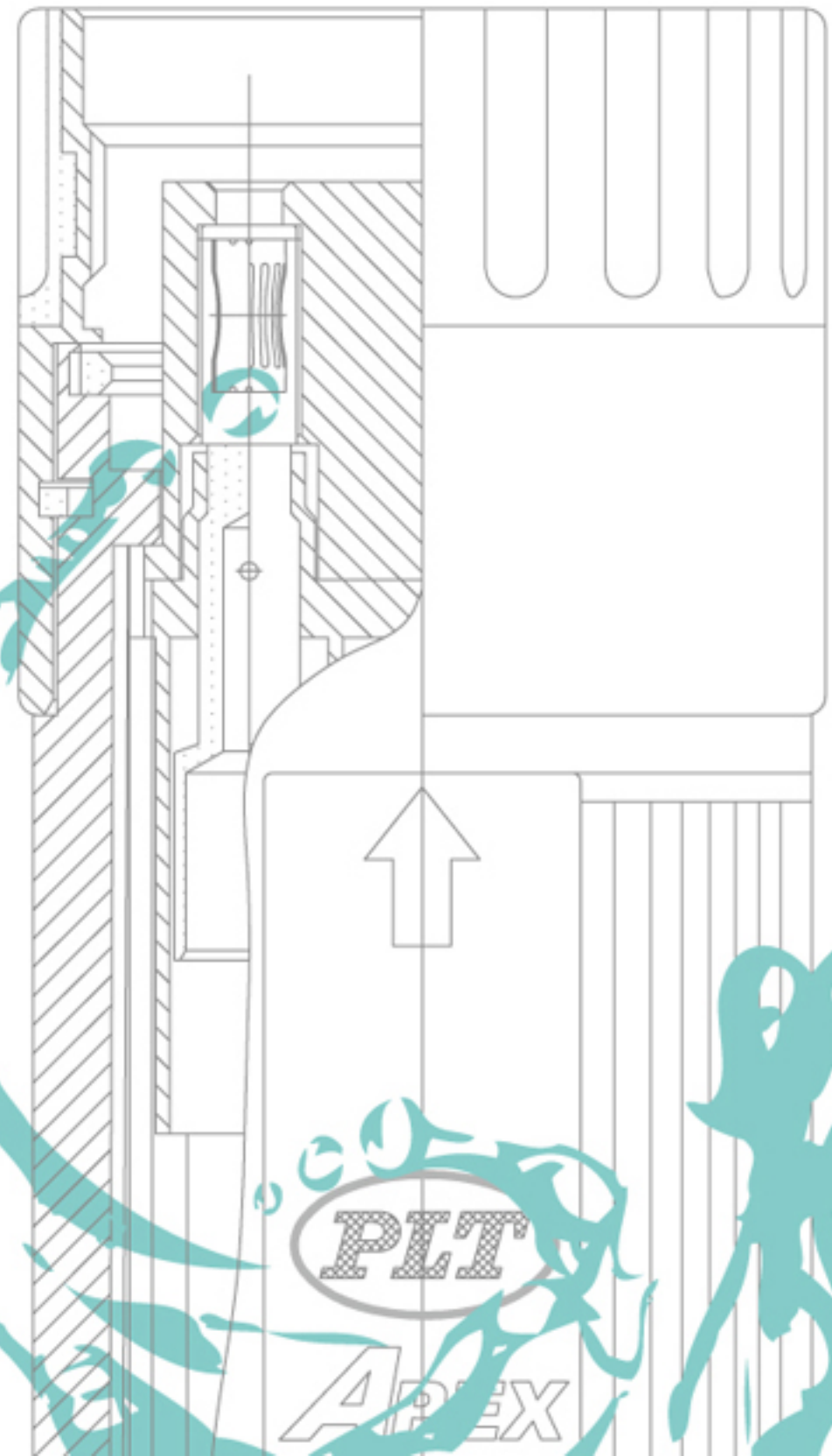


2015 WATERPROOF APEX CONNECTORS



100% Made In Taiwan



Apex connector

錫鋼精密科技
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。

M8 Series



	M-631/M-641/ M-642-PML	8
	M-631/M-641/ M-642-PMD	8
	M-631/M-641/ M-642-PMP	8
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	M-641-RM	8
	M-631/M-641/ M-642-PF	8
	M-631/M-641/ M-642-PFL	8
	M-631/M-641/ M-642-LPFL	8
	M-631/M-641/ M-642-RFL	8
	M-641-PFB-R	8

M8 Series



	WA-637 A	9
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M61 Series



	M-61 ♦ R	10
	M-61 ♦ RA M-61 ♦ RL	10
	M-61 ♦ A	10
	M-61 ♦ DL	10
	M-61 ♦ E	10

M12 Series



 SHELL: ZINC DIE-CASTING (鋅合金壓鑄)	M-D62 ♦ -PM D-CODE	11
	M-D62 ♦ -RFA-R	11

M12 Series



	M12 Series Straight Cable Ass'y M-62 ♦ -PFL	12
	M12 Series Straight Cable Ass'y M-62 ♦ -PML	12
	M12 Series Straight Cable Ass'y M-62 ♦ -PFGL	12
	M12 Series Straight Cable Ass'y M-62 ♦ -PMGL	12
	M12 Series Straight Cable Ass'y M-62 ♦ -PF	12
	M12 Series Straight Cable Ass'y M-62 ♦ -PM	12
	M12 Series Right Angle Cable Ass'y M-62 ♦ -LPFL	13
	M12 Series Right Angle Cable Ass'y M-62 ♦ -LPML	13
	M12 Series Right Angle Cable Ass'y M-62 ♦ A-LPFL	13
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M12 Series



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	M12 Series Receptacle Female M-62 ♦ -RFA	14
	M12 Series Receptacle Female M-62-RCa-R	14
	M12 Series Receptacle Female M-62 ♦ -RFB	14
	M12 Series Receptacle Female M-62 ♦ -RFC	14
	M12 Series Receptacle Male M-62 ♦ -RM	15
	M12 Series Receptacle Male M-62 ♦ -RMA	15
	M12 Series Receptacle Female M-62 ♦ A-GP	15
	M12 Series Receptacle Male M-62 ♦ -RMB M-62 ♦ -RMC	15
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M12 Series

	M12 Series Receptacle Male M-62 ♦ -RMD	16
	M12 Series Receptacle Male M-62 ♦ -RME	16
	M12 Series Receptacle Male M-624/626 ♦ -RME M-625/628 ♦ -RME	16
	M12 Series Receptacle Male M-62 ♦ -RMH	16
 <small>SHELL: STAINLESS STEEL (不鏽鋼)</small>	M12 Series Receptacle Male M-62 ♦ -RMS	16
	M-62 ♦ SP-PF-R	17
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	M-623T5-ADP-R <small>PAT</small>	18
	M-623A-PF <small>PAT</small>	18

654 Series

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WPS Series

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WPM Series

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	WPM16A11-6SL	24
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	WPM-19 ◆ -RF-R WPM-19 ◆ -RM-R	26
	WPM-19 ◆ -RCa-R	26
	WPM-19 ◆ -SPM-R	27
	WPM-19 ◆ -SPF-R	27
	WPM-20 ◆ -PM-R WPM-20 ◆ -PF-R WPM-20 ◆ -RF-R WPM-20 ◆ -RM-R	28

WPM Series



	WPM-20 ◆ -WGPM2.5-R WPM-20 ◆ -WGPF2.5-R	28
	WPM-20 ◆ -RCa-R	28
	WPM-20 ◆ -SPM-R	29
	WPM-20 ◆ -SPF-R	29
	WPM-20 ◆ -WSPM2.5-R WPM-20 ◆ -WSPF2.5-R	29
	WPM-21 ◆ -RF ^{PAT} WPM-21 ◆ -PM	30
	WPM-21 ◆ -PL <small>SHELL: STAINLESS STEEL (不鏽鋼)</small>	31
	WPM-21 ◆ -PF	31
	WPM-21 ◆ -RM	31
	WPM-223-PML ^{PAT}	32


WPM Series

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	WPM-223-RF WPM-223-RFA	32
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	WPM-24 ♦ -PM-R	34

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	WA-715A	35
	WA-738A	35
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PLP Series

	PLP-123-P9 (D-SUB)	36
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PLP Series

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	PLP-138AD8A-R (RJ-45)	38

PLS Series

	PLS-28 ♦ -PFD PLS-28 ♦ -RM-R	39
	PLS-28 ♦ -RMA PLS-28 ♦ -PFA <small>SHELL: STAINLESS STEEL (不鏽鋼)</small>	39

WPS Series

	WPS-2407-LF WPS-2407-SF	40
	WPS-2407-LM WPS-2407-SM	40

N Series

	N-301P-SXGT	41
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- IEC/EN 60529 為現今國際上最常引用作為產品外殼機構保護等級的規範，故也稱為“國際保護等級，IP Code”。
- 業界常用之同等標準：JIS C0920/ CNS 14165
 - 》IP Code的意義，例 IP 54CH
 - 第一個特色數字碼(2): 可以是0,1,2,3,4,5,6 or X，代表防止固態異物進入(防塵)和危險零件碰觸的能力等級，X表示該字碼未予以驗證。
 - 第二個特色數字碼(3): 可以是0,1,2,3,4,5,6,7,8 or X，代表防止水進入(防水)的能力等級，X表示該字碼未予以驗證。

■ IEC/EN 60529, IP碼構成

構成要件	IP 字母	對機殼設備之保護 (Equipment)	對人體之保護(Persons), 防止觸及危險零件的能力等級	測試條件說明
第一字碼 防止固態異物進入 的能力等級	0	無保護	無保護	
	1	直徑050mm球體	手背	
	2	直徑012.5mm球體	手指	
	3	直徑02.5mm金屬棒	工具	
	4	直徑01.0mm金屬線	金屬線	
	5	防塵型，防止金屬線接觸危險部位，容許若干程度之粉塵進入	金屬線	2 Kg 之滑石粉於 1m ³ 空間內攪動
	6	塵密型，防止金屬線接觸危險部位，完全不容許粉塵進入	金屬線	2 Kg 之滑石粉於1m ³ 空間內攪動，產品施加負壓
第二字碼 防止水進入 的能力等級	0	無保護		
	1	垂直水滴		流量：1mm/min, 駐留10分鐘
	2	滴水(15度傾斜角)		流量：3mm/min, 駐留2.5分鐘 / 每方向共4方向
	3	灑水		流量：0.07L/min/ 每孔(孔數依擺動管大小來定義); 噴水角度: ±60°; 試件於5分鐘後水平旋轉90° 駐留10分鐘
	4	濺水		流量：0.07L/min/ 每孔(孔數依擺動管大小來定義); 噴水角度: ±180°; 試件於每分鐘水平旋轉一圈，駐留10分鐘
	5	噴水		噴水口徑6.3mm，於 2.5~3 米處以 12.5L/min 流量持續噴水3分鐘以上
	6	強力噴水		噴水口徑12.5mm，於2.5~3米處以 100L/min 流量持續噴水3分鐘以上
	7	暫時性浸沒		物件高度小於850mm時，需低於水面 1000mm，物件高度大於 850mm時，需低於水面150mm，持續浸沒30分鐘
	8	持續性浸沒		買賣雙方協議



ORDERING INFORMATION

M-624-PML-R

RoHS COMPLIANT 歐盟環保指令

WIRE LENGTH 線長

CONNECTOR TYPE 連接器類型

NUMBER OF CONTACTS Pin 數

MODEL SERIES 機種系列

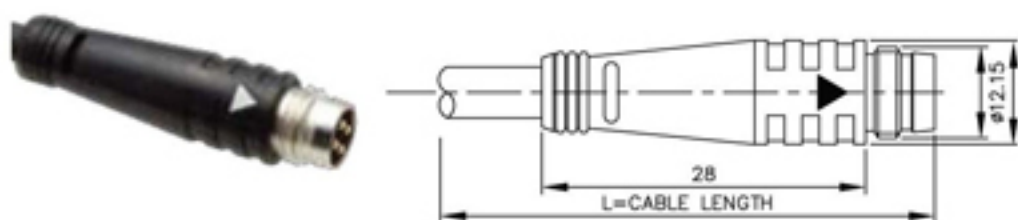
NAME OF SERIES 系列名稱

MATERIAL & FINISH

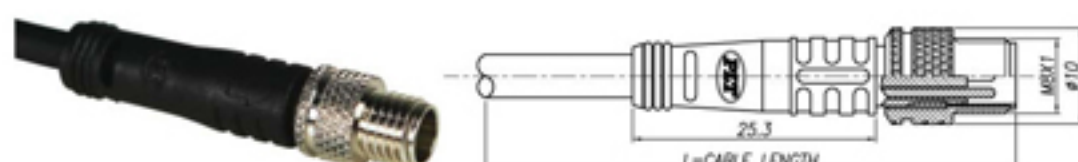
P:PLUG	R:Receptacle	F:Female	M:Male
插頭	插座	導梢	導針

Description	Material	Finish
Shell / 外殼 本體	* Brass / 銅 * Stainless steel / 不鏽鋼 * Zinc Die-Casting / 鋅合金壓鑄 * Aluminum alloy / 鋁合金壓鑄	* Chrome-plated / 鉻電鍍 * Gold-plated / 金電鍍 * Nickle-plated / 鎳電鍍 * Silver-plated / 銀電鍍
Insulator / 絕緣體	* Bakelite / 電木 * Delrin / 塑鋼 * Nylon / 耐龍	
Contact / 接觸體	* Brass / 銅 * P.Brass / 磷銅 * B.Brass / 鈹銅	* Gold-plated / 金電鍍 * Silver-plated / 銀電鍍 * Nickle-plated / 鎳電鍍

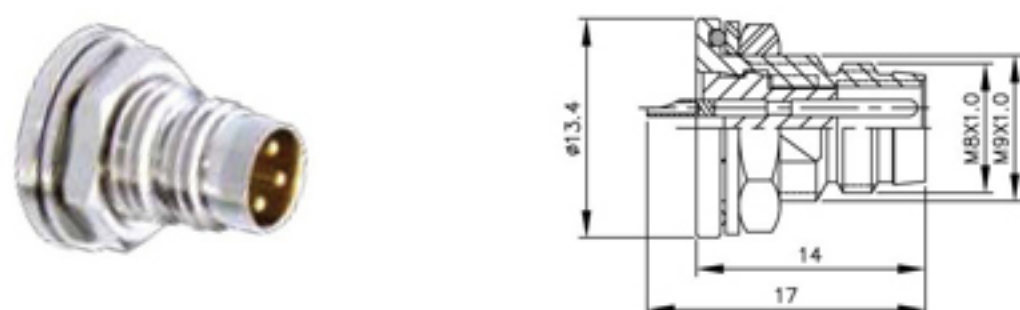
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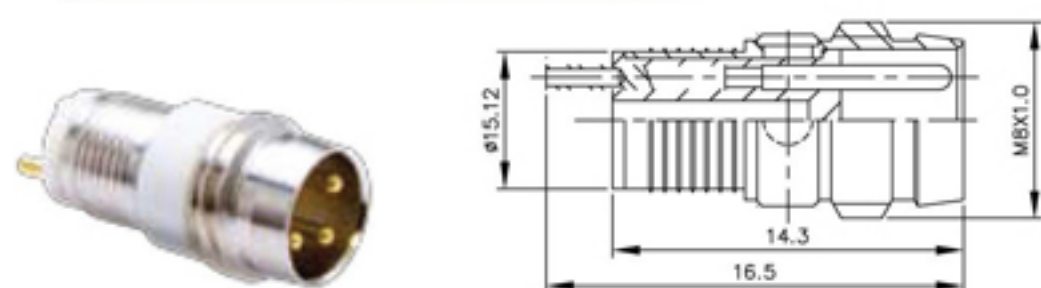
M-631/M-641/M642-PMD



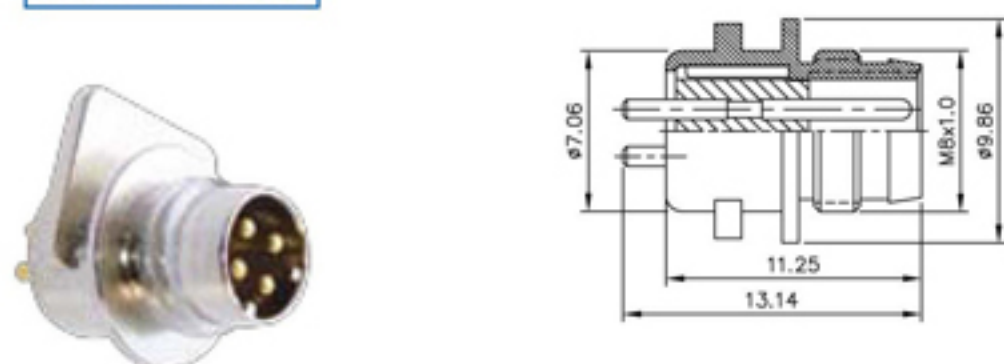
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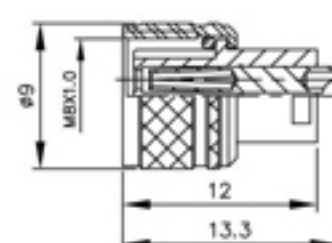
M-631/M-641/M642-PM



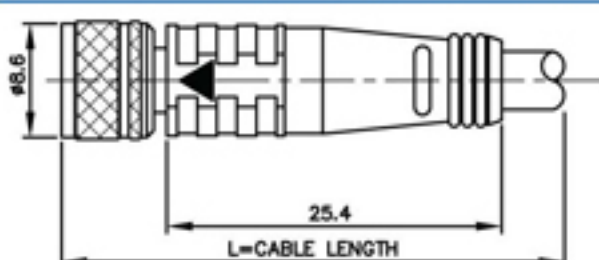
M-641-RM



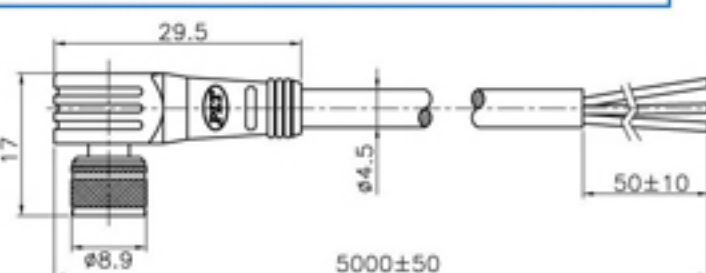
M-631/M-641/M642-PF



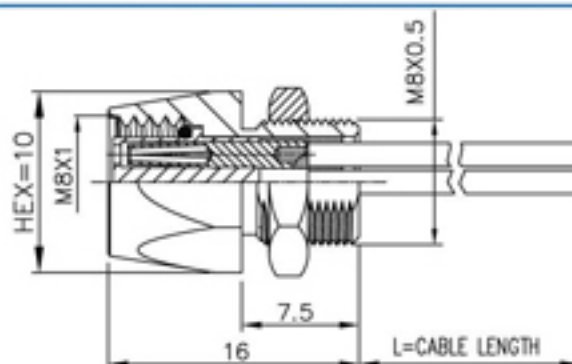
M-631/M-641/M642-PFL



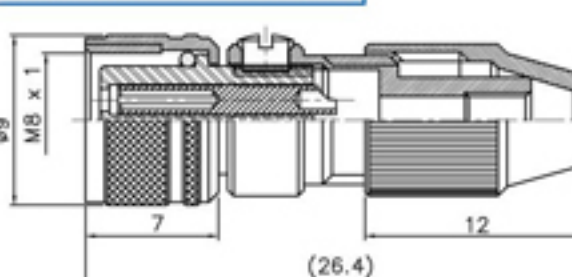
M-631/M-641/M642-LPFL



M-631/M-641/M642-RFL



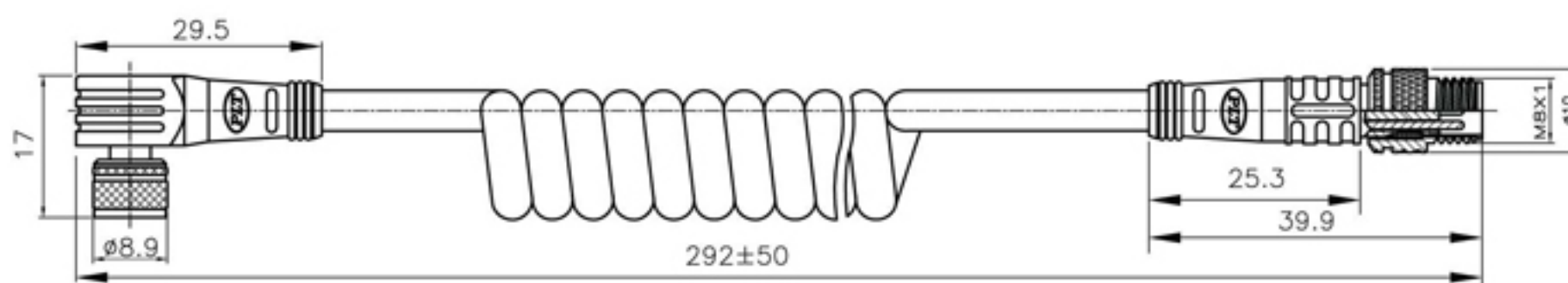
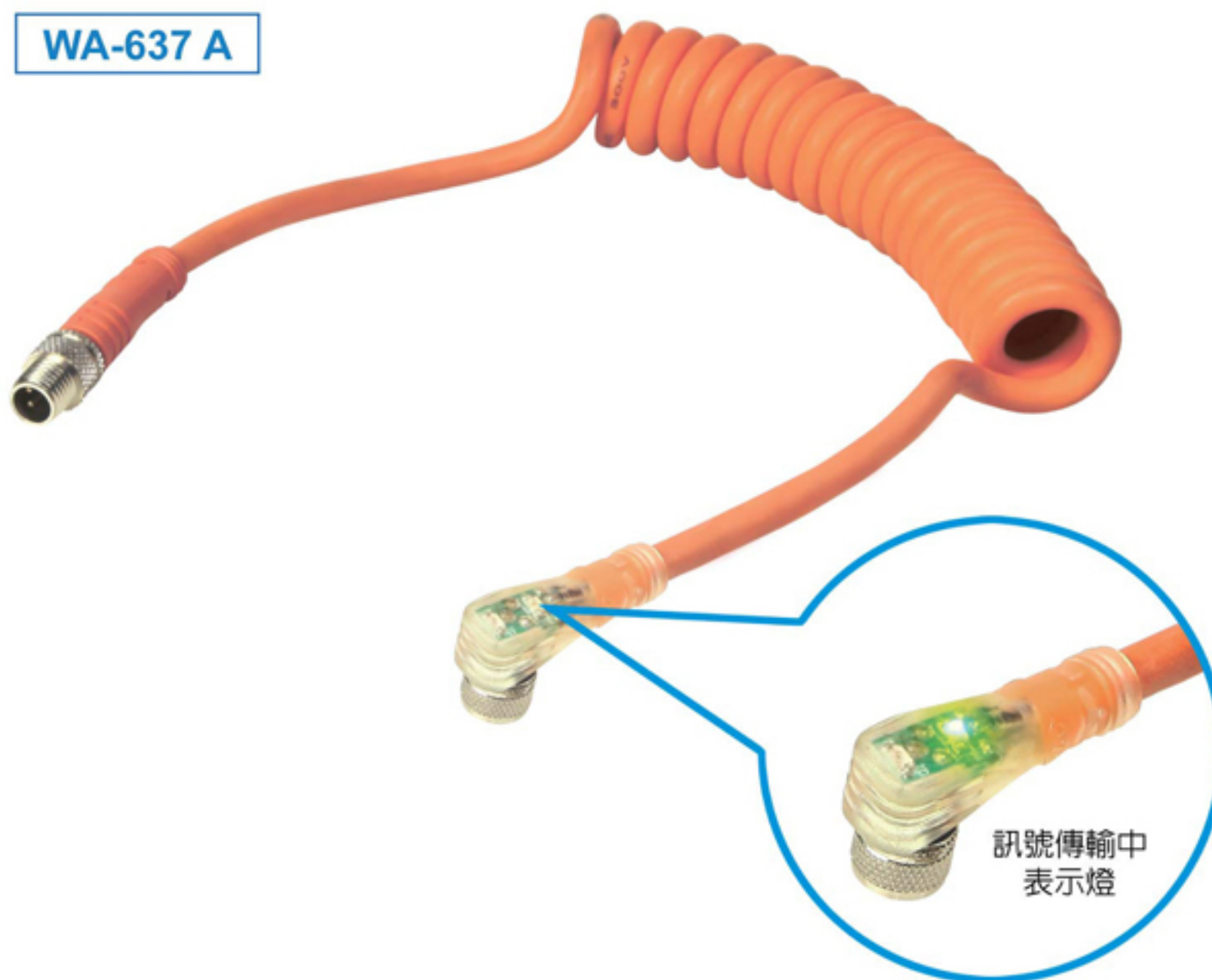
M641-PFB-R



