NWPC Series

Waterproof equivalent to IP-X6

Safety standard certified products available

RoHS

Overview

- Waterproof connectors based on NCS Series.
- Shell treated by brass + chrome plating.
- Robust and highly resistant to salt damage to make these connectors suitable for a wide variety of fields including civil engineering and construction machines , emergency power supply systems and ships.

Feature

RoHS	RoHS Directive compliant
Waterproof	Waterproof connector【Waterproof function equivalent to IP-X6 when coupled】
Lock method	Thread lock
Features of mechanism/ material	○ Shell of brass treated by chrome plating to offer superior corrosion resistance. ○ Cable draw-out part provided with cable clamp to ensure firm cable holding (Size 14 excluded).
Standards	○ < CSA NRTL/C > standard certified connectors available. (CSA : C22.2 No.182.3 UL : 1977) Note: The specifications of safety standard certified products are slightly different from those of standard products. For the rated voltage, current and cable conductor cross sectional area, refer to A List of Standards Acquired (p.129).
Cable termination	Soldering

Characteristics

Insulation resistance , Withstand voltage , Contact resistance , Waterproof p.60

The pin contact type has an exposed electrode. If it is used on the [power supply] side, it may cause electric shock or short-circuit accidents. To prevent such accidents, use the socket contact type on the [power supply] side and the pin contact type on the [equipment] side.

【When inserting or extracting the connector, do not turn the connector body.】

NWPC Series

Product No. designation

NWPC - 25 ■ - P M □ _ _

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series designation
② Shell size
③ Number of contacts
④ Shell shape
⑤ Contact shape < Pin (male) contact : M , Socket (female) contact : F >
The S Type of NWPC Series in all shapes of PF, RM, AdM, etc. is indicated simply by P, R, Ad, etc. with the contact shape symbol omitted.
⑥ Symbol indicating cable packing size. 《 Plug & adapter require symbol to be specified. 》
⑦ Additional symbol (-CH) 《 Required only for Shell size 16 》
⑧ Safety standard specification (< CSA NRTL/C >)
《 Required only when safety standard is to be specified. 》 For applicable products, see p.129.

Cable termination : Soldering

Material and Finish

	Material	Finish
Shell	Brass	Chrome plating Partially Tin-cobalt plating (Shell size 16 only)
Insulator	Synthetic resin	—
Contact	Copper alloy	Shell size 14 , 16 , 25 , 30 : Nickel plating Shell size 40 , 44 , 50 , 54 , 60 , 64 : Silver plating Shell size 30 (Number of contacts 7H , 13) : Gold plating
Packing	Synthetic rubber	—

Operating temperature range

-40℃ to +85℃

Exclusive tools (optional) : Contact wrench, soldering iron tip set

The contacts of rated current 80 A or over are constructed for removal from the insulator.
For soldering, remove the contact with a contact wrench.

《 Types of contact wrenches 》

80A Contact Wrench

Used for:
NCS・NWPC-502 / 542
NCS・NWPC-503 / 543
NCS・NWPC-604 / 644

150A Contact Wrench

Used for:
NCS・NWPC-602 / 642
NCS・NWPC-603 / 643

【 80A Contact Wrench、150A Contact Wrench 】
One tool is usable for installation and removal of a male and female contact.

《 Soldering iron tip set 》

Usable soldering iron 200 W
Iron tip inserting diameter ϕ 16 mm or over
Iron tip temperature setting 420℃ to 450℃

Set name ＊ A set of iron tip and heat insulator.
For 80A contact → SS80-KB
For 150A contact → SS150-KB

They are also available individually.
For 80A contact
【 Iron tip → SS80-K 】 【 Heat insulator → SS80-B 】
For 150A contact
【 Iron tip → SS150-K 】 【 Heat insulator → SS150-B 】

NWPC Series Characteristics

Number of contacts ↓

Shell size	Contact	Insulation resistance (MΩ) S Type	Insulation resistance (MΩ) G Type	contact resistance (mΩ) S Type	contact resistance (mΩ) G Type	Withstand voltage (V r.m.s.) S Type	Withstand voltage (V r.m.s.) G Type
14	1	DC 500V 2,000 min.	—	3 max.	—	1,000	—
	2						
16	1	DC 500V 2,000 min.	—	3 max.	—	1,000	—
	2		DC 500V 2,000 min.		3 max.		1,000
	3						
	4		—		—		—
25	2	DC 1,000V 2,000 min.	DC 1,000V 2,000 min.	3 max.	3 max.	2,000	2,000
	3						
	4						
	5					1,800	1,800
	6						
	7						
	8		—		—		—
30	2	DC 1,000V 2,000 min.	DC 1,000V 2,000 min.	3 max.	3 max.	2,000	2,000
	3						
	4						
	5					1,800	1,800
	6						
	7		—		—		—
	8		DC 1,000V 2,000 min.		3 max.		1,800
	7H	DC 500V 2,000 min.	—		—	1,500	—
	13						
40 (S Type) 44 (G Type)	2	DC 1,000V 2,000 min.	DC 1,000V 2,000 min.	3 max.	3 max.	2,500	2,500
	3						
	4						
	5					2,000	2,000
	6						
	8						
	10					1,800	1,800
	12						
	16						
	20						

