED

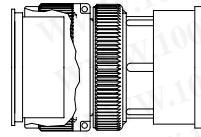
**AMS3101**



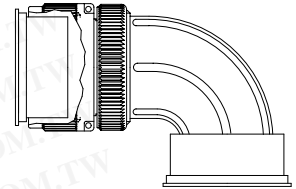
**AMS3102**



**AMS3106**



**AMS3108**



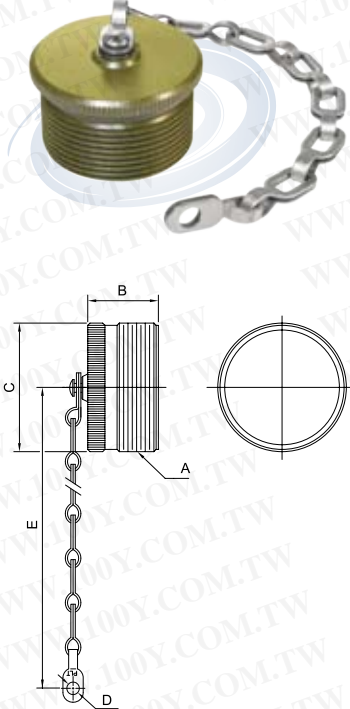
Shell size	Mating End	Termination End	Mating End	Termination End	Mating End	Termination End	Mating End	Termination End
12S	A-097R	A-097R	A-098R		A-098P	A-097R	A-098P	A-097R
14S	A-099R	A-098R	A-099R	A-098R	A-099P	A-098R	A-099P	A-098R
16S, 16	A-101R	A-099R	A-100R	A-099R	A-100P	A-099R	A-100P	A-099R
18	A-103R	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

# AMS Series



## CAP AND CHAIN ASSEMBLY

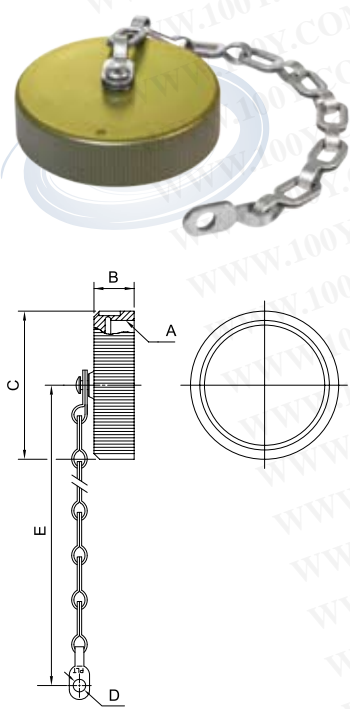
### AMS25042-\*\*D



Part Number	Shell size	Threads A	B	C	D	E
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

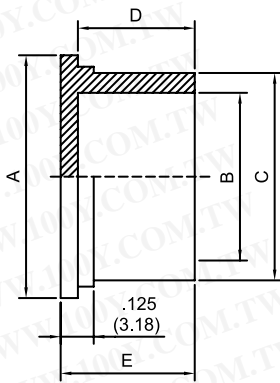
### AMS25043-\*\*D



Part Number	Shell size	Threads A	B	C	D	E
AMS25043-12D	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)

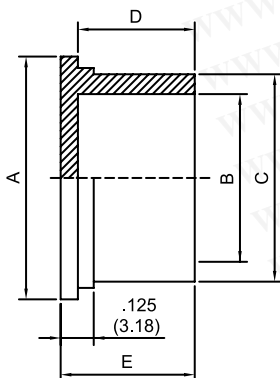
# AMS Series

## 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)