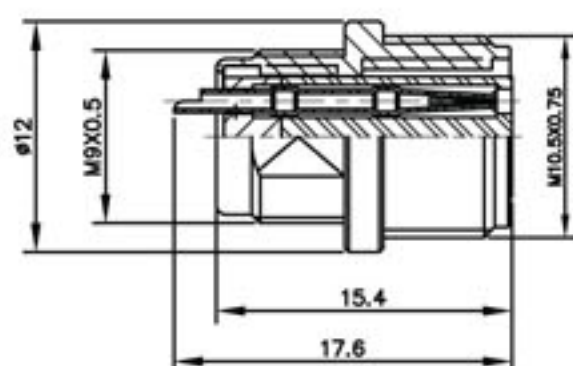
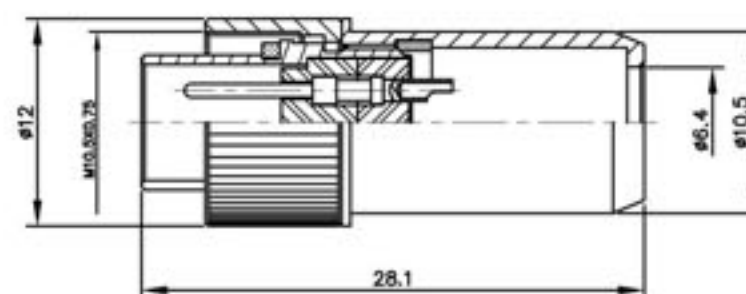
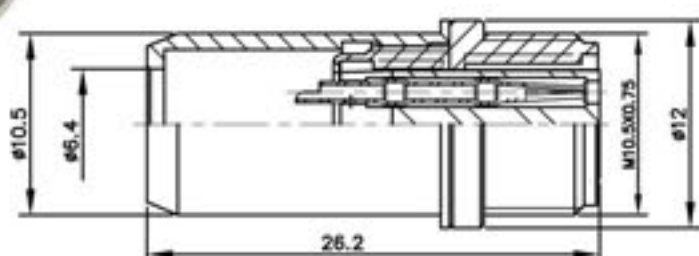
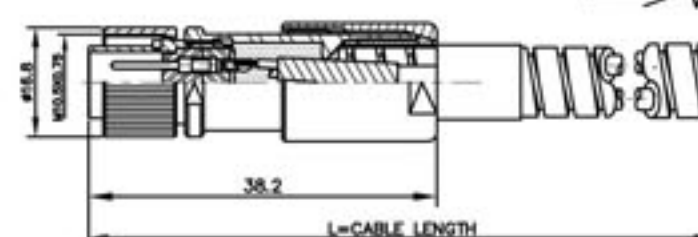
❖ No. of contacts 接點數目

Contacts Configuration 接點方位	31	41	42			
Rated current / voltage 額定電流／電壓	1A 100V	1A 100V	1A 100V			
Insulation resistance (MΩ MIN.) at DC 500V / 絕緣阻抗	300	300	300			
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3			
Solder inter diameter 焊孔內徑	1	1	1			

WA-637 A



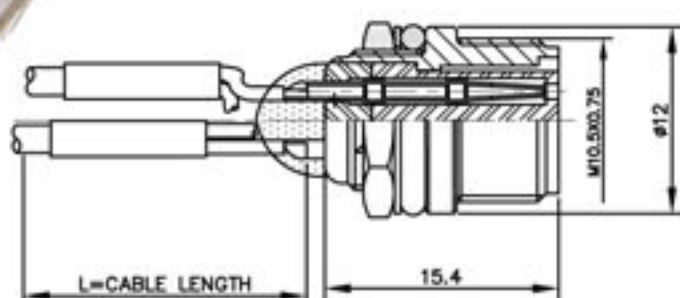
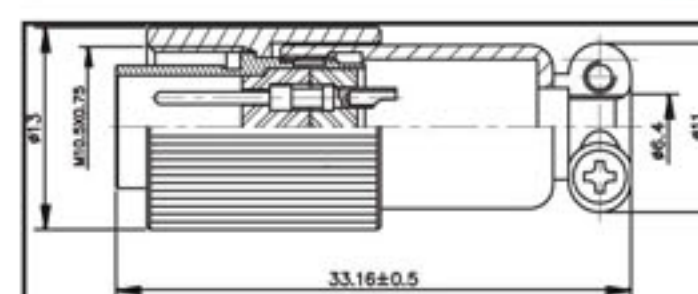
◆ No. of contacts 接點數目	31	41	42			
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	1A 100V	1A 100V	1A 100V			
Insulation resistance (MΩ MIN.) at DC 500V / 絕緣阻抗	300	300	300			
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3			
Solder inter diameter 焊孔內徑	1	1	1			


M-61 R

M-61 A

M-61 RA

M-61 DL


WIRE LENGTH 線材長度


M-61 RL

WIRE LENGTH 線材長度


M-61 E


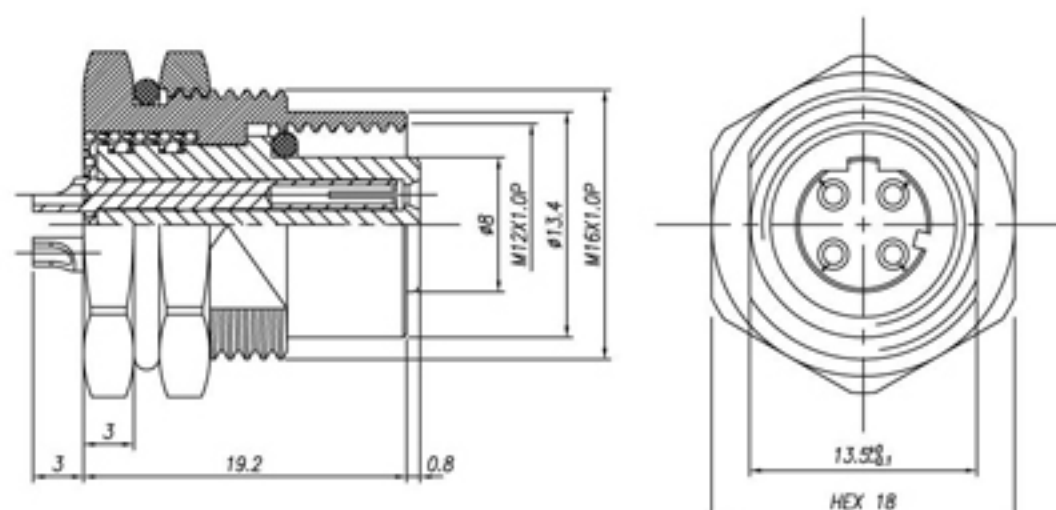
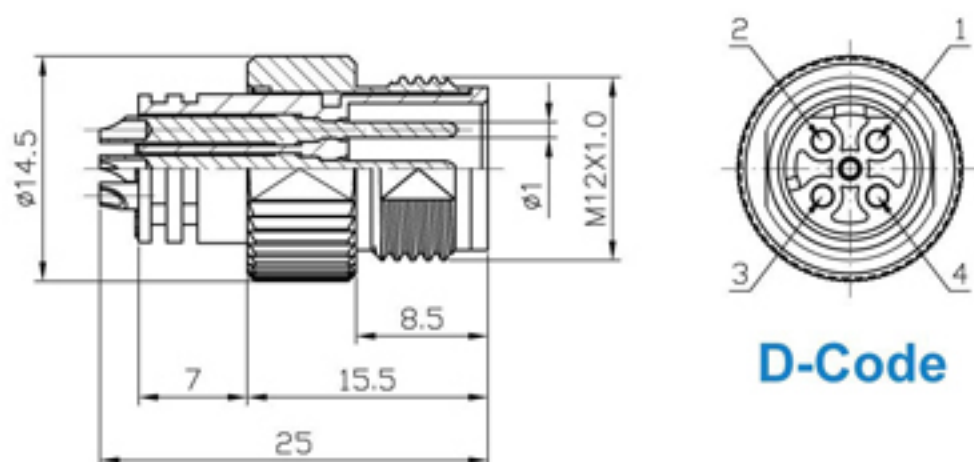
❖ No. of contacts 接點數目	2	3	4	5	
Contacts Configuration 接點方位					
Rated current / voltage 額定電流／電壓	1A 100V	1A 100V	1A 100V	1A 100V	
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	AC 300V DC 500V	AC 300V DC 500V	AC 300V DC 500V	AC 300V DC 500V	
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	200	200	200	200	
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	3	
Solder inter diameter 焊孔內徑	0.9	0.9	0.9	0.9	



M-D62-PM



M-D62-RFA-R

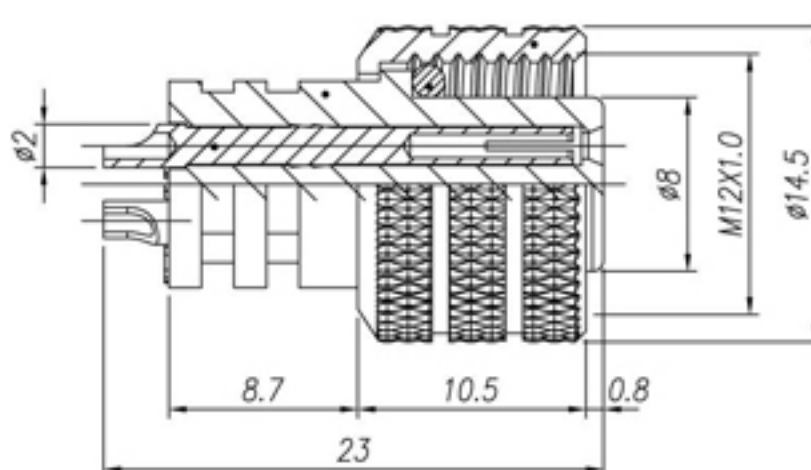
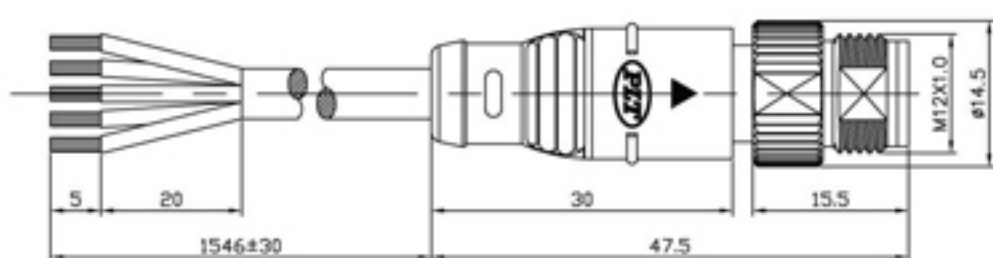


M-D62-PML



M-D62-PF-R

SHELL:ZINC DIE-CASTING (鋅合金壓鑄)

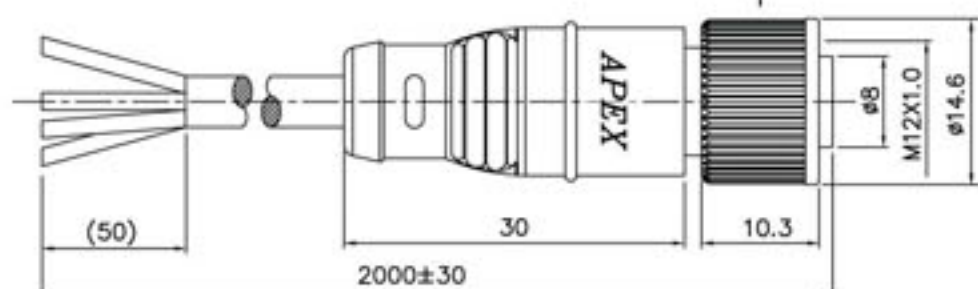


◆ No. of contacts 接點數目	4					
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	3A-150V MAX. 5ma-5V MIN.					
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1000					
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100					

M-62◆-PFL

WIRE LENGTH
線材長度

Cap Material : Al Alloy
固定帽材質：鋁合金



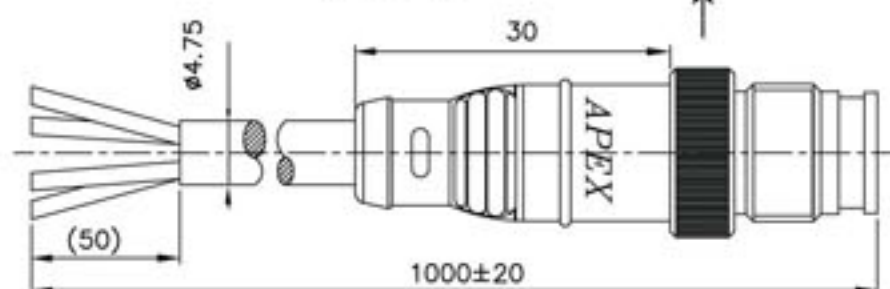
L	WIRE LENGTH
1	1M
2	2M
3	3M
4	4M
5	5M



M-62◆-PML

WIRE LENGTH
線材長度

Cap Material : Brass
固定帽材質：銅



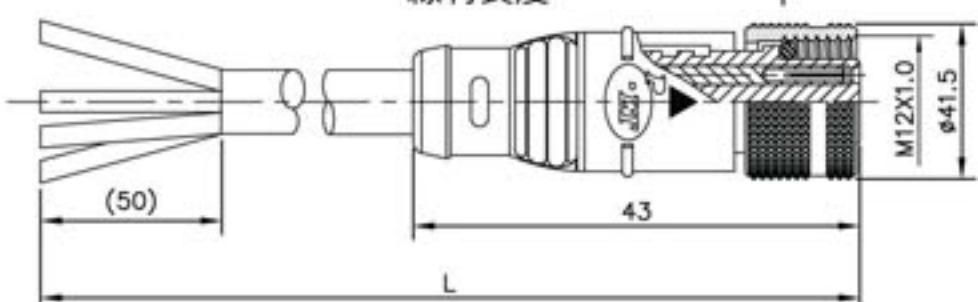
L	WIRE LENGTH
1	1M
2	2M
3	3M
4	4M
5	5M



M-62◆-PFGL

WIRE LENGTH
線材長度

Cap Material : Brass
固定帽材質：銅



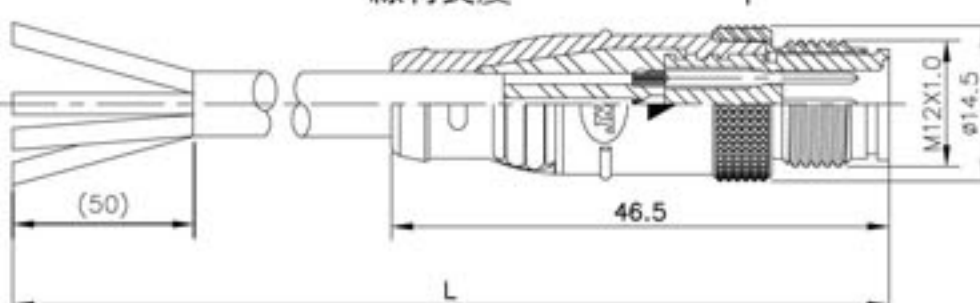
L	WIRE LENGTH
1	1M
2	2M
3	3M
4	4M
5	5M



M-62◆-PMGL

WIRE LENGTH
線材長度

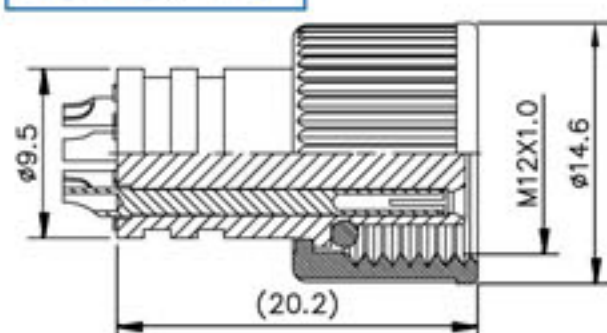
Cap Material : Brass
固定帽材質：銅



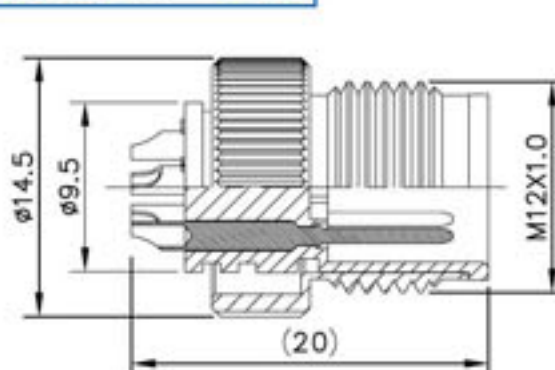
L	WIRE LENGTH
1	1M
2	2M
3	3M
4	4M
5	5M



M-62◆-PF



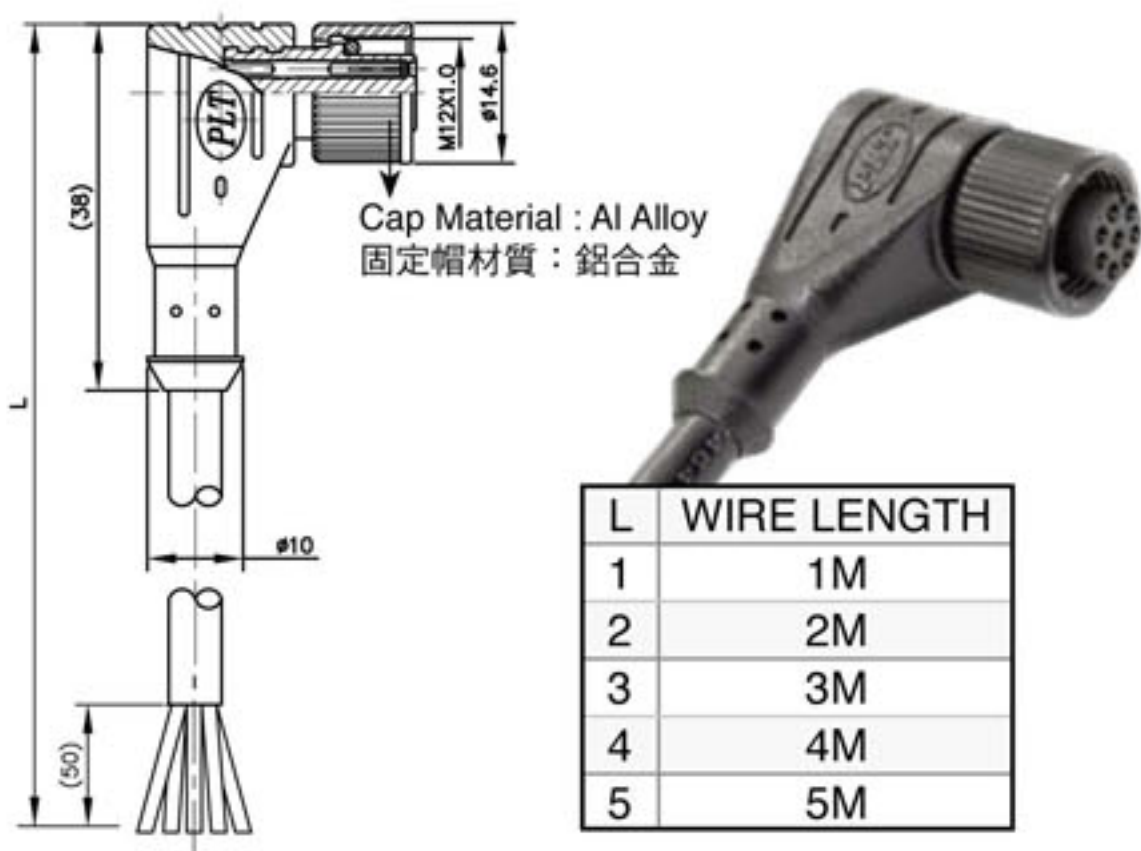
M-62◆-PM



◆ No. of contacts 接點數目	2	3	3A	4	5	6	8
Contacts Configuration 接點方位							
Rated current / voltage 額定電流／電壓	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	300	300	500	300	300	300	300
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100	100	100	100	100	100	100
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	3	3	3	3
Solder inter diameter 焊孔內徑	1.0	1.0	1.0	1.0	1.0	1.0	1.0