Number of contacts ↓

Shell size	Contact	Insulation resistance (MΩ) S Type	Insulation resistance (MΩ) G Type	contact resistance (mΩ) S Type	contact resistance (mΩ) G Type	Withstand voltage (V r.m.s.) S Type	Withstand voltage (V r.m.s.) G Type
50 (S Type) 54 (G Type)	2	DC 1,000V 5,000 min.	DC 1,000V 5,000 min.	1 max.	1 max.	3,000	3,000
	3						
	4	DC 1,000V 2,000 min.	DC 1,000V 2,000 min.	3 max.	3 max.	2,500	2,500
	8					2,000	2,000
	10						
	15						
	25					1,800	1,800
60	2	DC 1,000V 5,000 min.	—	1 max.	—	3,000	—
	3						
	4						
	10	DC 1,000V 2,000 min.	DC 1,000V 2,000 min.	3 max.	3 max.	2,500	2,000
	15						
	30					1,800	1,500
	32						
	40		—		—		—
64	2	—	DC 1,000V 5,000 min.	—	1 max.	—	3,000
	3						
	4						

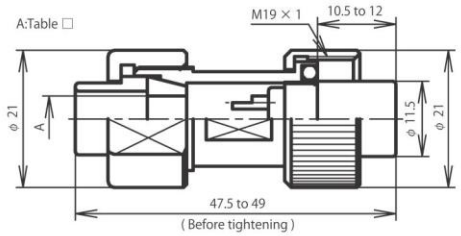
■ includes safety standard compliant products.

(Waterproof) No trace of water exposure after being submerged 5 cm below water for 24 hours in the coupled state in its normal state of use.

NWPC Series Shell Size 14

S Type

【Power supply side】< Socket (female) contact used >

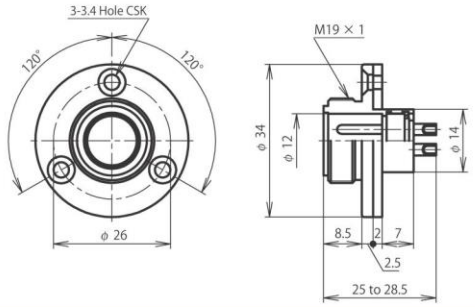


NWPC-14 ■ -P □

Plug

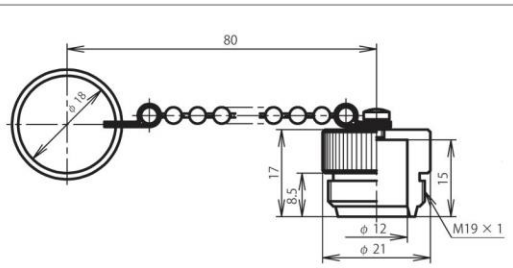
Coupled

【Power receiving side】< Pin (male) contact used >

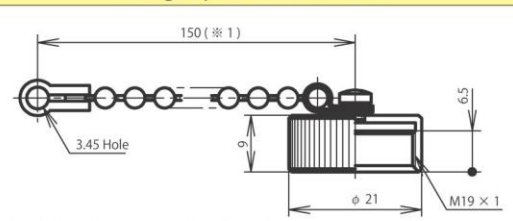


NWPC-14 ■ -R

Receptacle

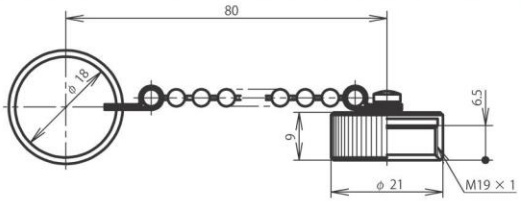


Plug cap : NWPC-14-PCa



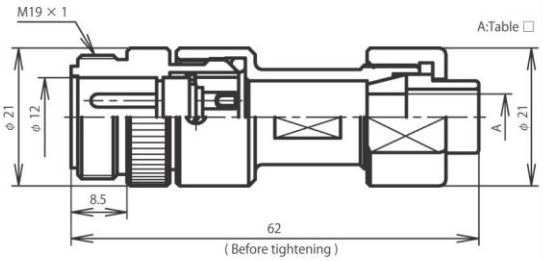
(※ 1) Length 70 mm also available. (Example : NWPC-14-RCa L70)