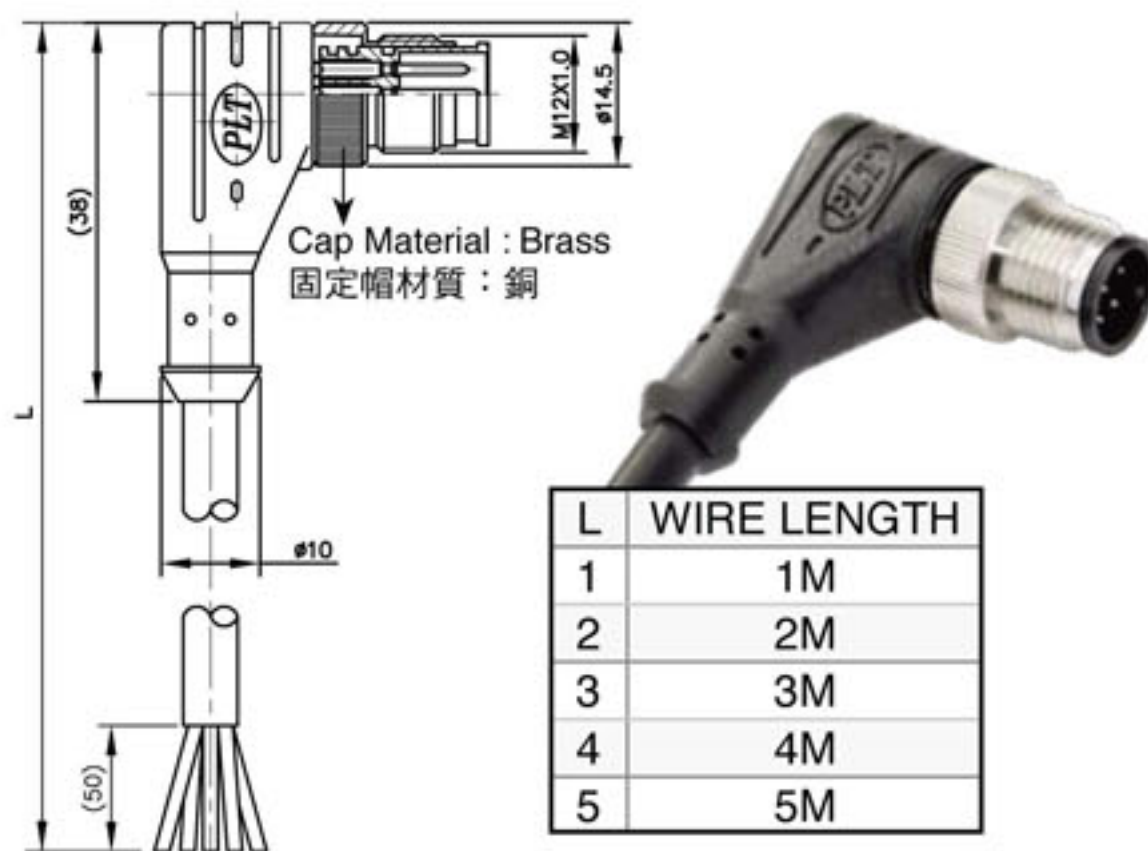
M-62❖-LPFL

WIRE LENGTH 線材長度



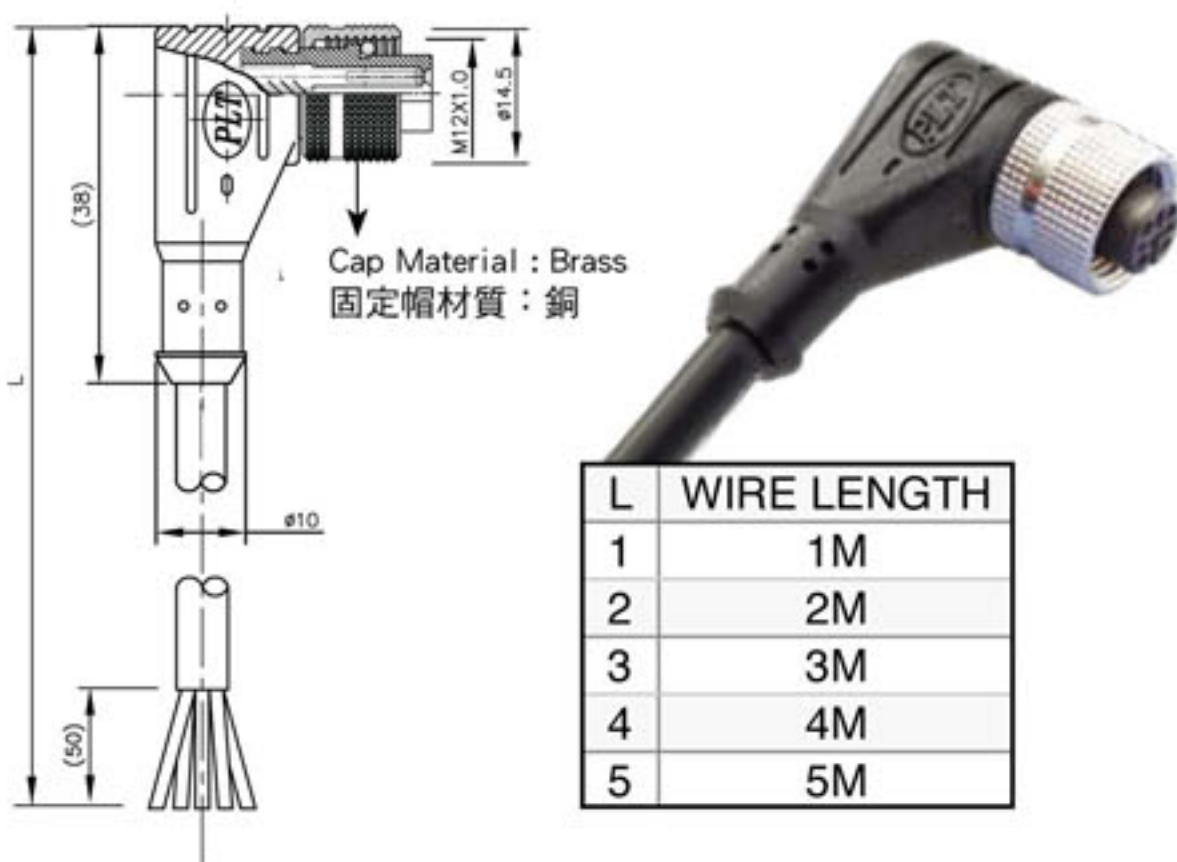
M-62❖-LPML

WIRE LENGTH 線材長度



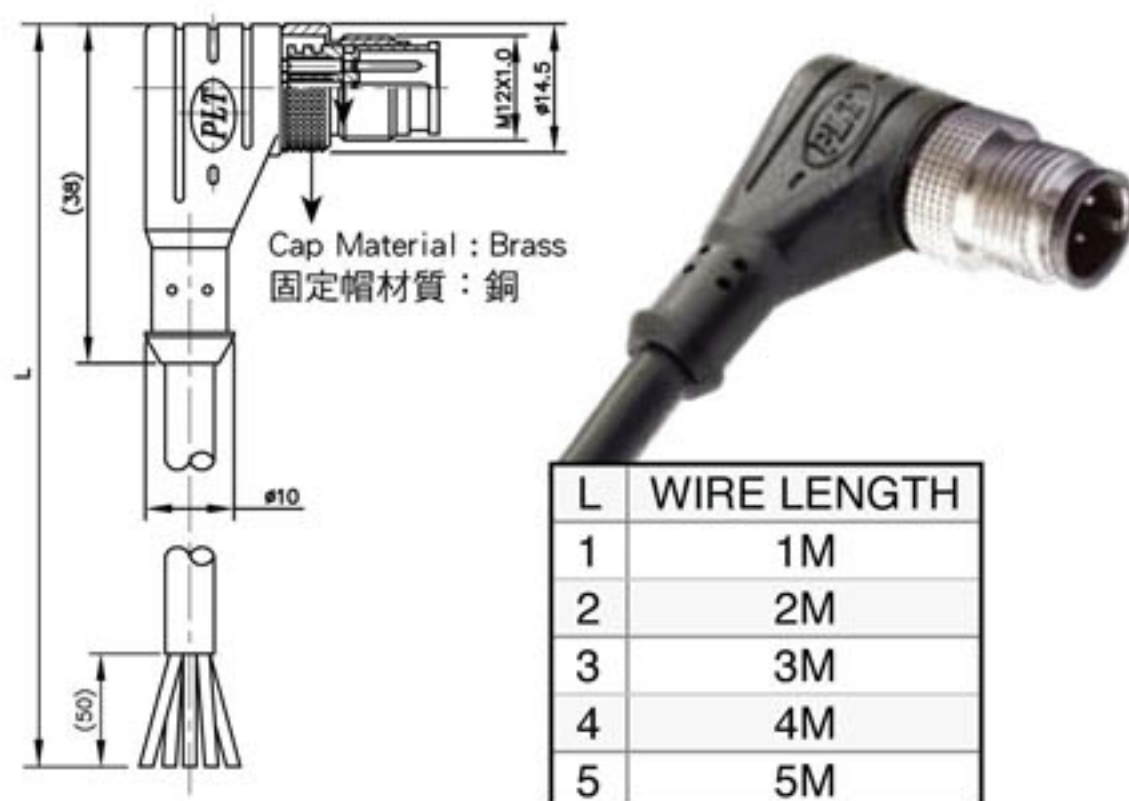
M-62❖-A-LPFL

WIRE LENGTH 線材長度



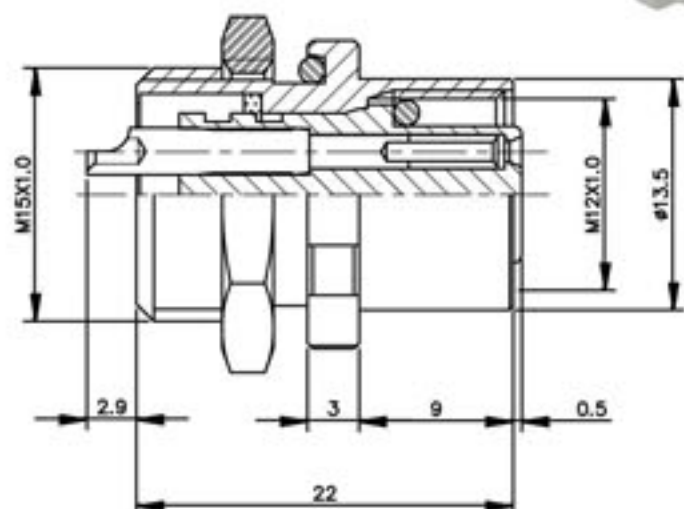
M-62❖ A-LPML

WIRE LENGTH 線材長度

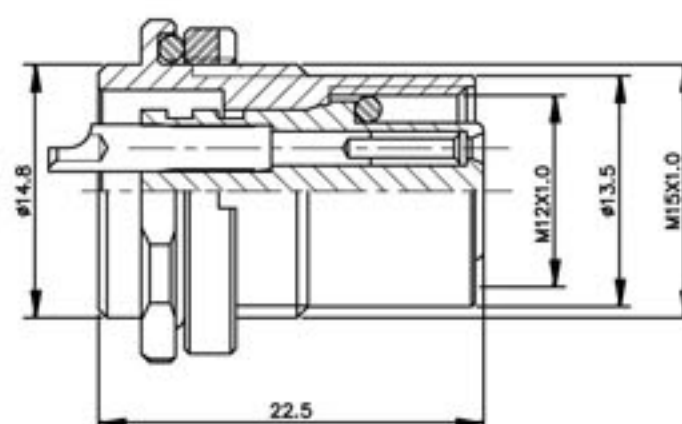


❖ No. of contacts 接點數目	2	3	3A	4	5	6	8
Contacts Configuration 接點方位							
Rated current / voltage 額定電流／電壓	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	300	300	500	300	300	300	1500
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100	100	100	100	100	100	100
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	3	3	3	3
Solder inter diameter 焊孔內徑	1.0	1.0	1.0	1.0	1.0	1.0	1.0

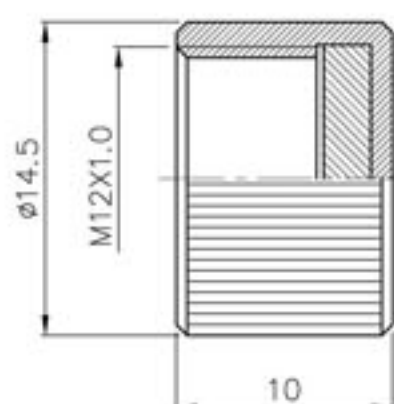
M-62❖-RF



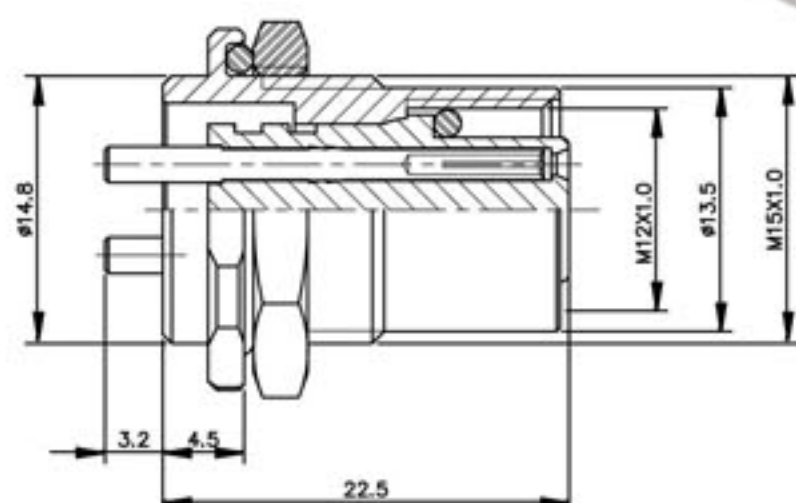
M-62❖-RFA



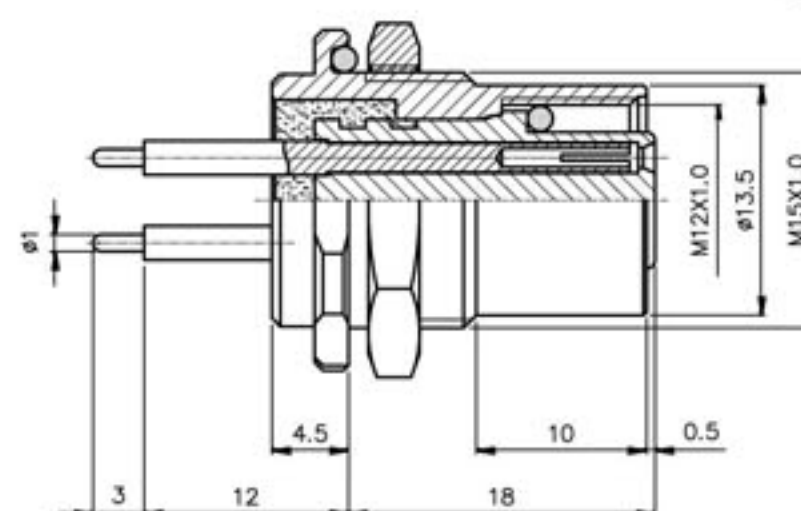
M-62-RCa-R



M-62❖-RFB



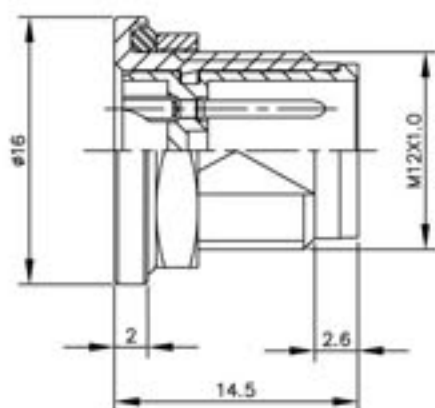
M-62❖-RFC



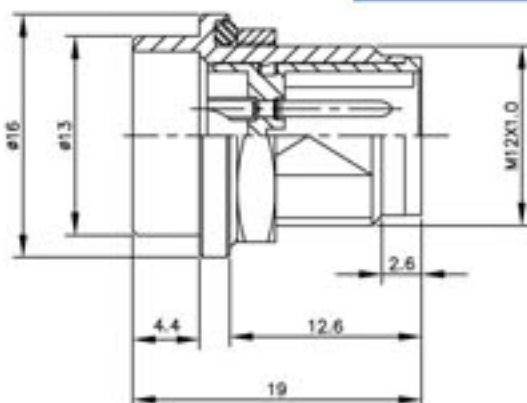
❖ No. of contacts 接點數目	2	3	3A	4	5	6	8
Contacts Configuration 接點方位							
Rated current / voltage 額定電流／電壓	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	300	300	500	300	300	300	300
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100	100	100	100	100	100	100
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	3	3	3	3
Solder inter diameter 焊孔內徑	1.0	1.0	1.0	1.0	1.0	1.0	1.0



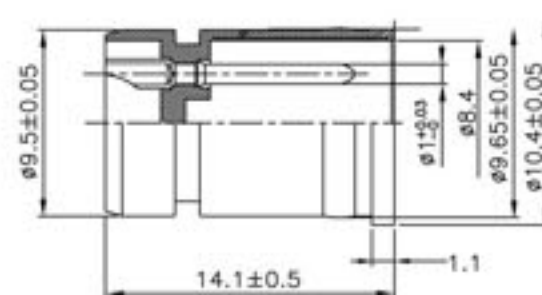
M-62 -RM



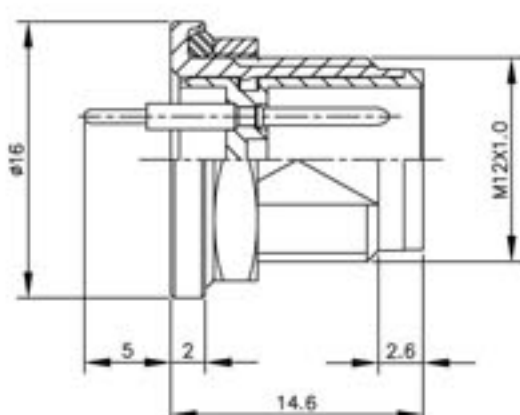
M-62 -RMA



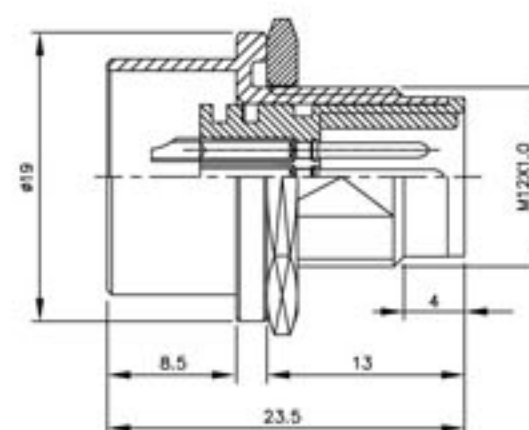
M-62 A-GP



M-62 -RMB

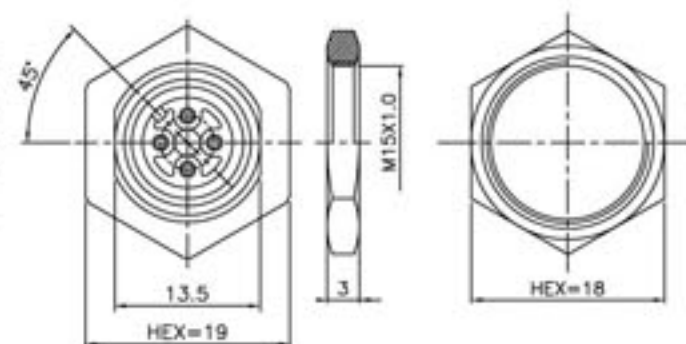
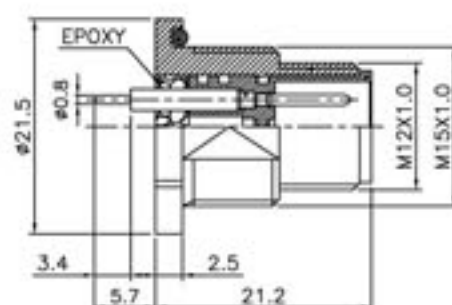


M-62 -RMC



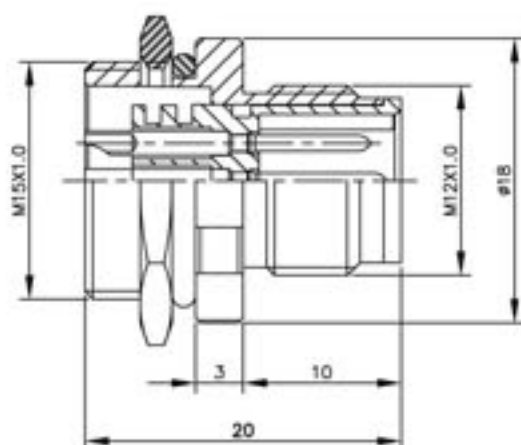
◆ No. of contacts 接點數目	2	3	3A	4	5	6	8
Contacts Configuration 接點方位							
Rated current / voltage 額定電流／電壓	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	300	300	500	300	300	300	300
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100	100	100	100	100	100	100
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	3	3	3	3
Solder inter diameter 焊孔內徑	1.0	1.0	1.0	1.0	1.0	1.0	1.0

M-62 -RMJ

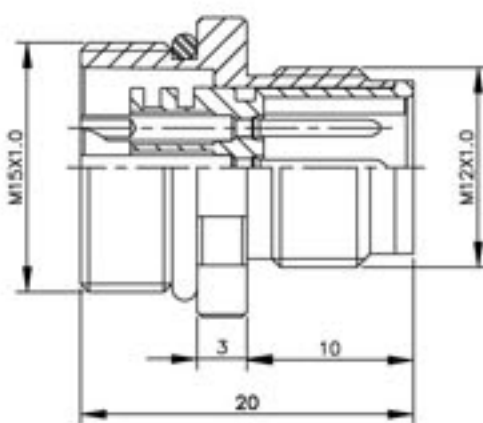


◆ No. of contacts 接點數目	4	5	6	8			
Contacts Configuration 接點方位							
Rated current / voltage 額定電流／電壓	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.			
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	300	300	300	300			
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100	100	100	100			
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	3			
Solder inter diameter 焊孔內徑	1.0	1.0	1.0	1.0			

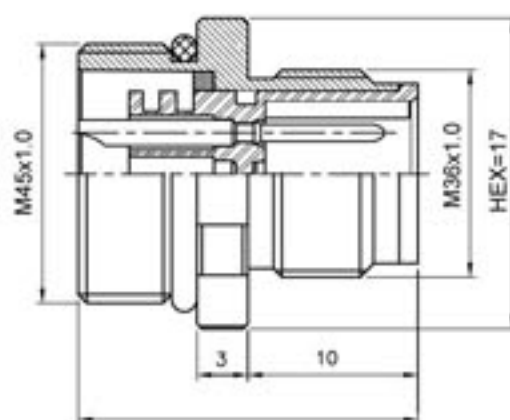
M-62❖ -RMD



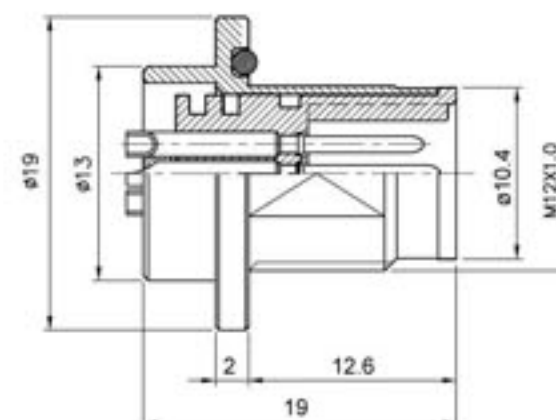
M-62❖ -RME



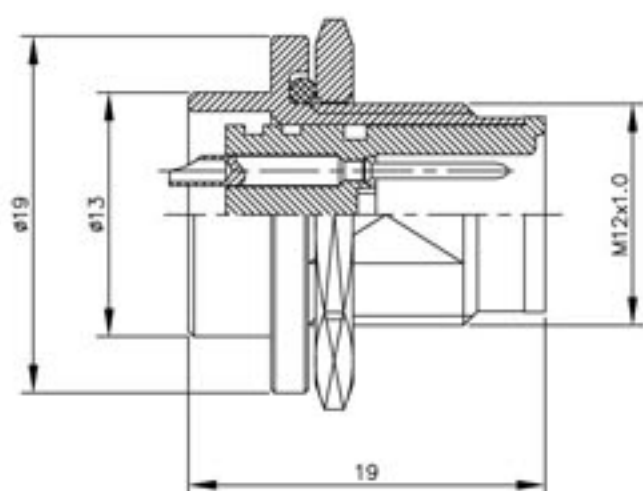
M-624/626❖ -RME



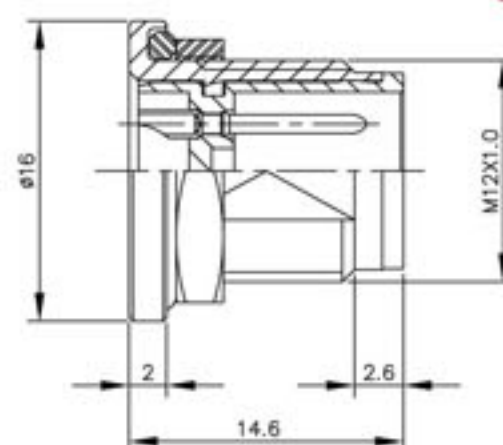
M-625/628❖ -RME



M-62❖ -RMH



M-62❖ -RMS



SHELL: STAINLESS STEEL
(不鏽鋼)

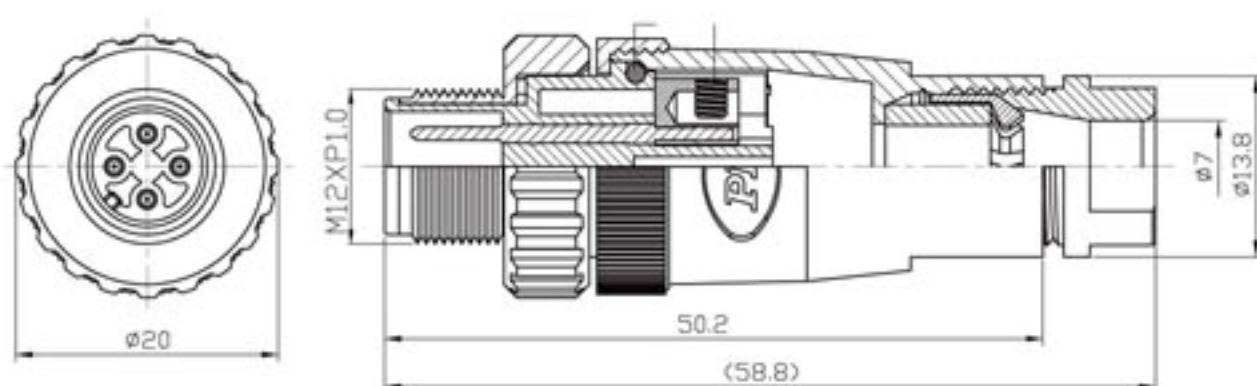
❖ No. of contacts 接點數目	3	3A	4	5	6	8
Contacts Configuration 接點方位						
Rated current / voltage 額定電流/電壓	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1500	1500	1500	1500	1500	1500
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100	500	100	100	100	100
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	3	3	3
Solder inter diameter 焊孔內徑	1.0	1.0	1.0	1.0	1.0	1.0



M-62❖SP-PM-R



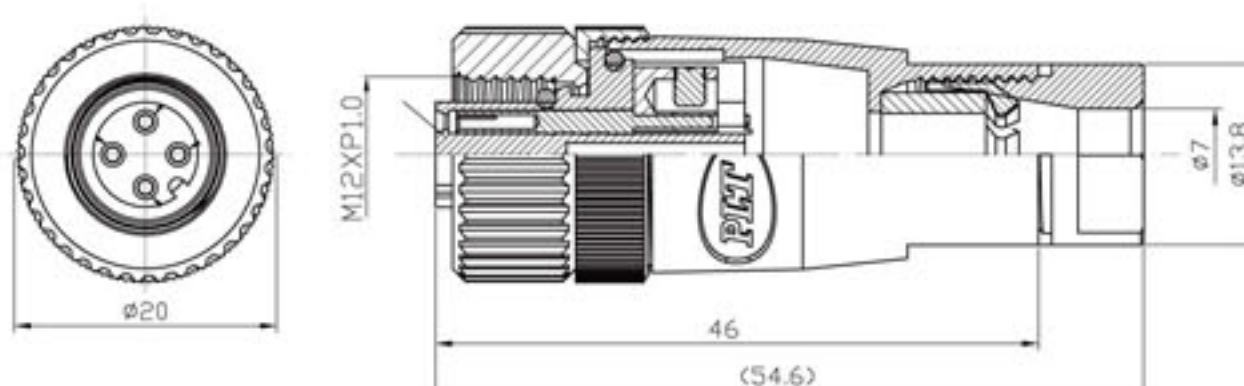
M-624SPA-PF-R



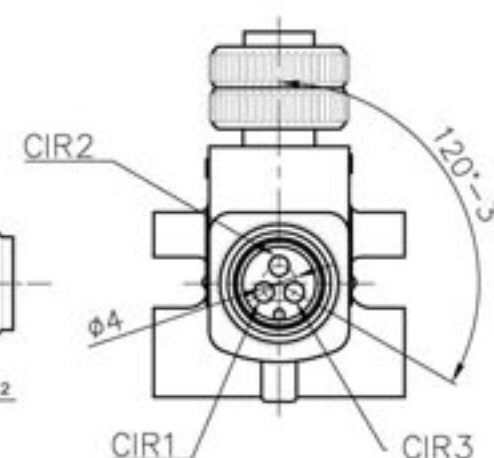
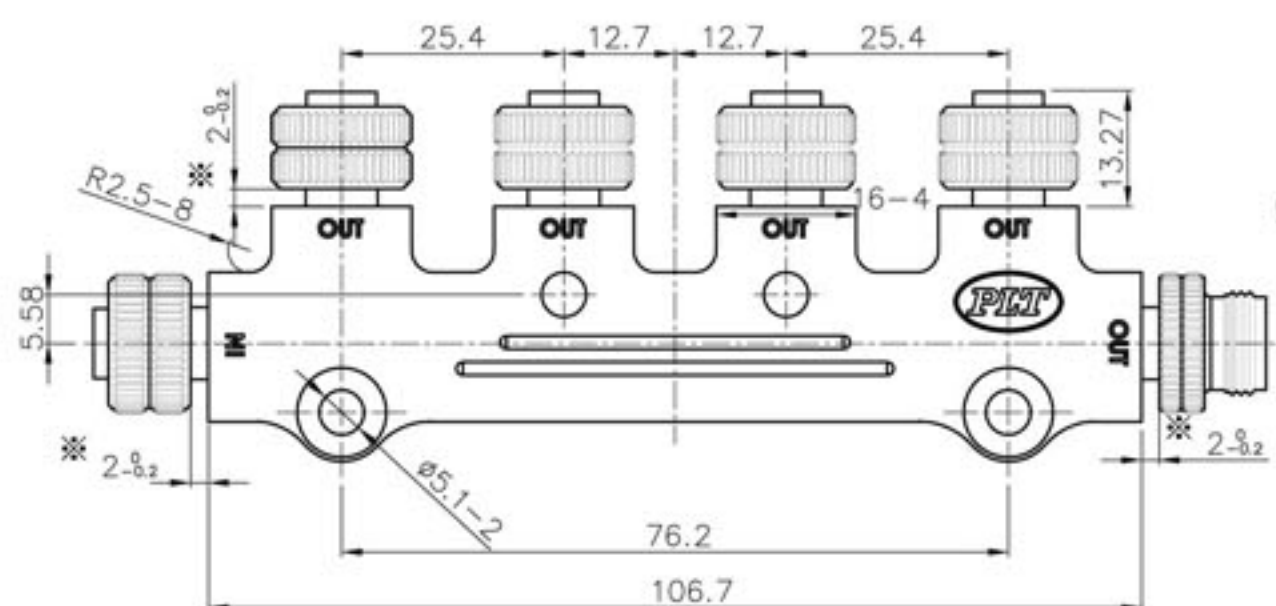
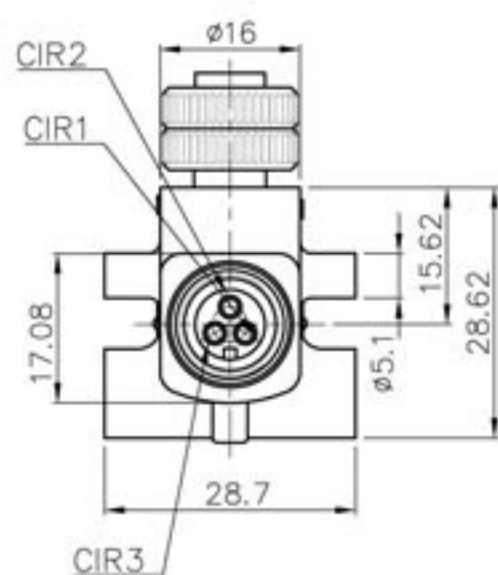
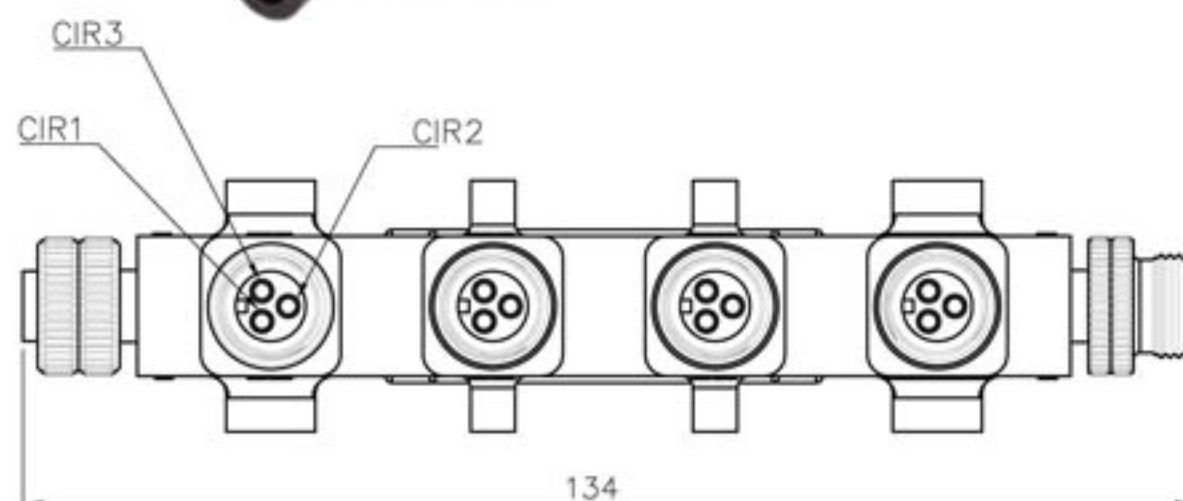
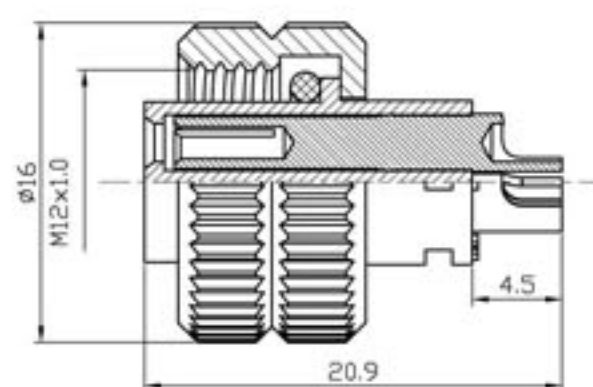
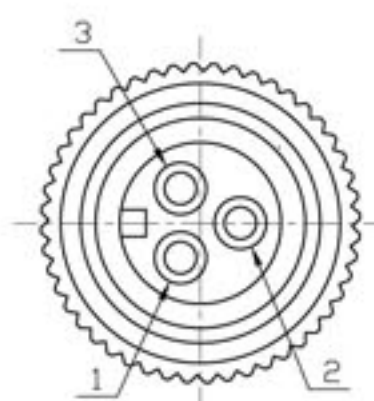
PM

PF

M-62❖SP-PF-R



❖ No. of contacts 接點數目	4	5	6	8		
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.	3A-125V MAX. 5ma-5V MIN.		
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1500	1500	1500	1500		
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100	100	100	100		
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	3		
Solder inter diameter 焊孔內徑	1.0	1.0	1.0	1.0		


M-623T5-ADP-R

Switching Power Supply
可調式電源供應器

M-623A-PF

Items	Electrical specifications
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	300
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100



ORDERING INFORMATION

WPM-202-RM-R



P:PLUG	R:Receptacle	F:Female	M:Male
插頭	插座	導梢	導針

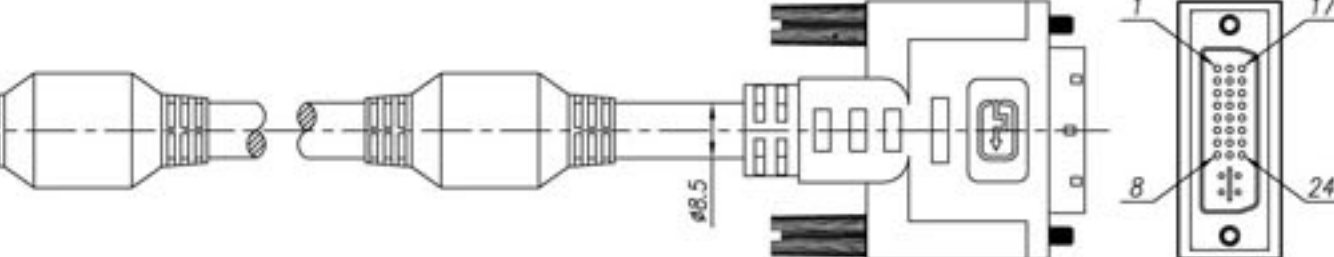
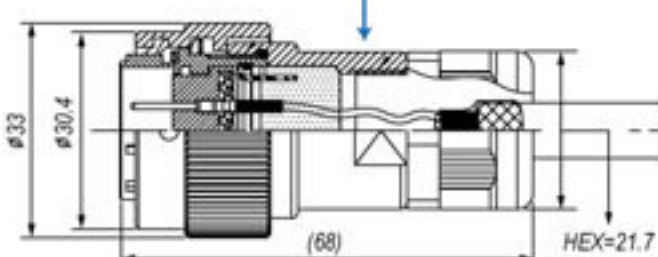


AMS3126A



WA-987C-R

AMS3126A 16-22P-R

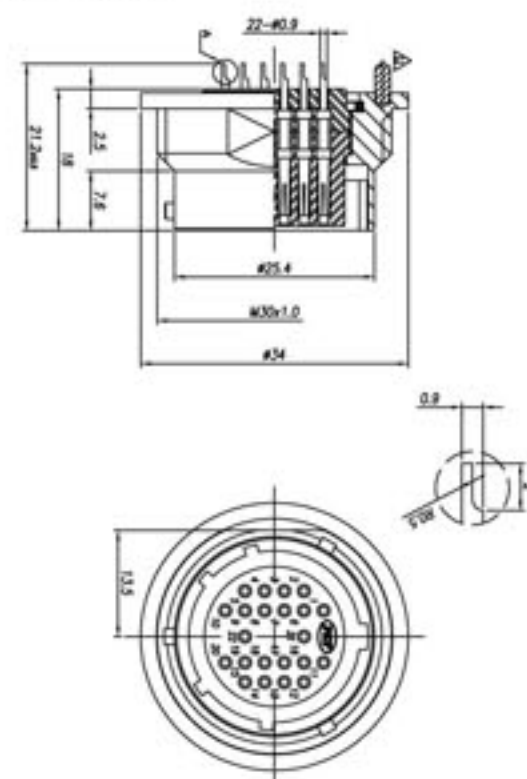


◆ No. Electrical Specification	
Withstanding voltage	AC 1000V one minute
Rated current / voltage	2A 125V
Insulation resistance	100MΩ min. at DC 500V



WPS3112E

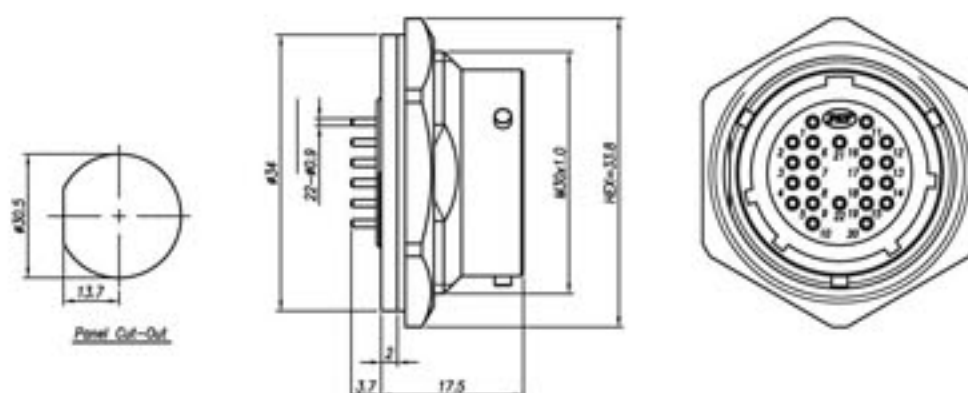
WPS3112E 16-22SA-R
(焊接式)



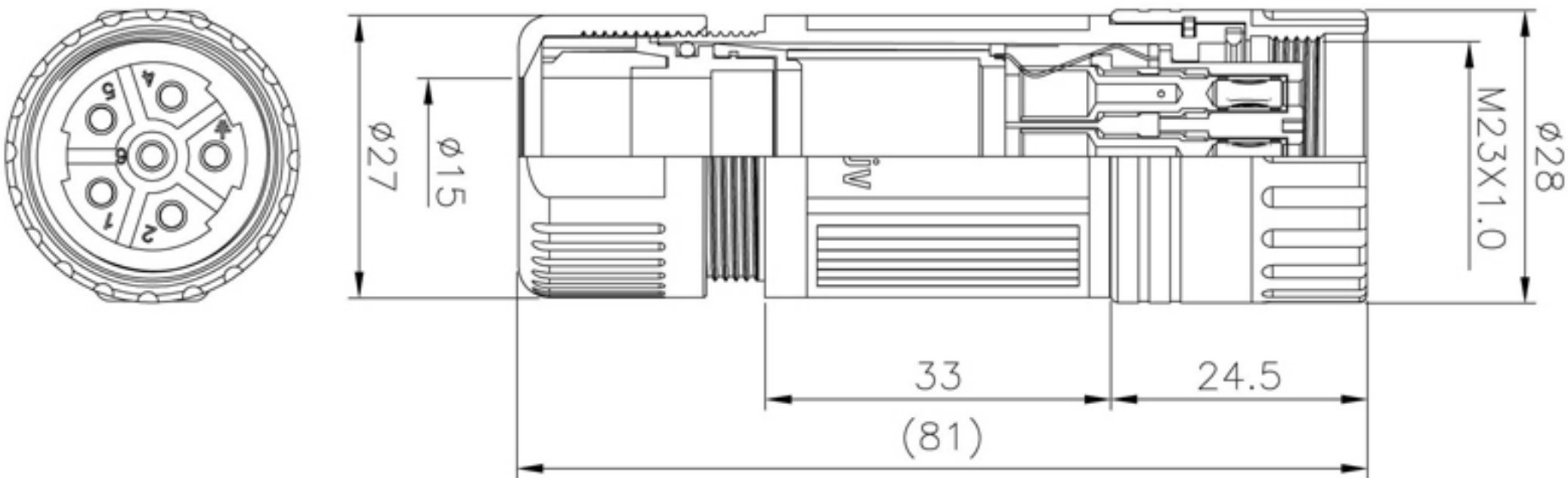
WPS3112E 16-22S-R

For PCB Type


- PCB Type
- Soldering Type
- Clamping Type



◆ No. Electrical Specification	22		
Contacts Configuration 接點方位			
Rated current / voltage 額定電流／電壓	2A 125V		
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100M Ω min. at DC 500V		
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	AC1000V / 1 minute		
Contact resistance	≧ 10 min Ω		

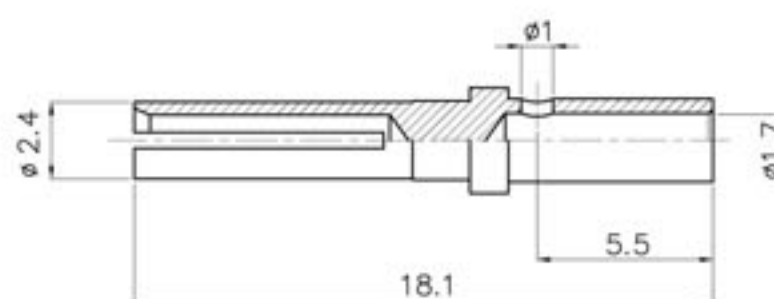
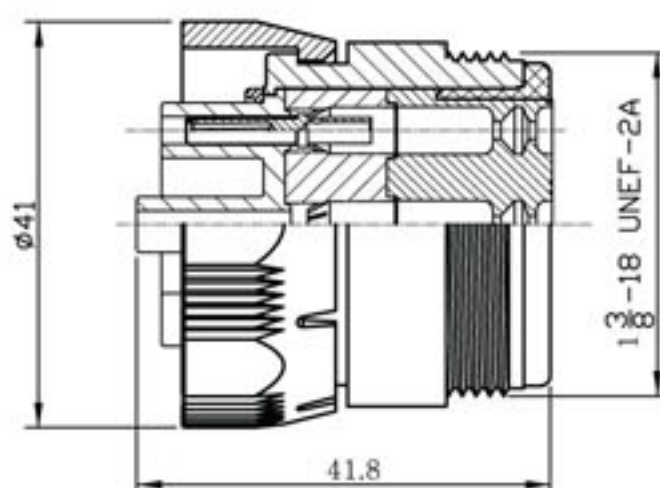
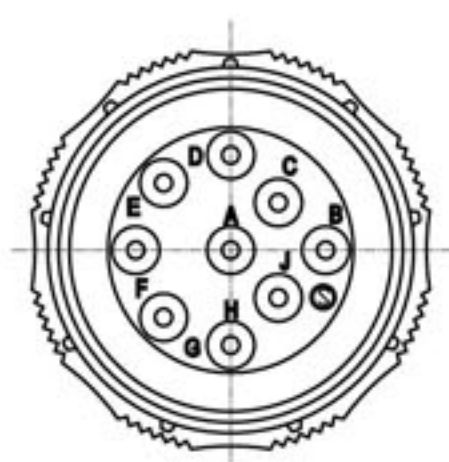


PAT WPS-236A-PF

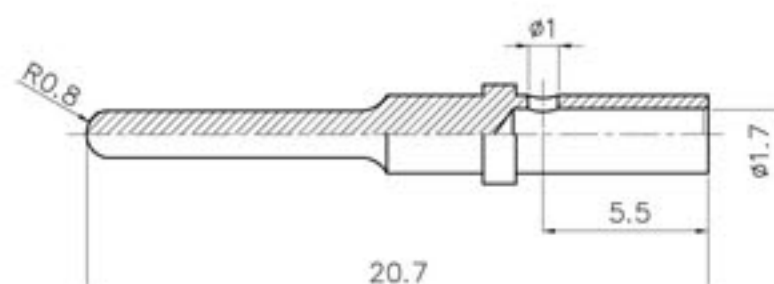
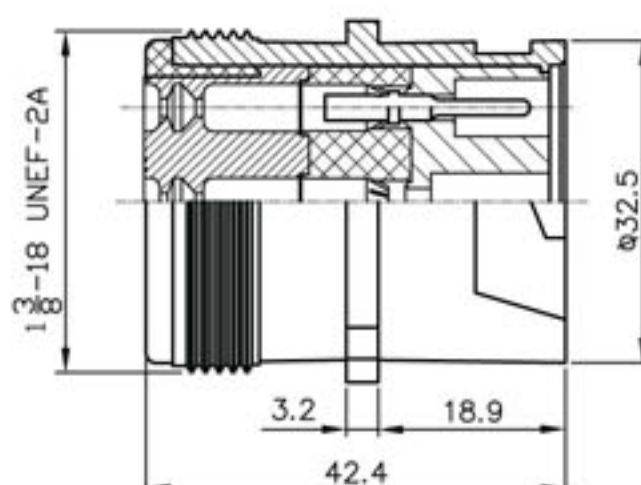
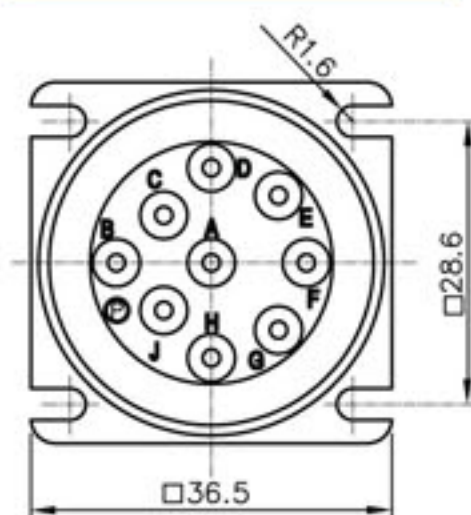
◆ No. of contacts 接點數目	6					
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	30A 250V					
Operation limit voltage (AC.V.rms) 操作電壓限制	630					
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	2000					
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	2000					
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3					



WPM06B-9-16S



WPM02A-9-16P

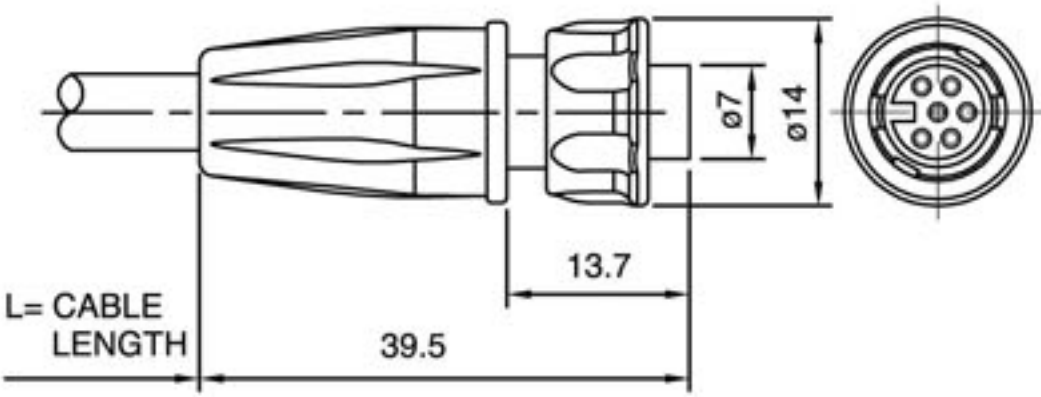


◆ No. of contacts 接點數目	9					
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	13A 250V					
Operation limit voltage (AC.V.rms) 操作電壓限制	250					
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	2000					
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	5000					
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3					
Solder inter diameter 焊孔內徑	1.7					

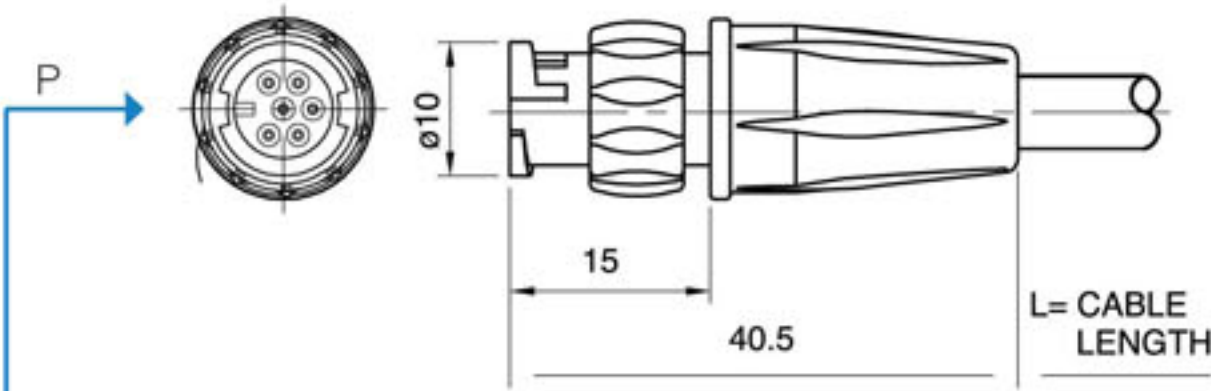
WPM SERIES



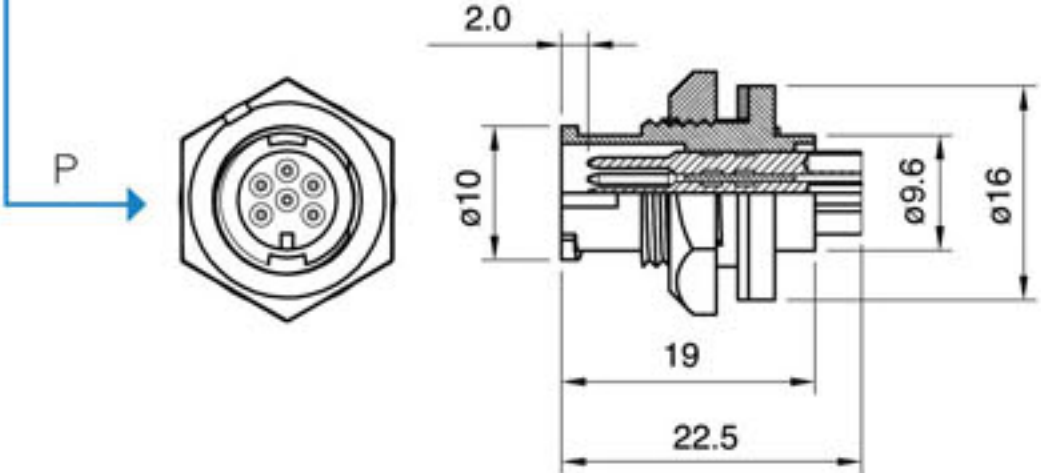
WPM16A11-6SL



WPM16A11-6PL



WPM16A11-6R-R



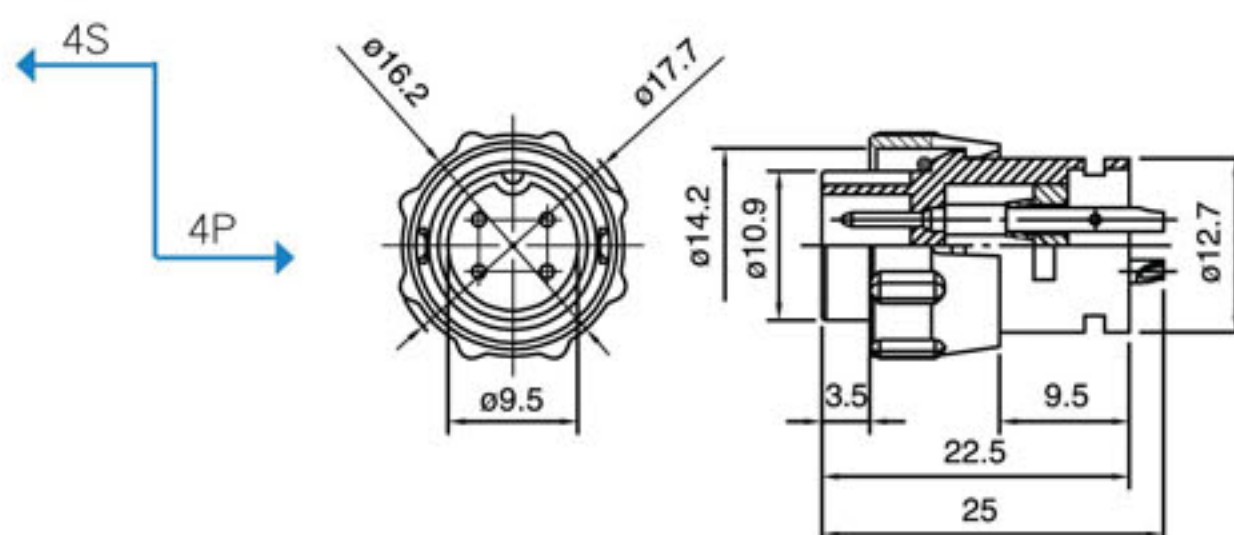
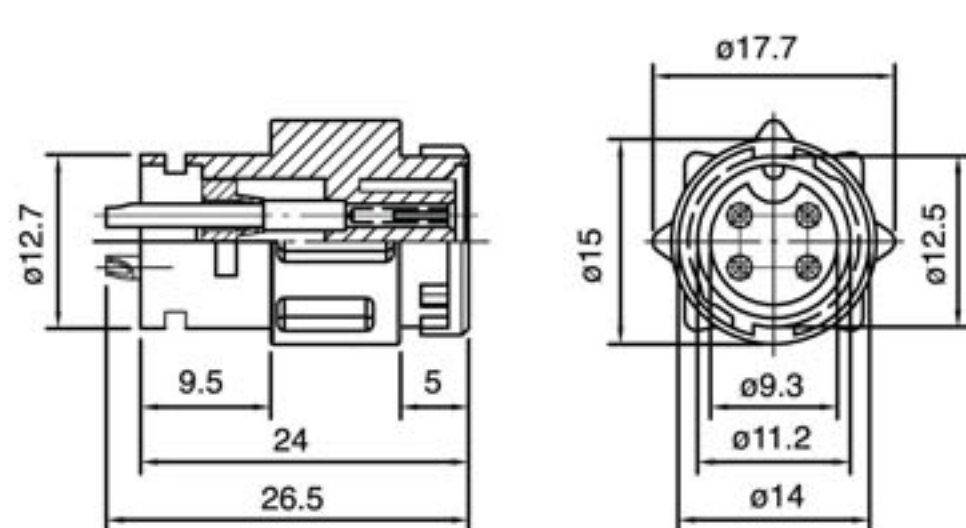
❖ No. Electrical Specification	6		
Contacts Configuration 接點方位			
Rated current / voltage 額定電流／電壓	3A 125V		
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	≥ 100M Ω at DC 500V		
Current rating	≥ 100V, 2A		
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	≥ AC300V / 1 minute		



WPM16C12-4S

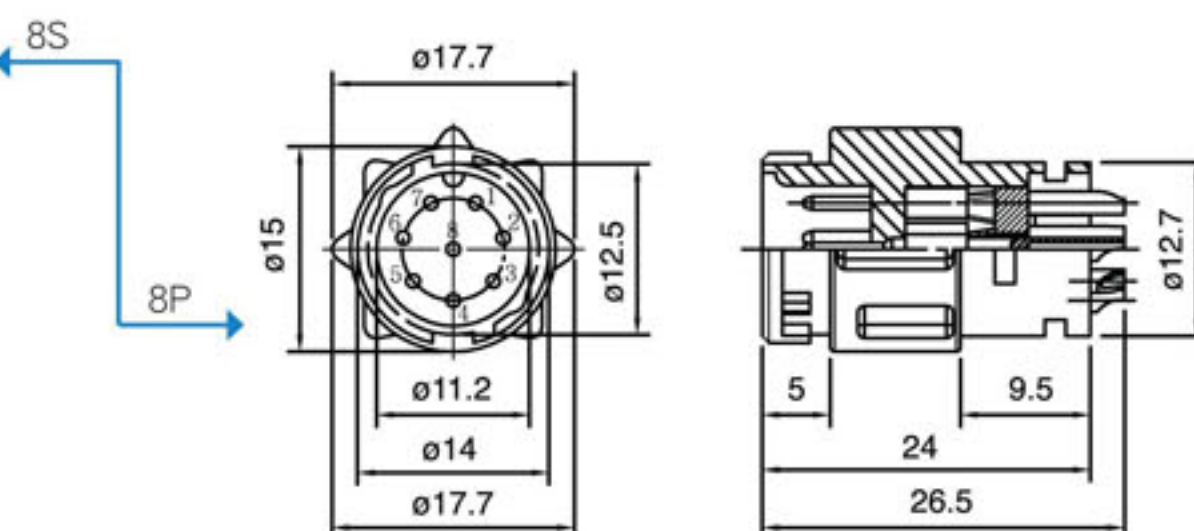
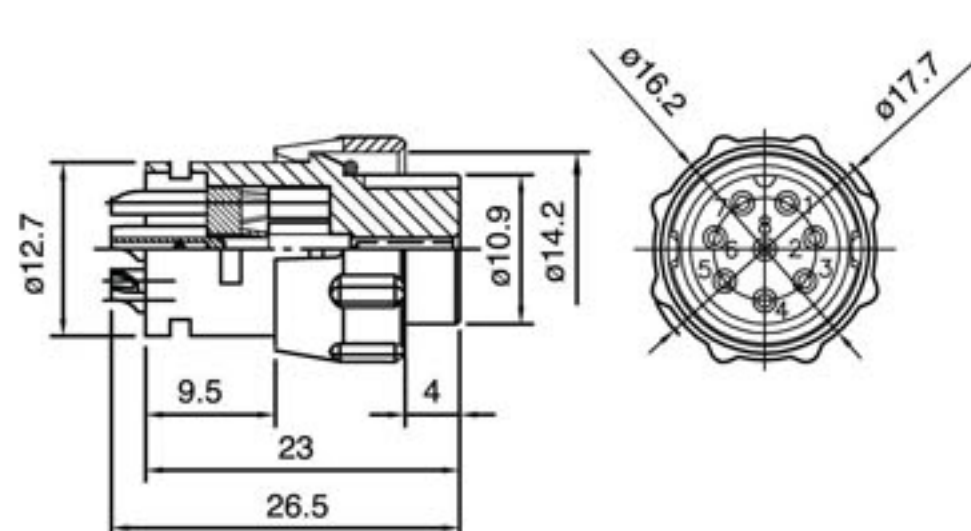


WPM16C12-4P



WPM16C12-8S

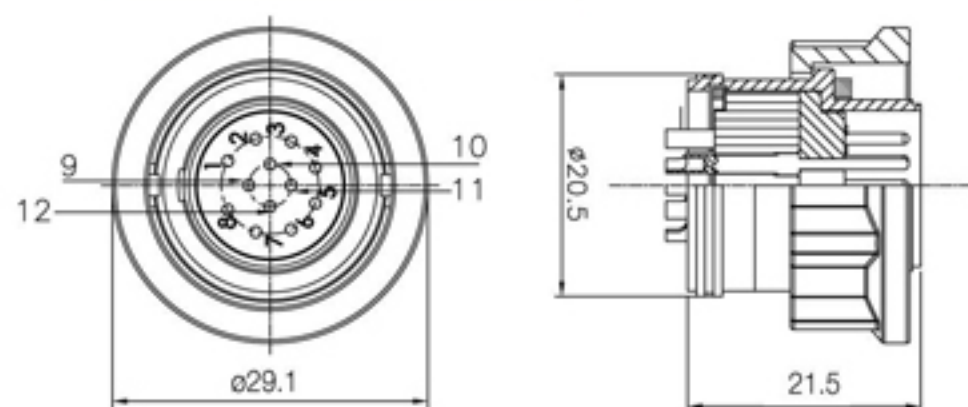
WPM16C12-8P



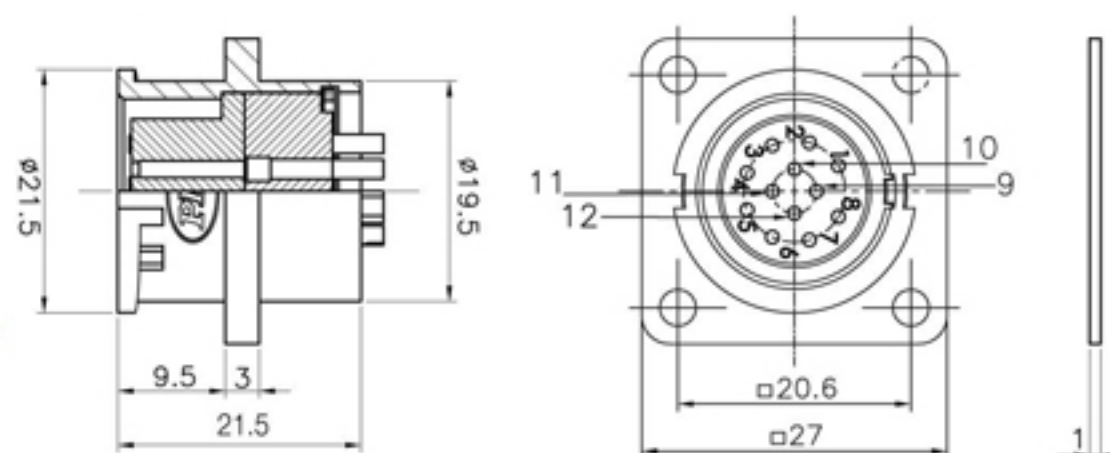
❖ No. Electrical Specification	4	8			
Contacts Configuration 接點方位					
Rated current / voltage 額定電流／電壓	3A 125V	3A 125V			
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1000	1000			
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100 MΩ	100 MΩ			
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3			



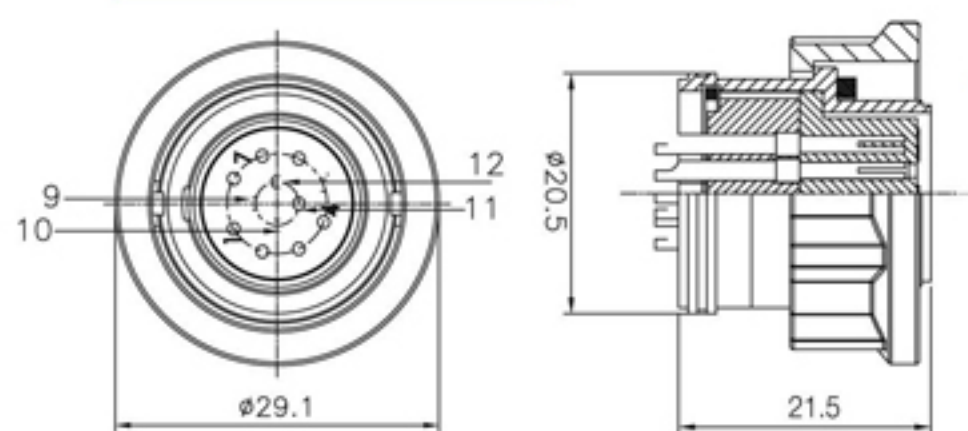
WPM-19-PM-R



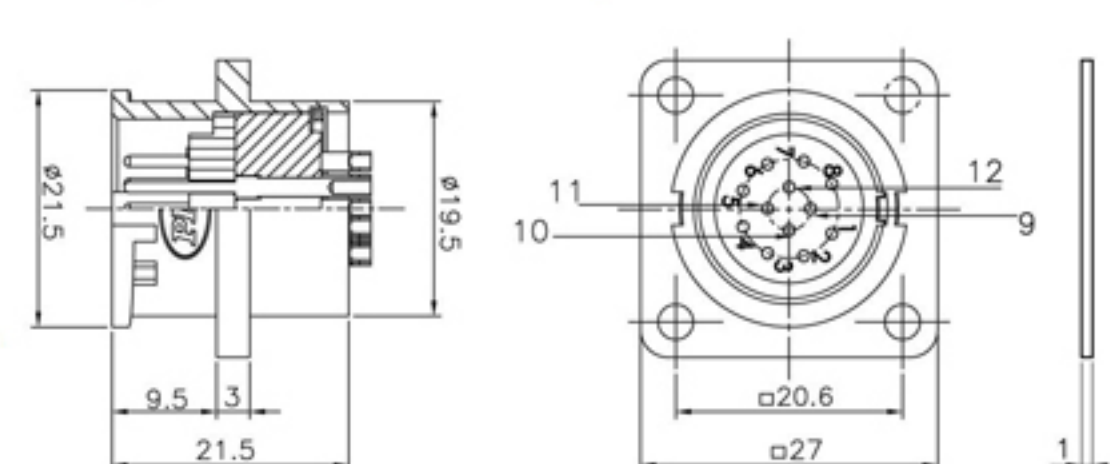
WPM-19-RF-R



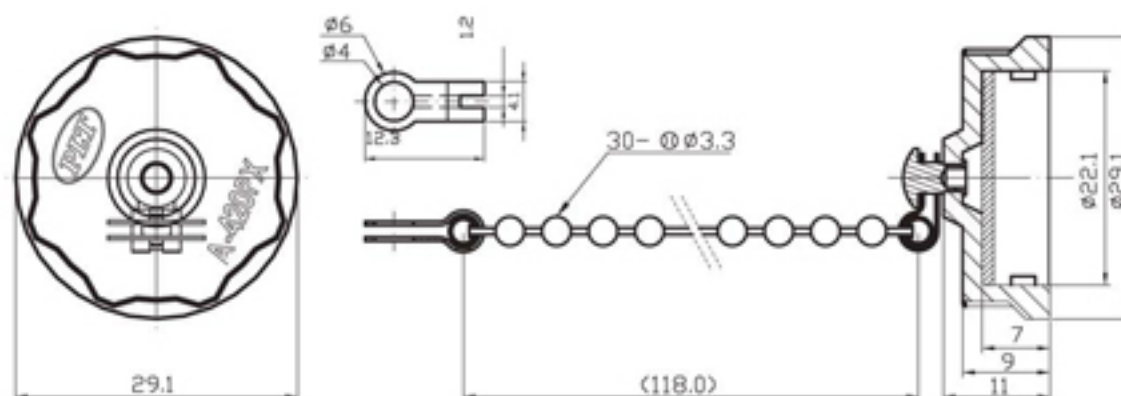
WPM-19-PF-R



WPM-19-RM-R



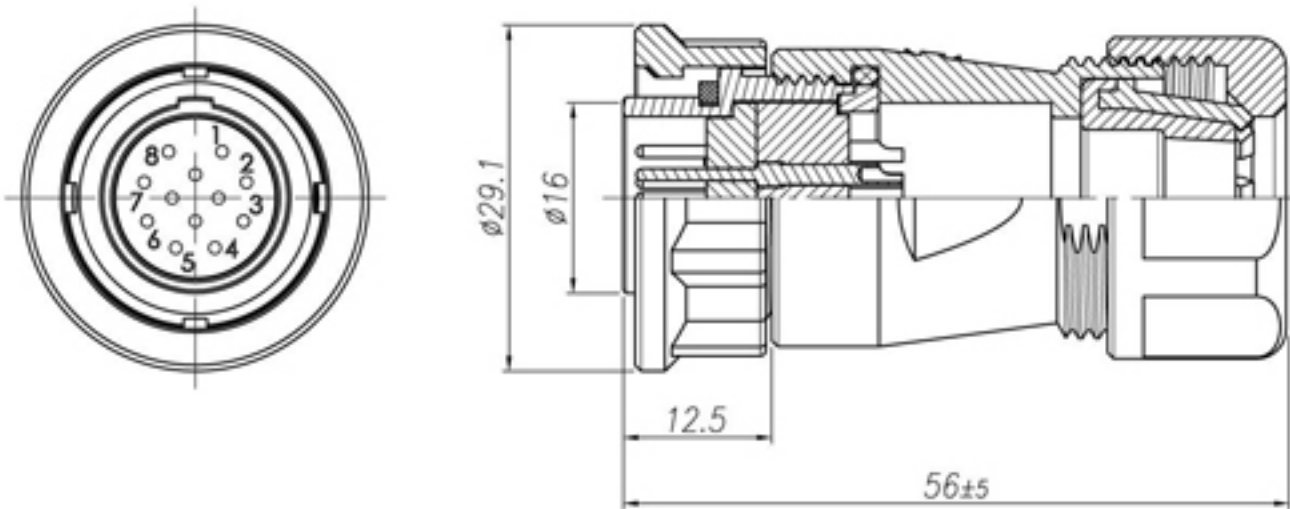
WPM-19-RCa-R



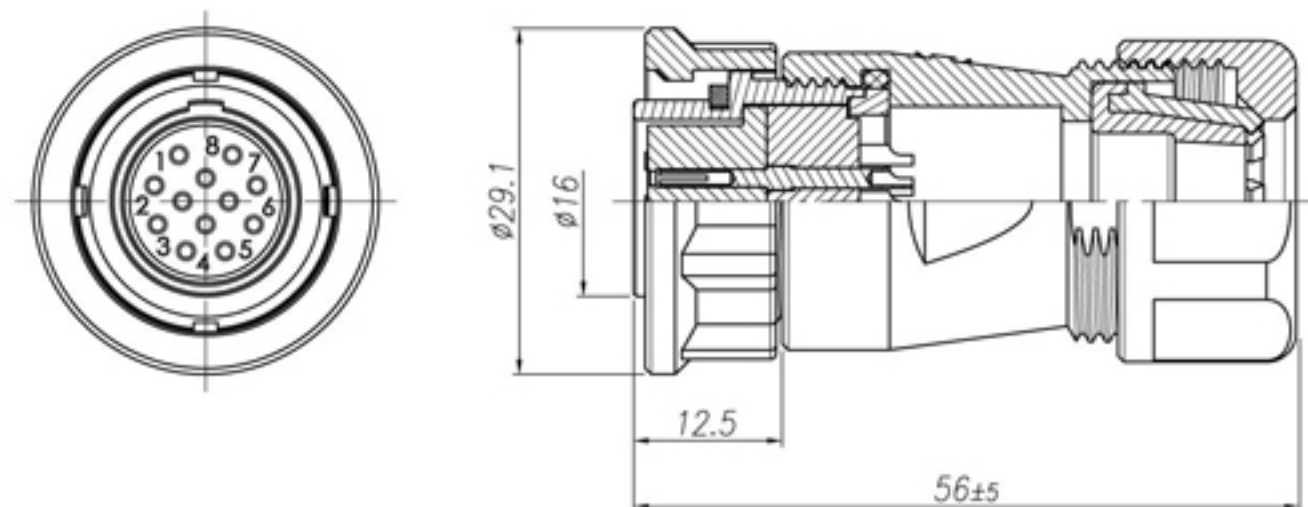
◆ No. of contacts 接點數目	8	12				
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	5A 125V	5A 125V				
limit voltage (AC.V.rms) 操作電壓限制	125	125				
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	300	300				
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	1000	1000				
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3				
Solder inter diameter 焊孔內徑	1.2	1.2				





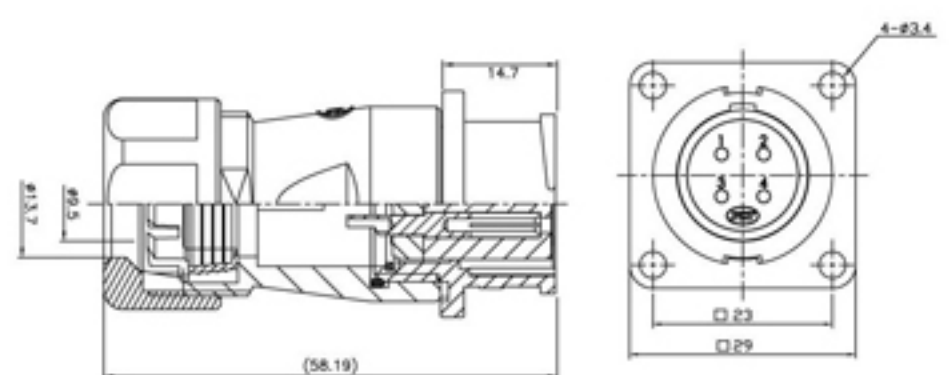
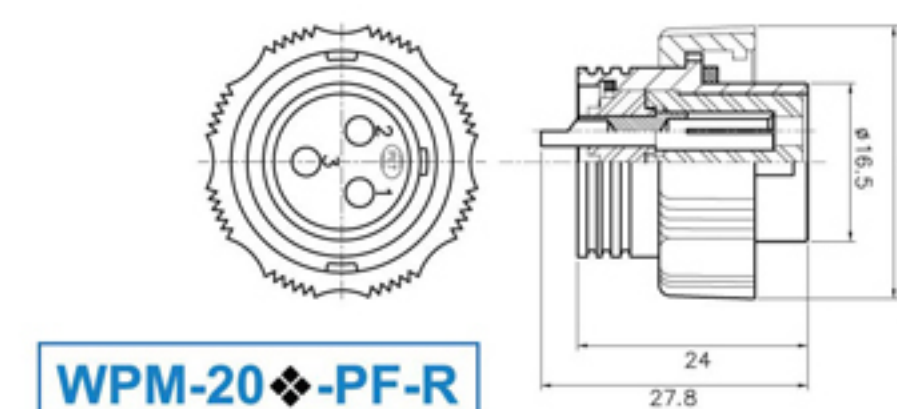
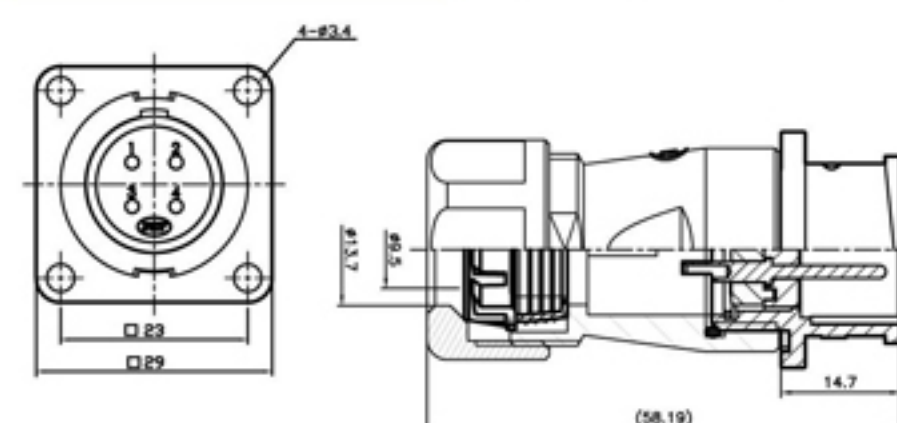
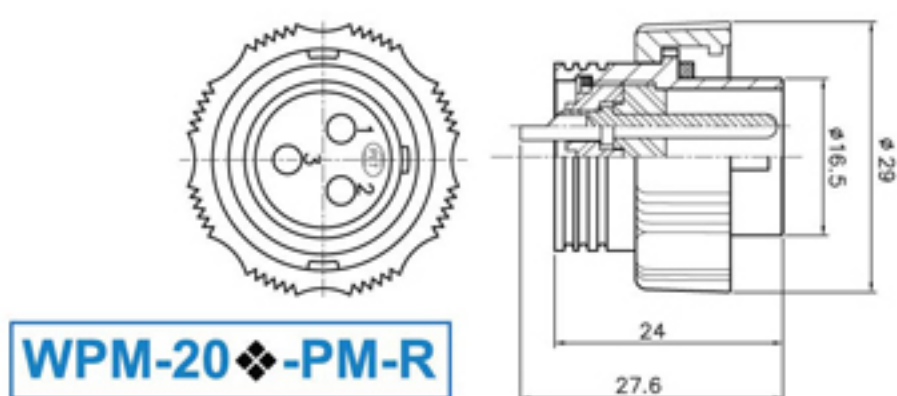
WPM-19-SPM-R



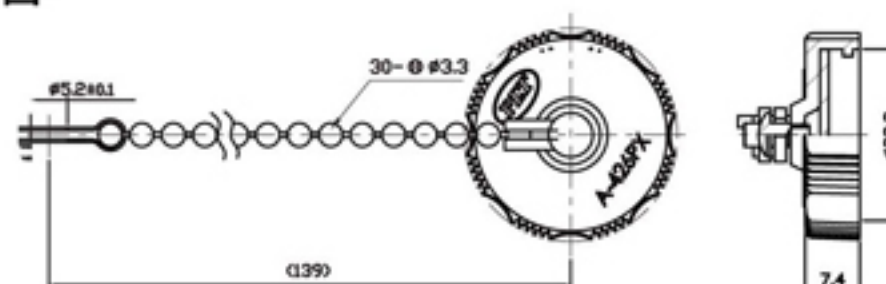
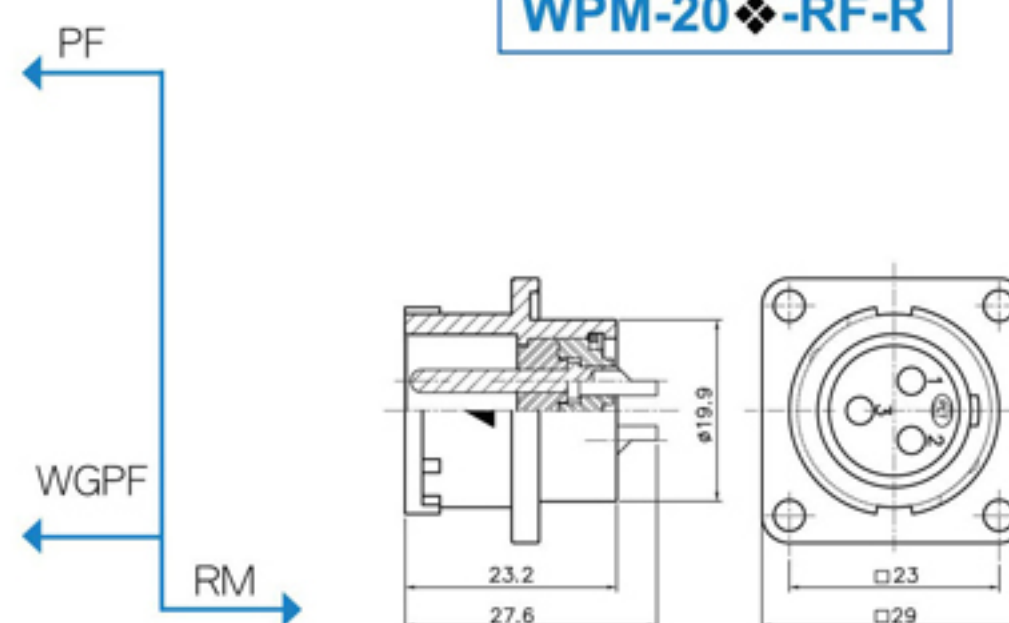
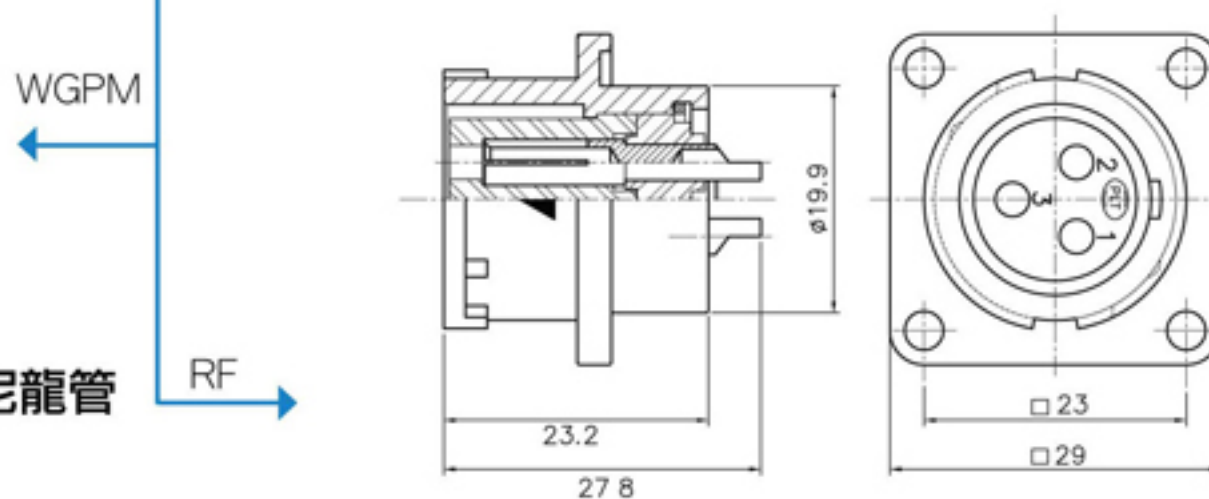
WPM-19-SPF-R



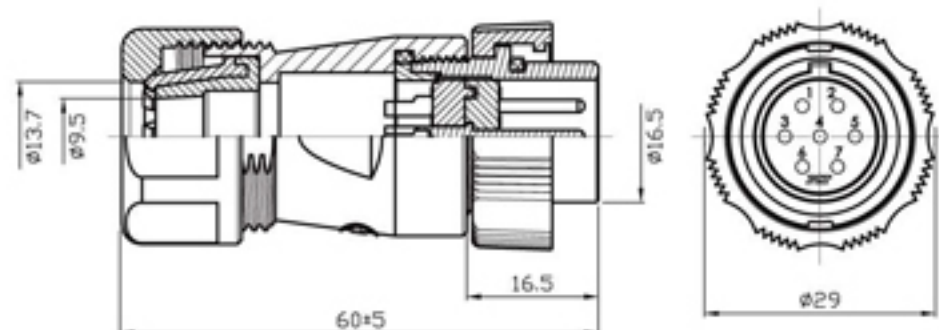
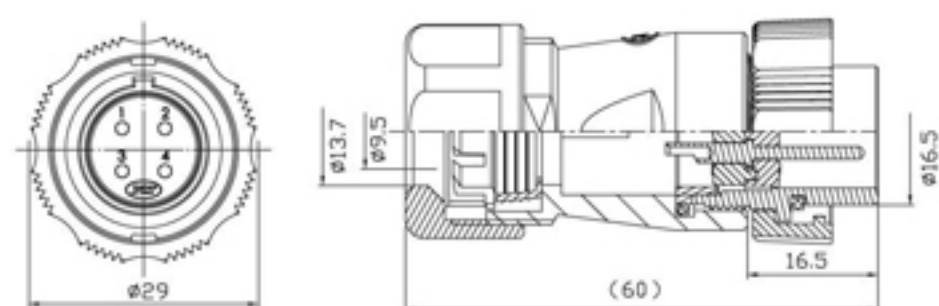
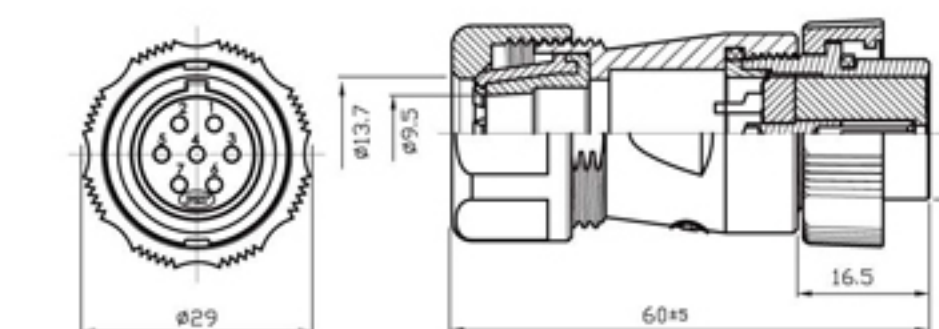
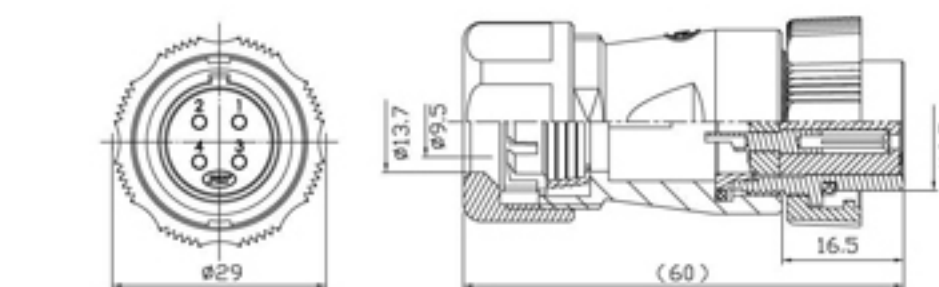
❖ No. of contacts 接點數目	8	12				
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	5A 125V	5A 125V				
Operation limit voltage (AC.V.rms) 操作電壓限制	125	125				
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	300	300				
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	1000	1000				
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3				
Solder inter diameter 焊孔內徑	1.2	1.2				



WPM-20-WGPF2.5-R 2.5=轉接5/16"尼龍管



◆ No. of contacts 接點數目	2	3	4	7		
Contacts Configuration 接點方位						
Rated current / voltage 額定電流/電壓	15A 250V	15A 250V	15A 250V	15A 250V		
Operation limit voltage (AC.V.rms) 操作電壓限制	250	250	250	250		
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1500	1500	1000	1000		
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	2000	2000	2000	2000		
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	3		
Solder inter diameter 焊孔內徑	1.8	1.8	1.6	1.6		

**WPM-20-SPM-R****WPM-20-WSPM2.5-R** 2.5=轉接5/16"尼龍管**WPM-20-SPF-R****WPM-20-WSPF2.5-R** 2.5=轉接5/16"尼龍管

SPM

ADF

WSPM

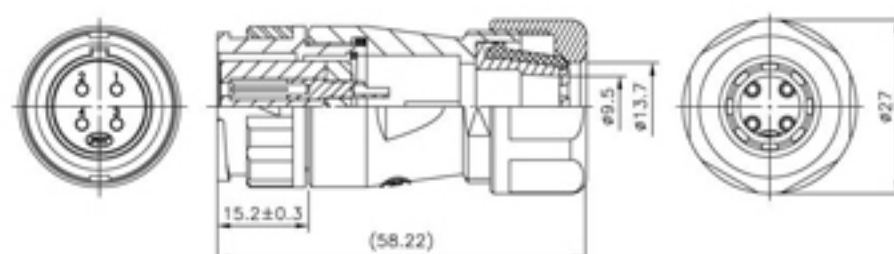
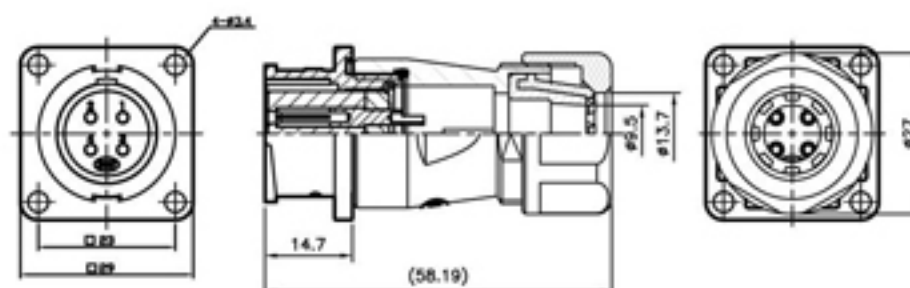
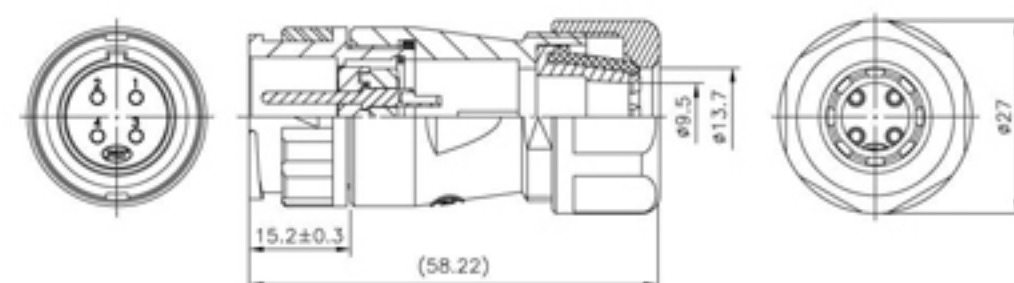
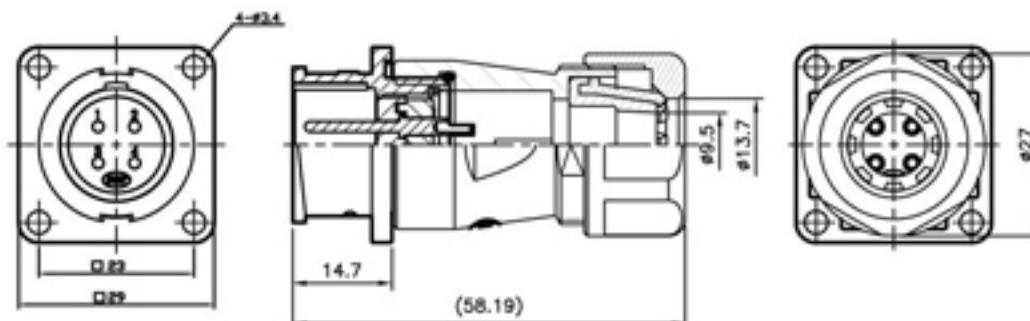
ADFA

SPF

ADM

WSPF

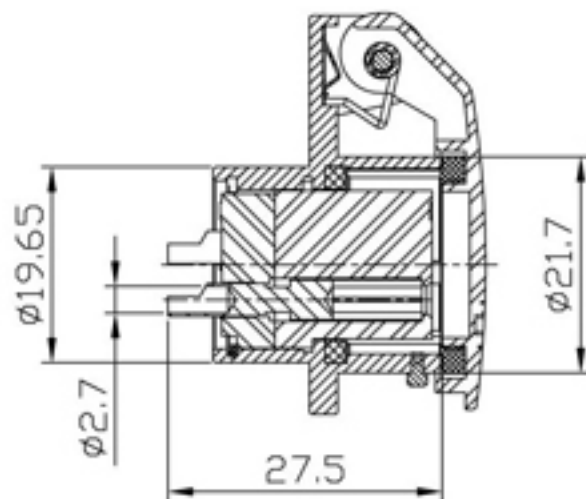
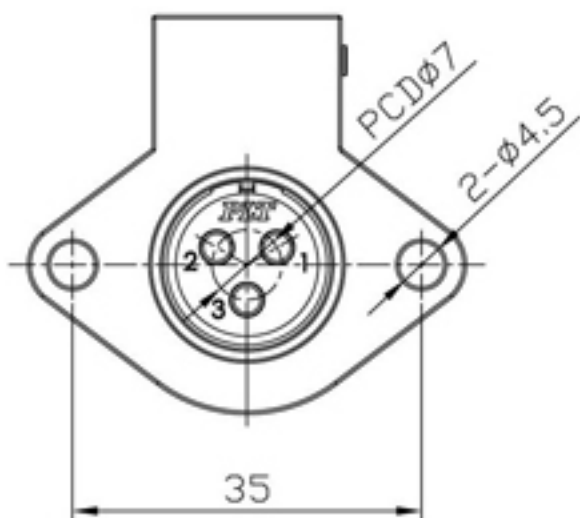
ADMA

**WPM-20-ADF-R****WPM-20-ADFA-R****WPM-20-ADM-R****WPM-20-ADMA-R**

◆ No. of contacts 接點數目	2	3	4	7		
Contacts Configuration 接點方位						
Rated current / voltage 額定電流/電壓	15A 250V	15A 250V	15A 250V	15A 250V		
Operation limit voltage (AC.V.rms) 操作電壓限制	250	250	250	250		
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1500	1500	1000	1000		
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	2000	2000	2000	2000		
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	5	3		
Solder inter diameter 焊孔內徑	1.8	1.8	1.6	1.6		



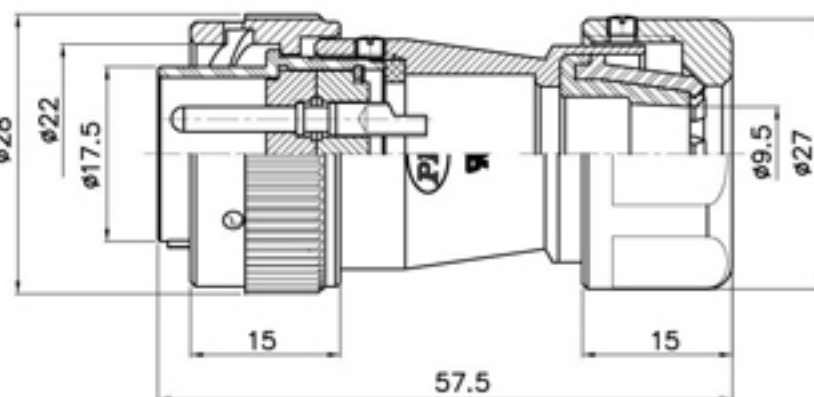
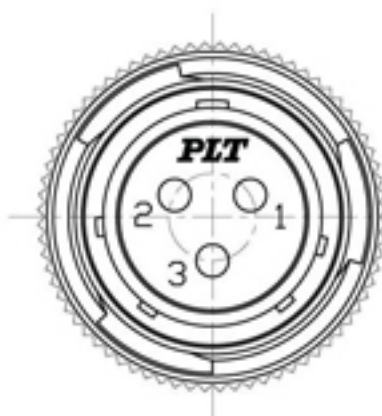
WPM-21-RF



RF

PM

WPM-21-PM



◆ No. of contacts 接點數目	3					
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	15A 250V					
Operation limit voltage (AC.V.rms) 操作電壓限制	250					
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1500					
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	2000					
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3					



Cable Glands



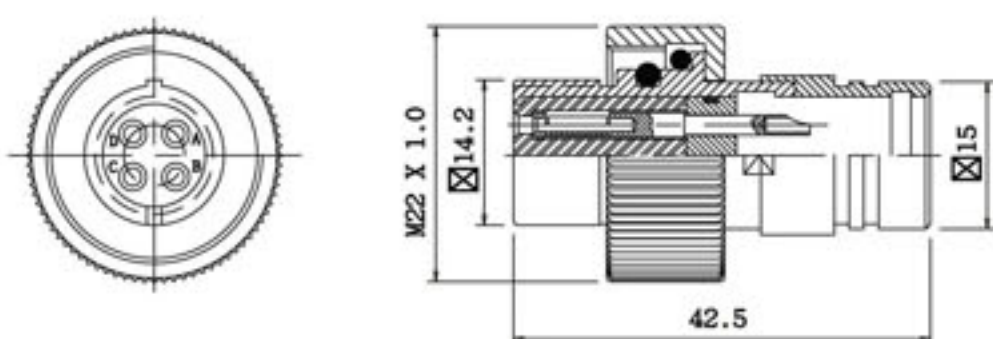
SHELL: STAINLESS STEEL

(不鏽鋼)

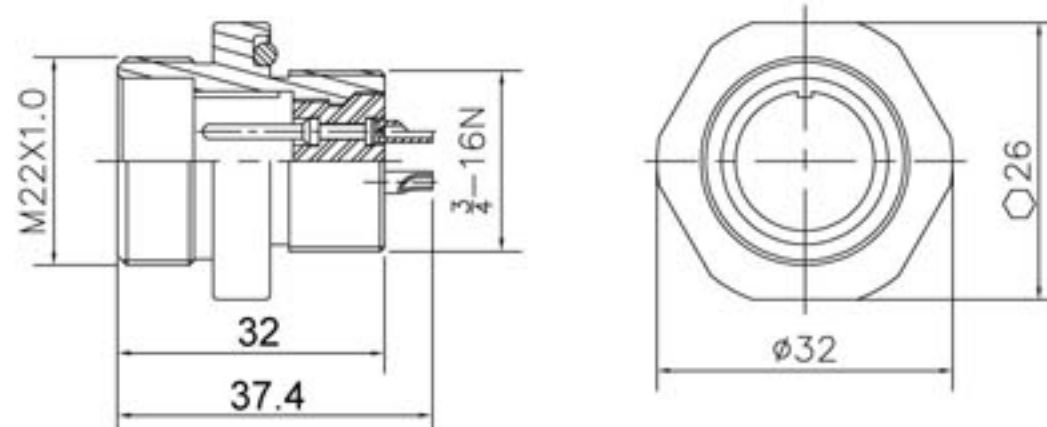
Cable Clamp



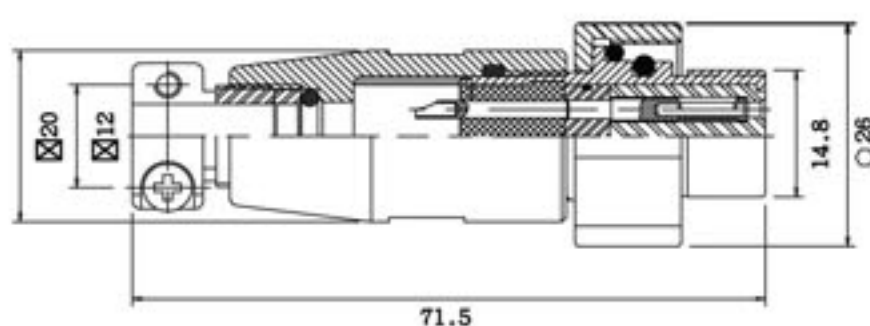
WPM-21 ◆ -PL



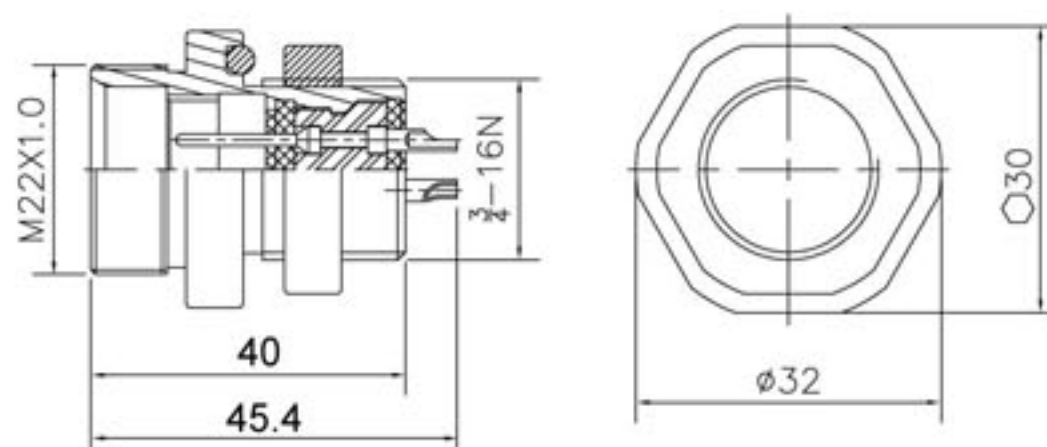
WPM-21 ◆ -RM



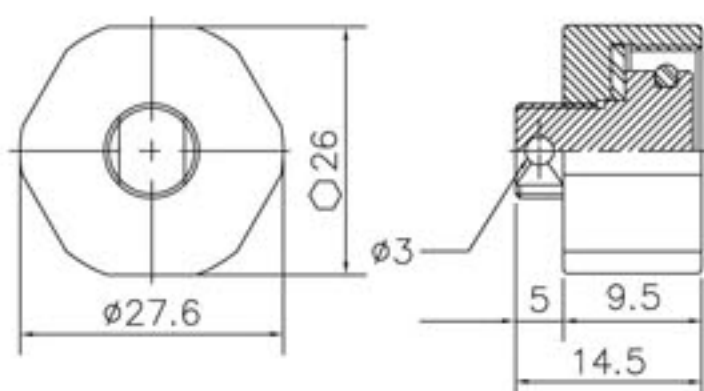
WPM-21 ◆ -PF



WPM-21 ◆ -RA



WPM-21 ◆ -RCa



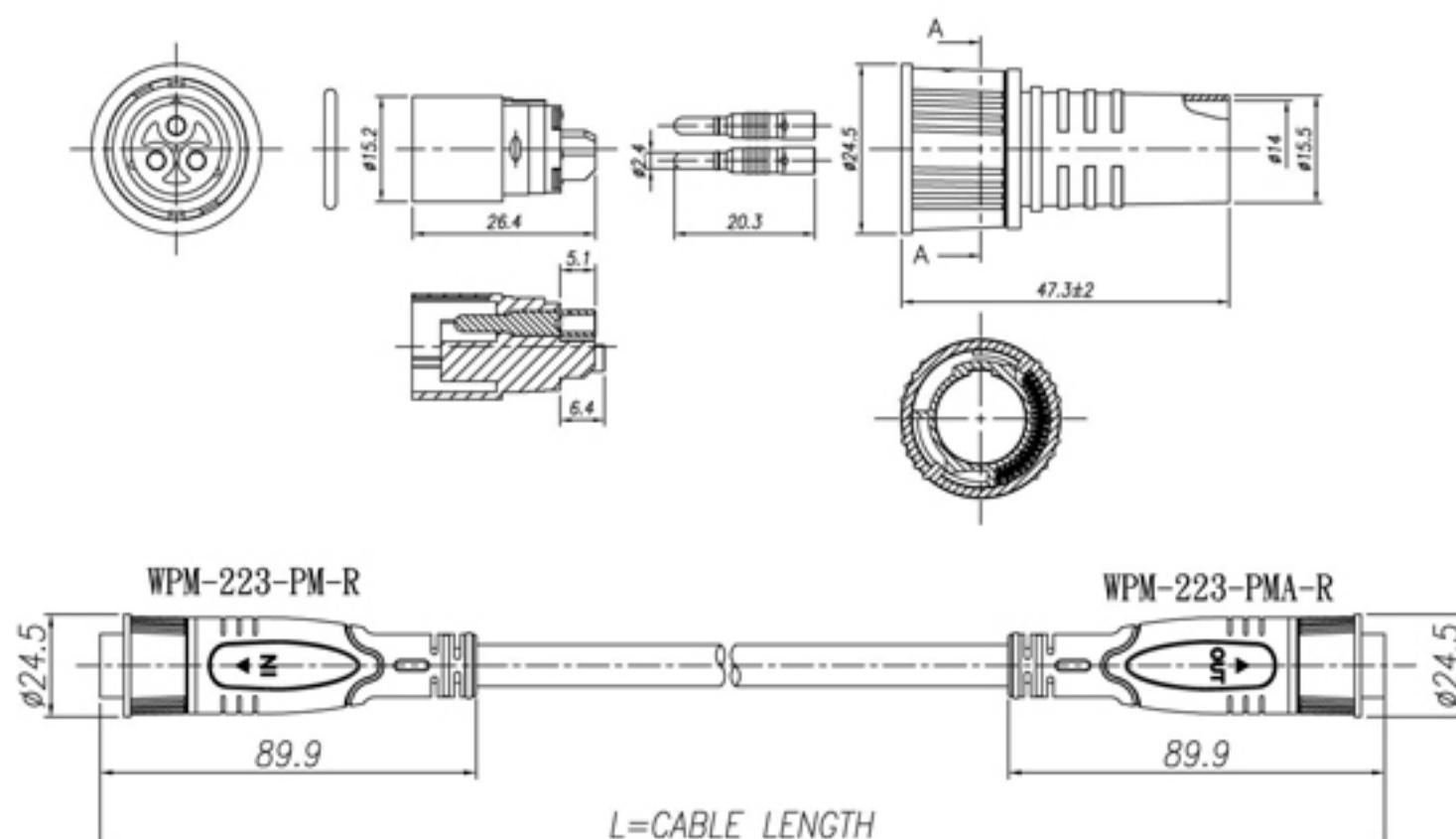
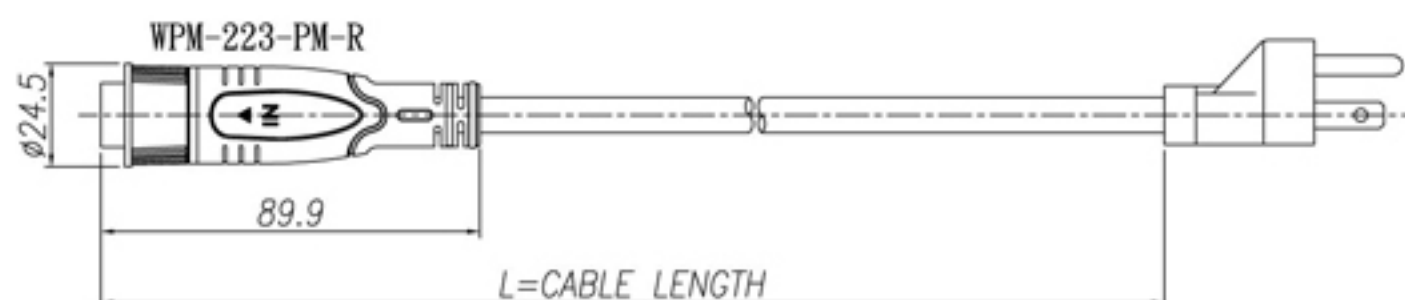
PL

P

RA

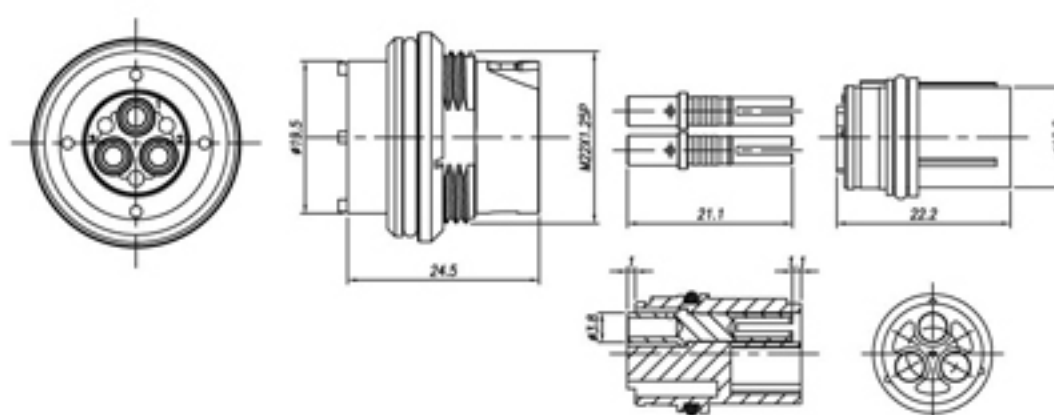
RCa

◆ No. of contacts 接點數目	4					
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	10A 100V					
Operation limit voltage (AC.V.rms) 操作電壓限制	100					
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	200					
Contact resistance (MΩ MAX.) at DC 1A 接觸阻抗	3					
Solder inter diameter 焊孔內徑	1.5					

WPM-223-PM**WPM-223-PMA**

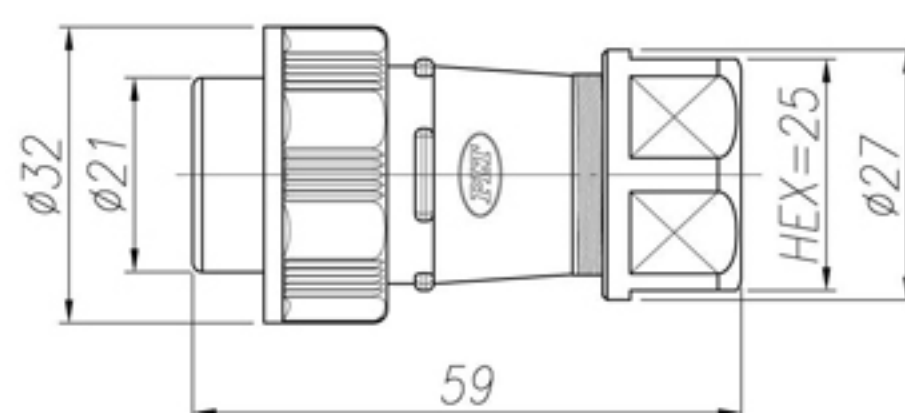
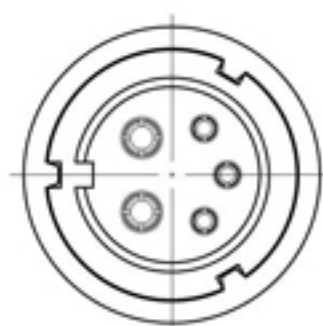
No.	Electrical Specification	
1	Insulation resistance (MΩ MIN.) at DC 500V	≥ 100MΩ at DC500V
2	Withstanding voltage (AC.V.rms) 1 minute	≥ AC600V / 1 Minute

No.	Electrical Specification	
1	Insulation resistance (MΩ MIN.) at DC 500V	≥ 100MΩ at DC500V
2	Withstanding voltage (AC.V.rms) 1 minute	≥ AC300V / 1 Minute

WPM-223-RF**WPM-223-RFA**

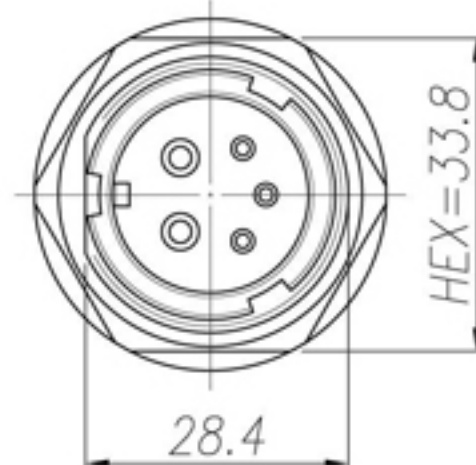
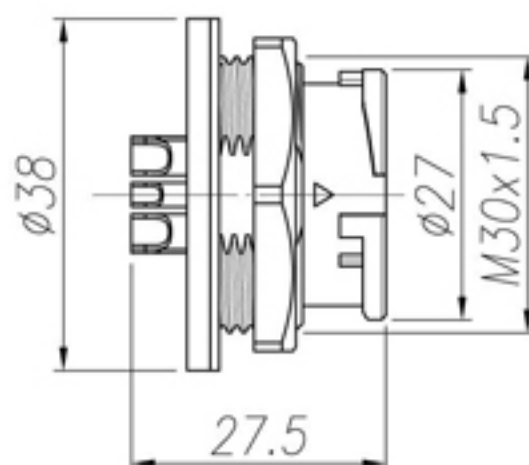
◆ No. Electrical Specification	3	3			
Contacts Configuration 接點方位					
Rated current / voltage 額定電流／電壓	23A 600V	23A 600V			
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	2000	2000			
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	5000 MΩ	5000 MΩ			
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3			

WPM-305A-PF-R

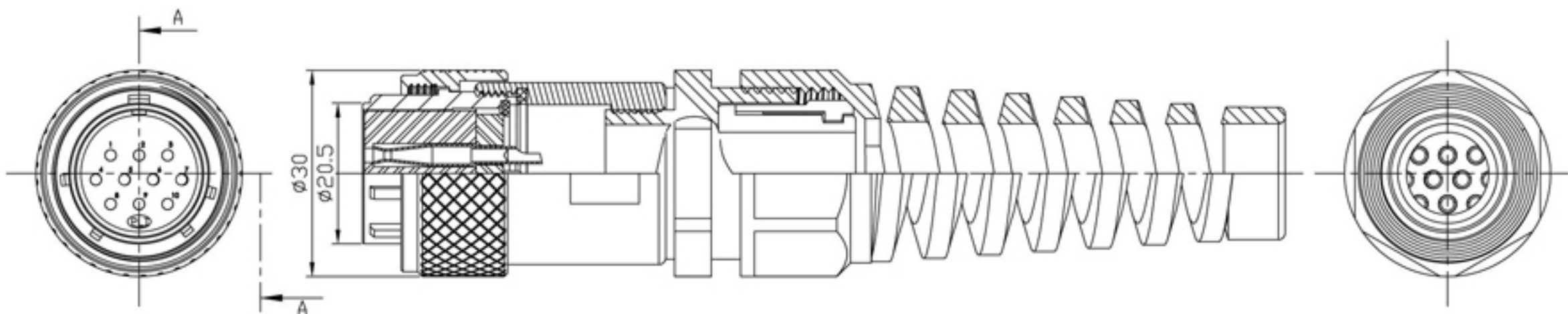



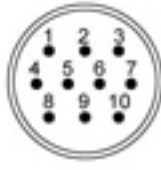
◆ No. of contacts 接點數目	5					
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	5A / 20A 250V					
Operation limit voltage (AC.V.rms) 操作電壓限制	200					
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1000					
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	1000					
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3					

WPM-305A-RM-R



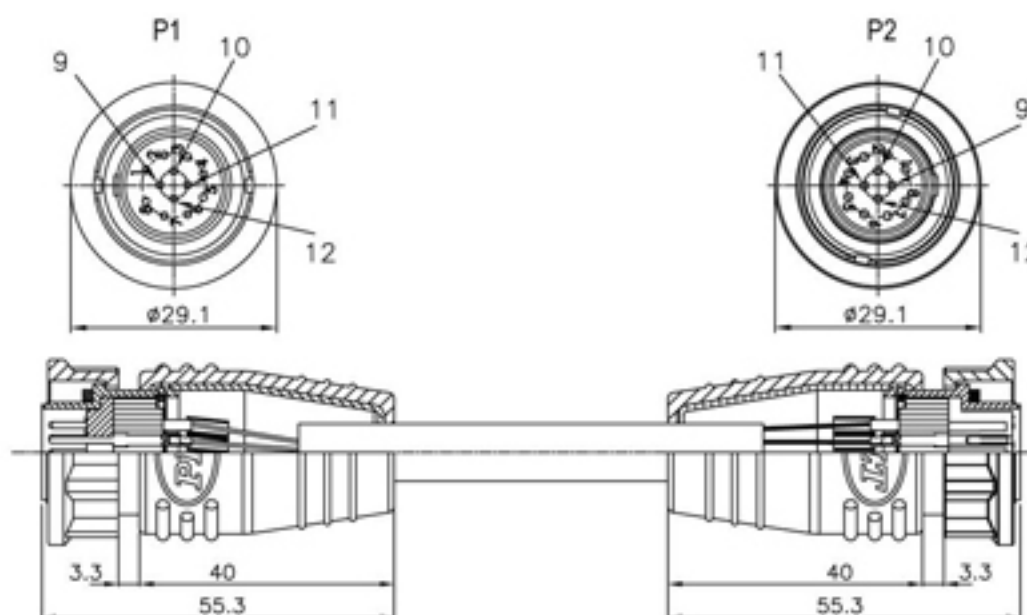
◆ No Electrical Characteristics	5					
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	5A / 20A 250V					
Operation limit voltage (AC.V.rms) 操作電壓限制	200					
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1000					
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	1000					
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3					



♦ No. Electrical Specification	5	10			
Contacts Configuration 接點方位					
Rated current / voltage 額定電流／電壓	15A 250V	10A 250V			
Operation limit voltage (AC.V.rms)	400	250			
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1800	1000			
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	2000 MΩ	2000 MΩ			
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3			
Solder inter diameter 焊孔內徑	2.8	1.6			



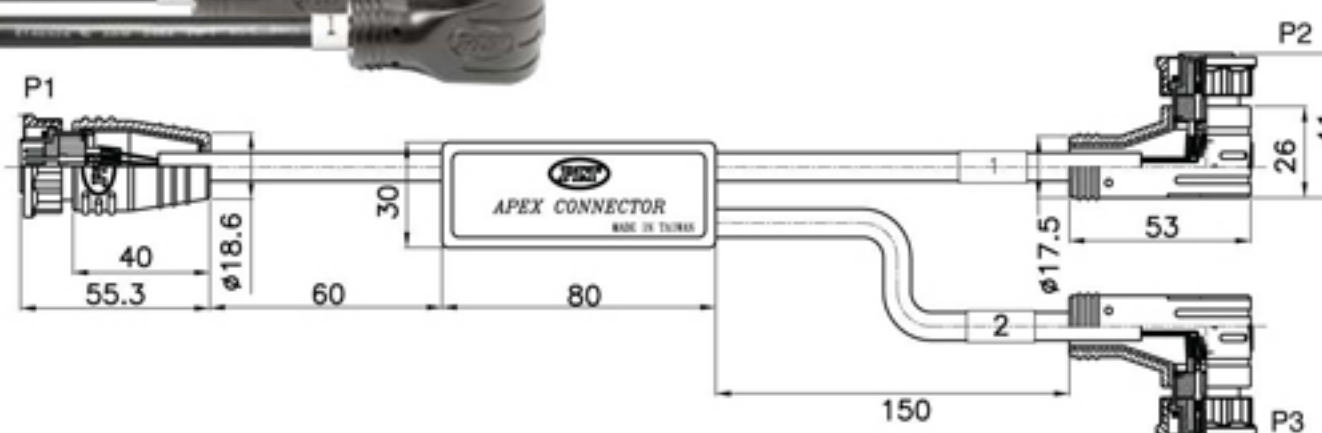
WA-715A



◆ No. Electrical Specification	P1	P2
Contacts Configuration 接點方位		
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	$\geq 300V / 1Minute$	$\geq 300V / 1Minute$
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	$\geq 100M\Omega$ at DC 500V	$\geq 100M\Omega$ at DC 500V



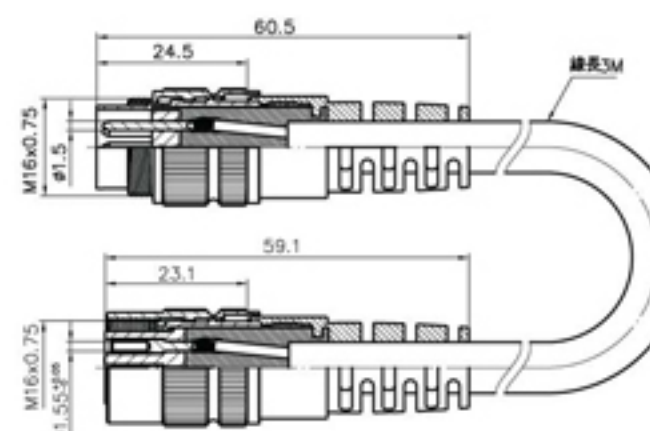
WA-738A



◆ No. Electrical Specification	P1	P2
Contacts Configuration 接點方位		
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	$\geq 300V / 1Minute$	$\geq 300V / 1Minute$
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	$\geq 100M\Omega$ at DC 500V	$\geq 100M\Omega$ at DC 500V



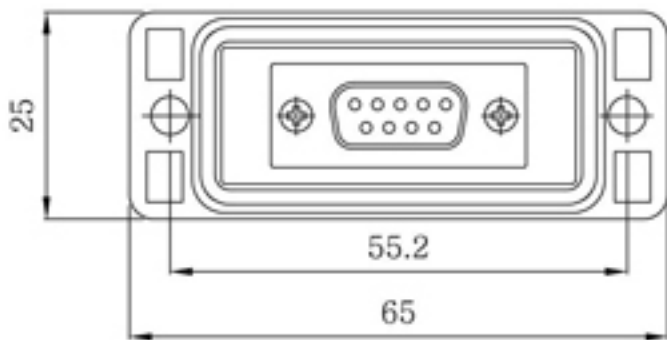
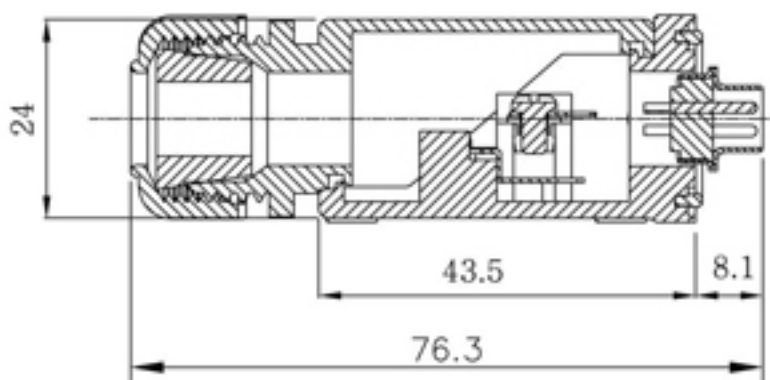
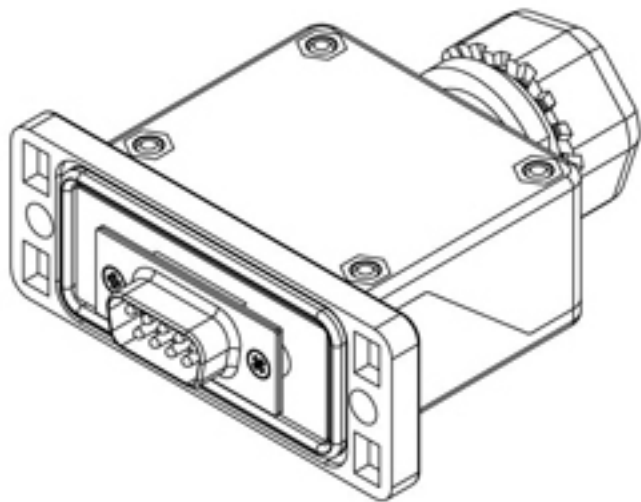
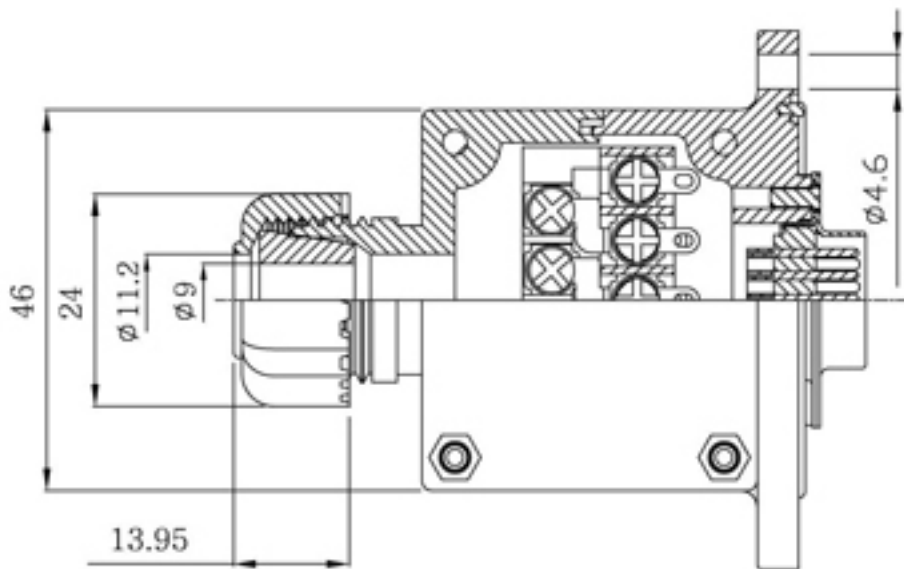
WA-188A



◆ No. of contacts 接點數目	8					
Contacts Configuration 接點方位						
Rated current / voltage 額定電流／電壓	5A 60V					
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	300					
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	100					



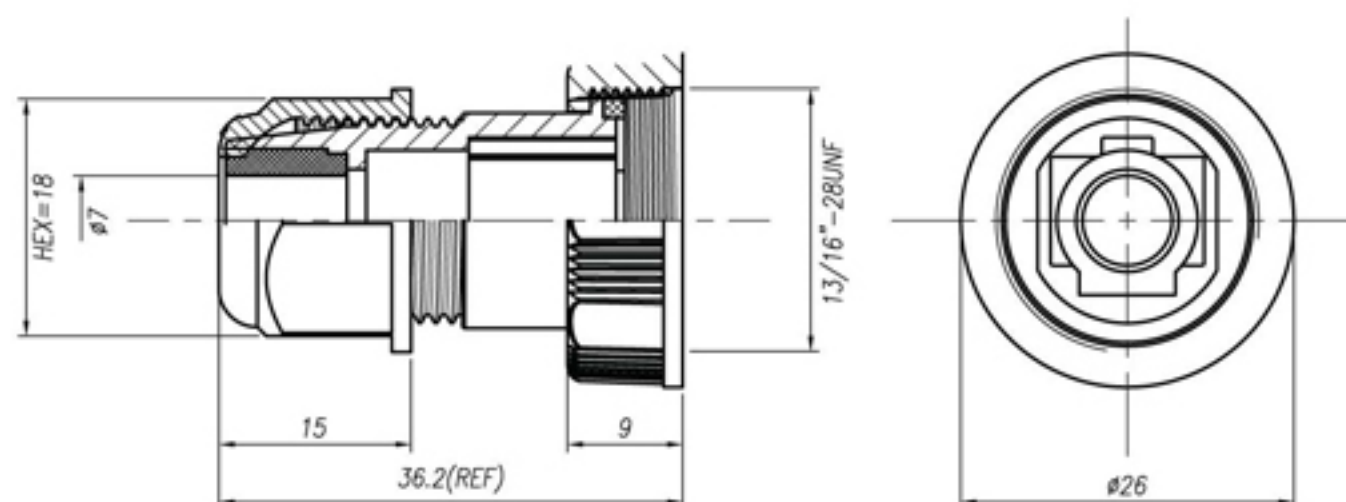
PLP-123-P9



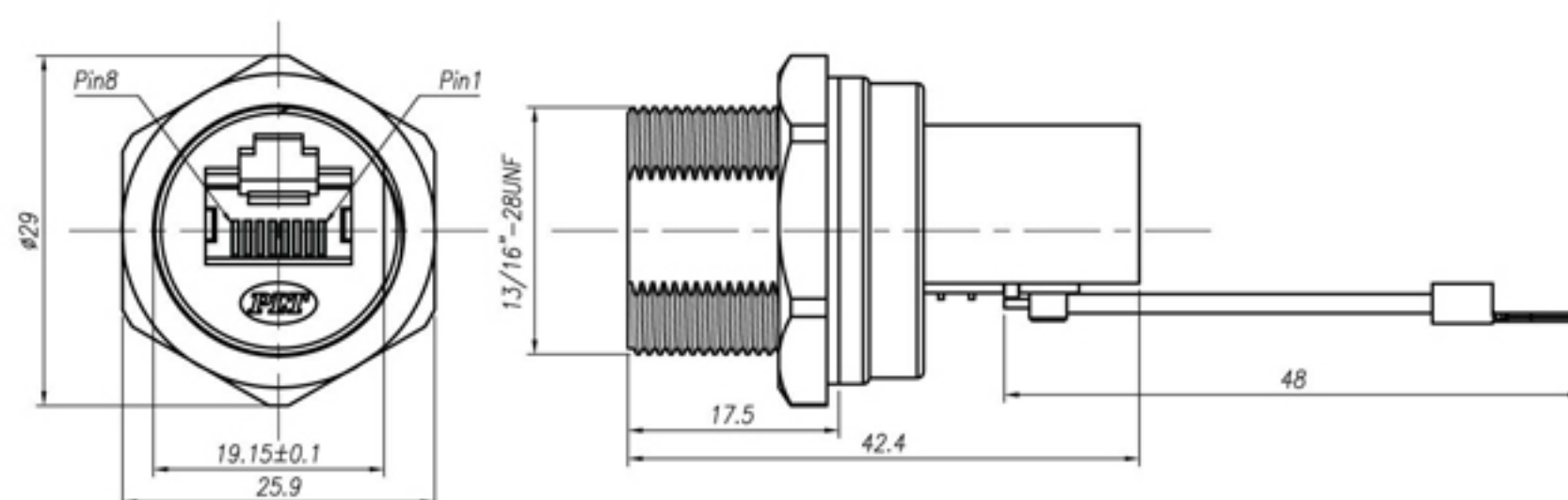
No. of contacts 接點數目	9	15	
Contacts Configuration 接點方位			
Rated current / voltage 額定電流／電壓	3A / AC 350V.	3A / AC 350V.	
Operation limit voltage (AC.V.rms) 操作電壓限制			
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	1250	1250	
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	5000	5000	
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	25	25	



PLP-138P8A-R



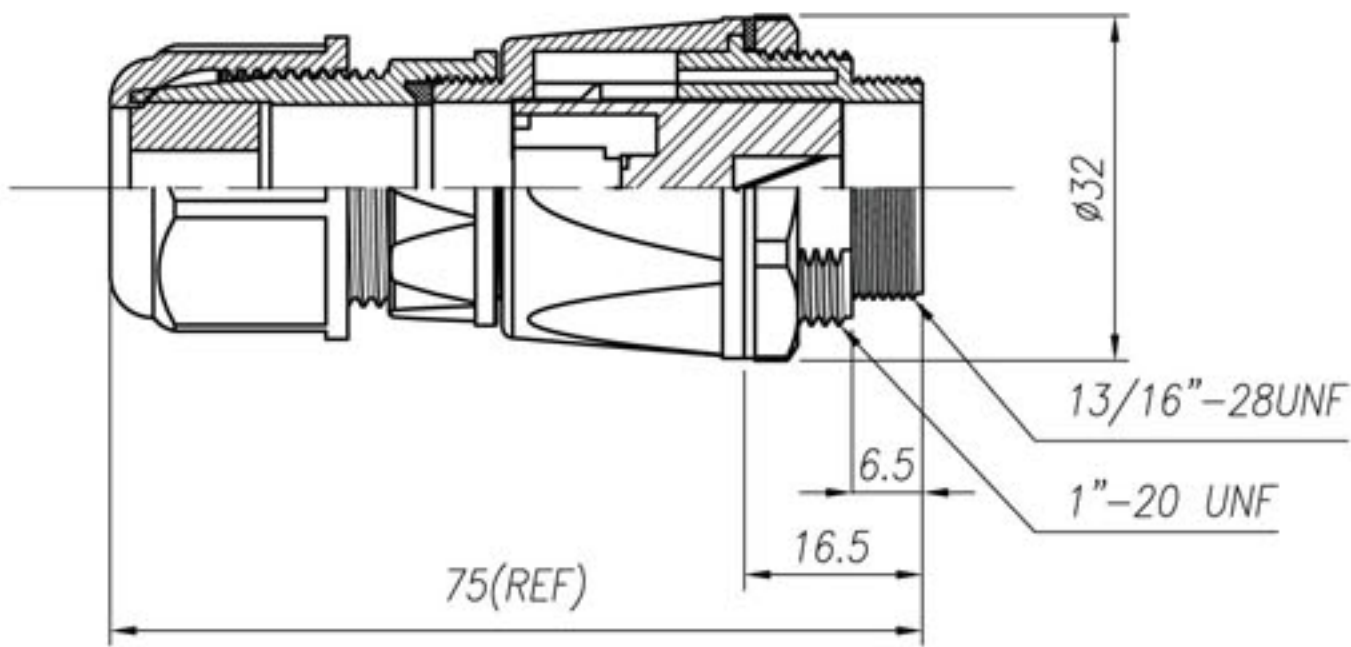
PLP-138R8A-R



No. Electrical Specification		
Rated current / voltage	AC / DC 5V-5mA min. AC / DC 125V-3A max.	
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	AC 300V for 1 minute	
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	500MΩ min. at DC 500V	



PLP-138AD8A-R

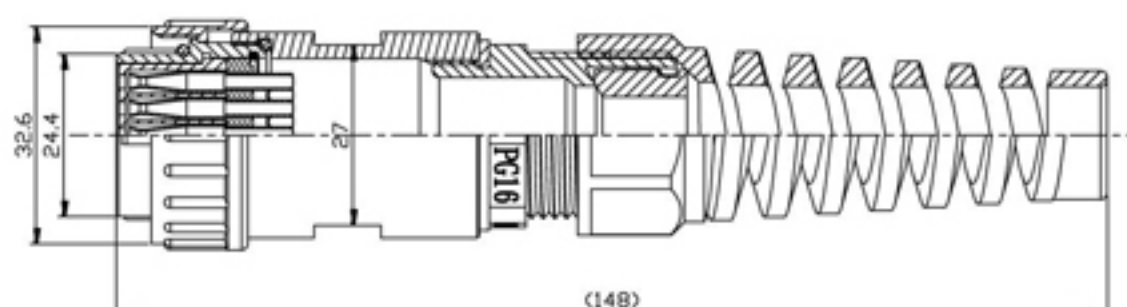
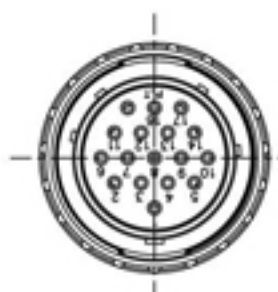
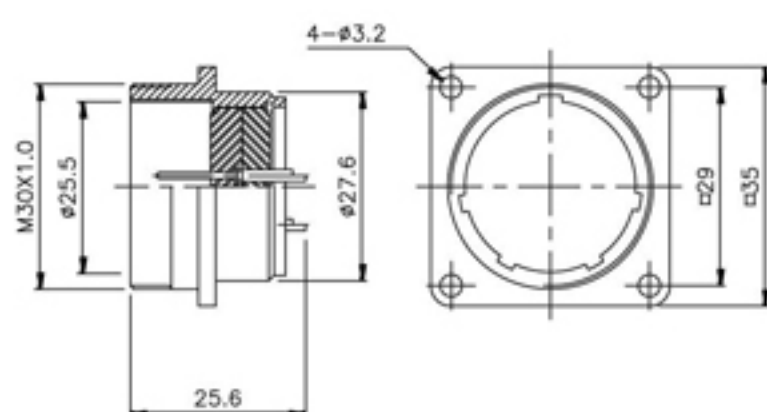


❖ No. Electrical Specification		
Rated current / voltage	AC / DC 5V-5mA min. AC / DC 125V-3A max.	
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	AC 300V for 1 minute	
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	500MΩ min. at DC 500V	



PLS-28◆-RM-R

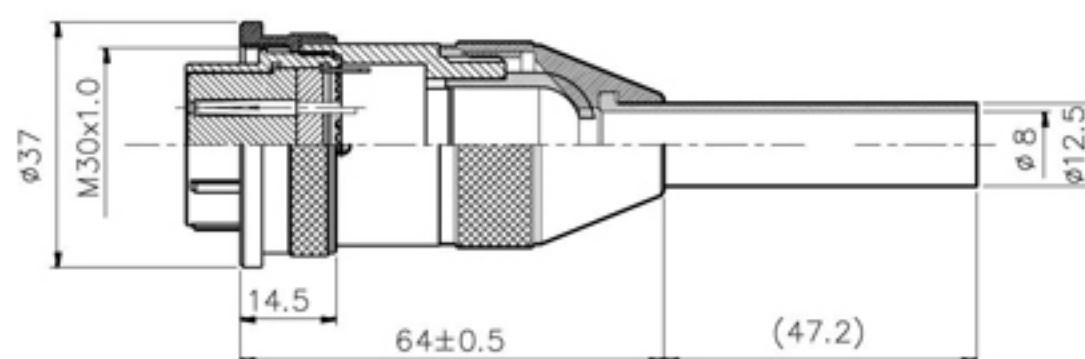
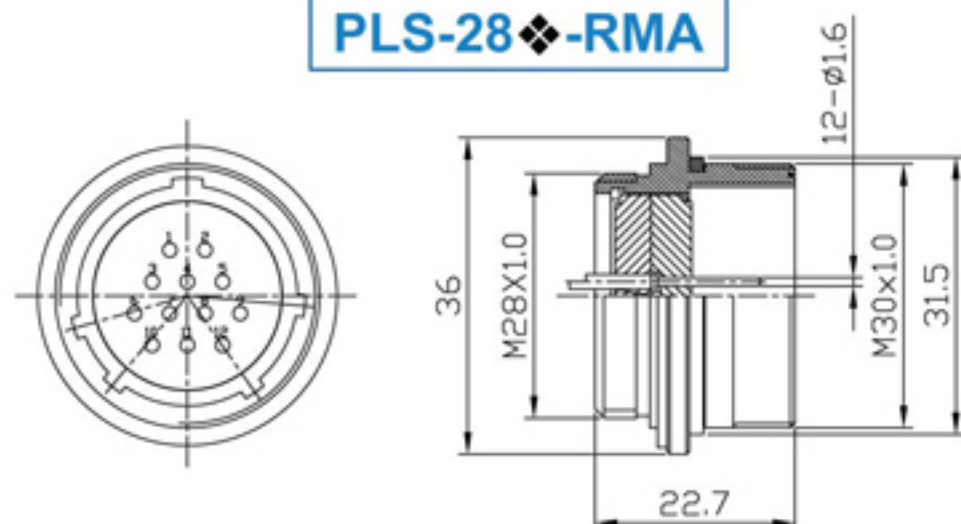
PLS-28◆-PFD



PLS-28◆-RMA

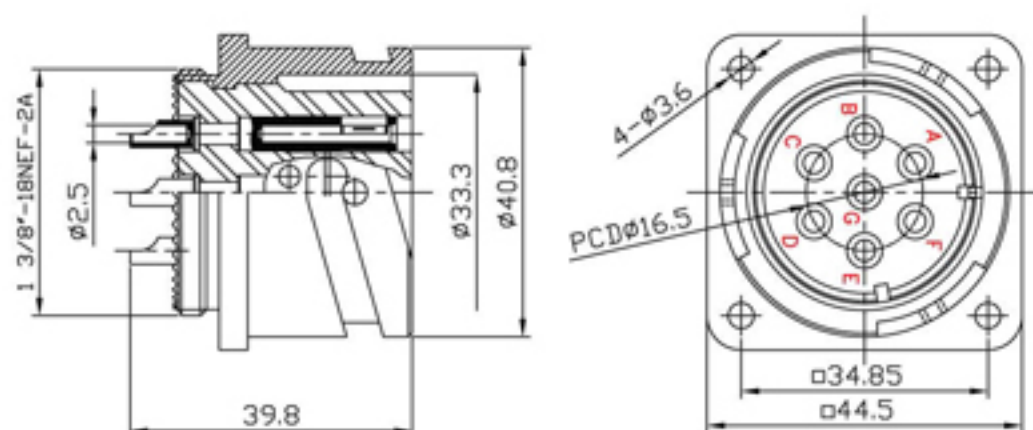
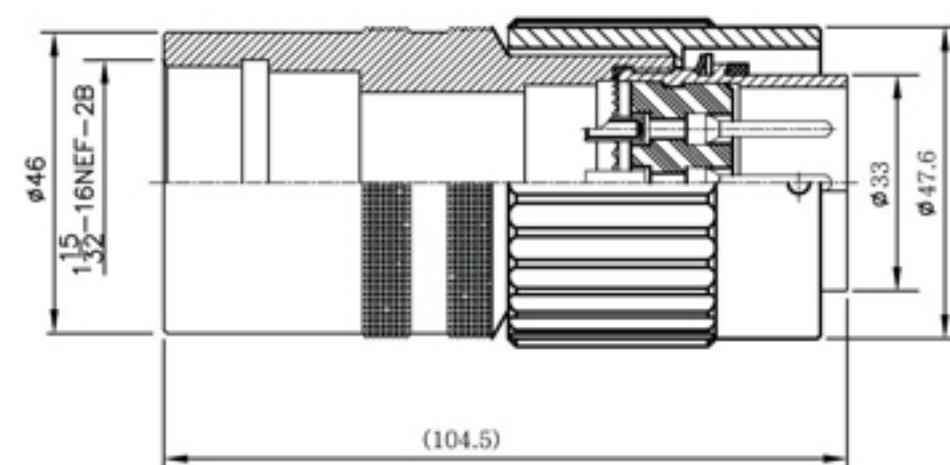
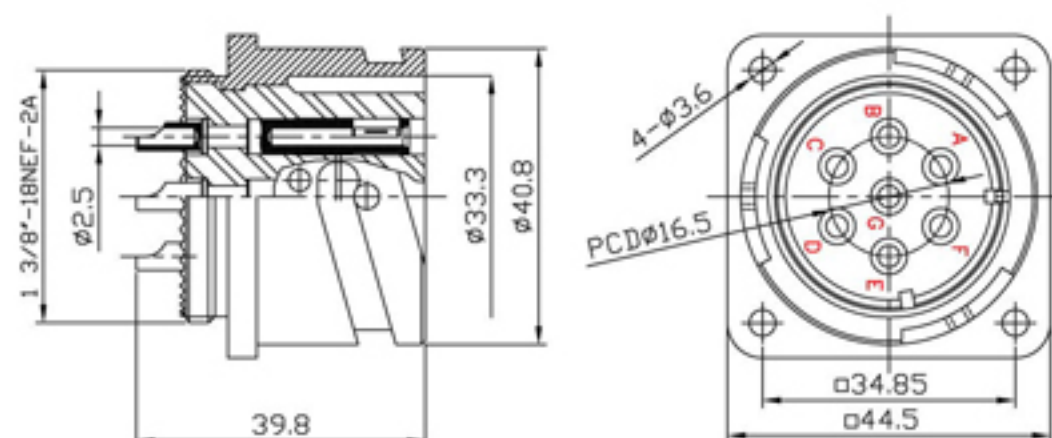
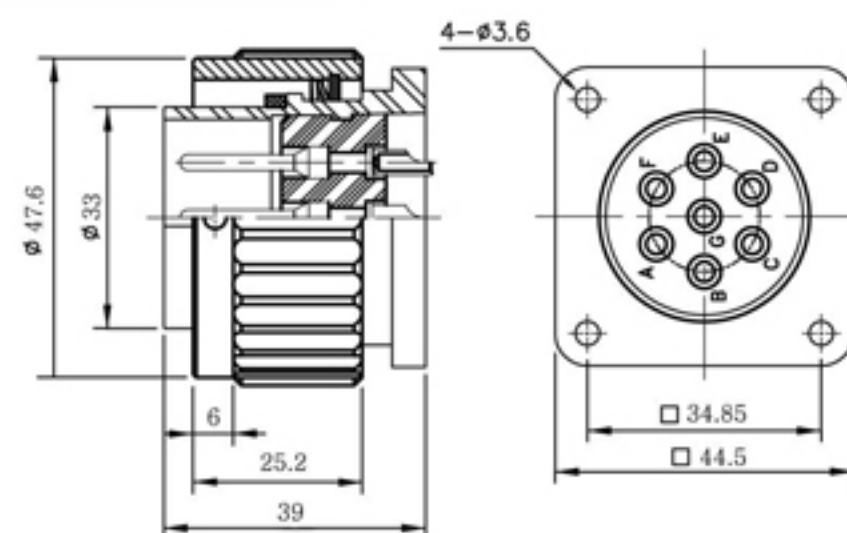
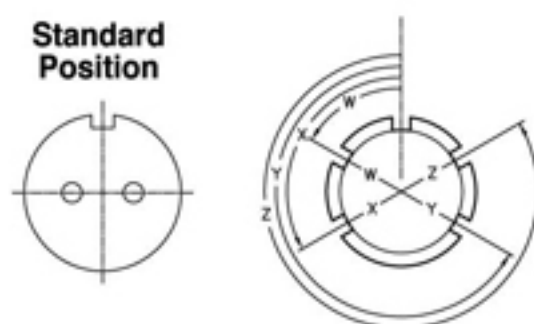


PLS-28◆-PFA



SHELL: STAINLESS STEEL (不鏽鋼)

◆ No. of contacts 接點數目	3	4	7	12	16	17	20	26
Contacts Configuration 接點方位								
Rated current / voltage 額定電流/電壓	15A 250V	15A 250V	15A 250V	15A 250V	10A 250V	10A 250V	5A 250V	5A 250V
Operation limit voltage (AC.V.rms) 操作電壓限制	400	400	400	250	250	250	250	250
Withstanding voltage (AC.V.rms) 1 minute 耐電壓1分鐘	2000	2000	1800	1000	1000	1000	1000	1000
Insulation resistance (MΩ MIN.) at DC 500V 絕緣阻抗	2000	2000	2000	1000	1000	1000	1000	1000
Contact resistance (mΩ MAX.) at DC 1A 接觸阻抗	3	3	3	5	5	5	3	3
Solder inter diameter 焊孔內徑	3.4	3.4	2.4	1.6	1.6	1.6	1.2	1.2


WPS-2407-LF

WPS-2407-LM

WPS-2407-SF

WPS-2407-SM

Standard Position


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

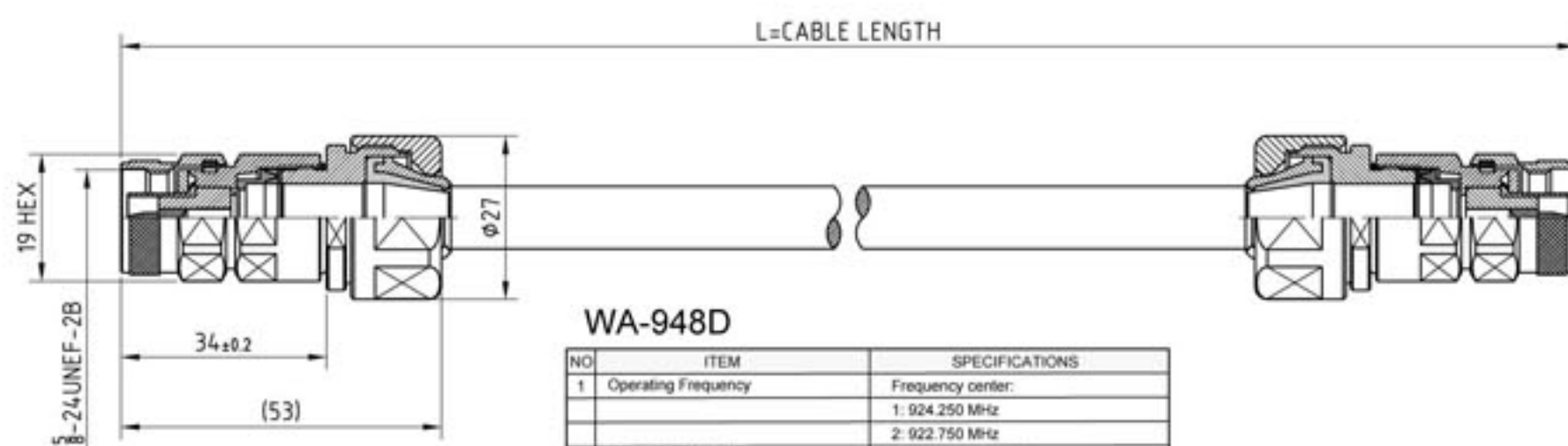
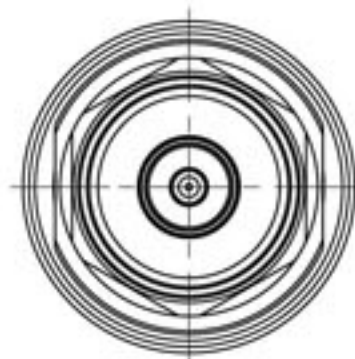
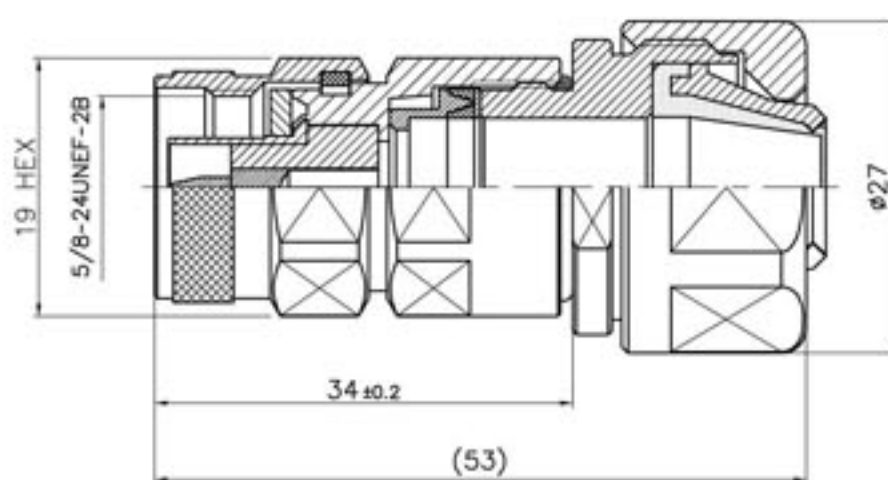
No. ELECTRICAL SPECIFICATION	
Operation voltage (v)	* DC 700 * AC(rms):500
Withstanding voltage	AC 2000V one minute
Test current	22 Amperes
Insulation resistance	5000MΩ min. at DC 500V



N-301P-SXGT



WA-948D



WA-948D		
NO.	ITEM	SPECIFICATIONS
1	Operating Frequency	Frequency center: 1: 924.250 MHz 2: 922.750 MHz
2	Connector VSWR	Max 1.35
3	Connector CABLE LOSS	Min -1.5dB
4	Impedance	50Ω

No. ELECTRICAL SPECIFICATION

Voltage rating	AC 500V
Withstanding voltage	AC 1000V one minute
Insulation resistance	1000MΩ min. at DC 500V
Contact resistance	3mΩ max. at DC 1A

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



專業製造廠 / Manufacturer

錫鋼精密科技股份有限公司

APEX PRECISION TECHNOLOGY CORP.

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