Receptacle cap : NWPC-14-RCa



Adapter cap : NWPC-14-AdCa

Accessory



NWPC-14 ■ -Ad □

Adapter

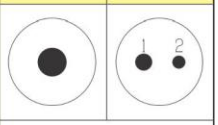
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
14	5	ϕ 5.0 to ϕ 5.9
	6	ϕ 6.0 to ϕ 6.9
	7	ϕ 7.0 to ϕ 8.0

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

Shell size	Number of Contacts	1	2
14	Contact arrangement <When viewed from the pin (male) contact coupling side>		
	Safety standard	—	
	Rating	125V 5A	
	Limit operating voltage (Note-1)	200V	
	Withstand voltage (V r.m.s.)	1,000	
	Wire size (㎟)	0.75	

Note-1 : For the limit operating voltage, see p.131.

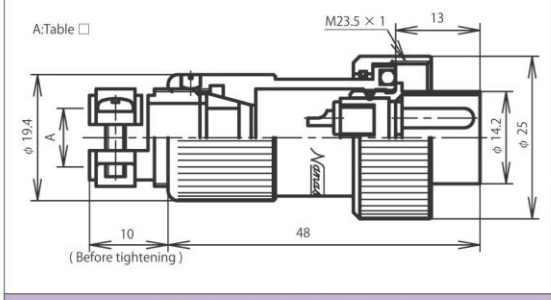
NWPC Series Shell Size 16

【 Power receiving side 】< Pin (male) contact used >

G Type

【 Power supply side 】< Socket (female) contact used >

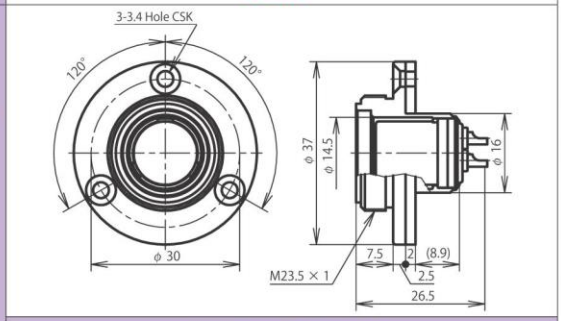
Plug



NWPC-16 ■ -PM □ -CH

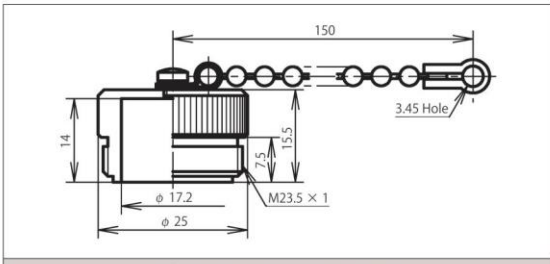
Coupled

Receptacle

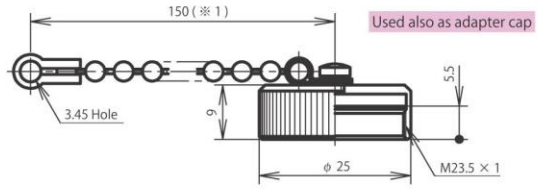


NWPC-16 ■ -RF-CH

Accessory



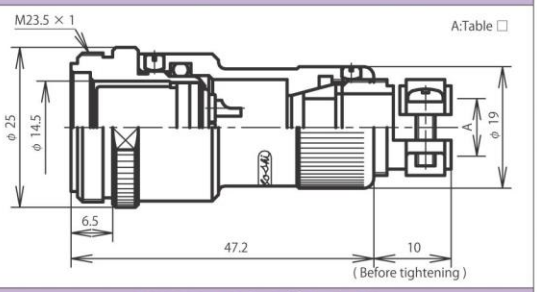
Plug cap : NWPC-16-PCa



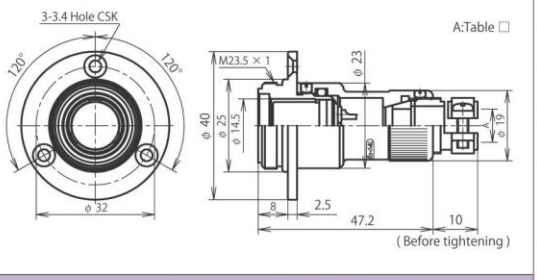
(※ 1) Length 70 mm also available. (Example : NWPC-16-RCa L70)

Receptacle cap : NWPC-16-RCa

Adapter



NWPC-16 ■ -AdF □ -CH



NWPC-16 ■ -AdF(F) □ -CH

"-CH" is an additional symbol of renewed products. They are interchangeable with products before renewal.

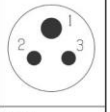
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
16	5	ϕ 4.5 to ϕ 6.0
	7	ϕ 6.1 to ϕ 8.0
	9	ϕ 8.1 to ϕ 10.0

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

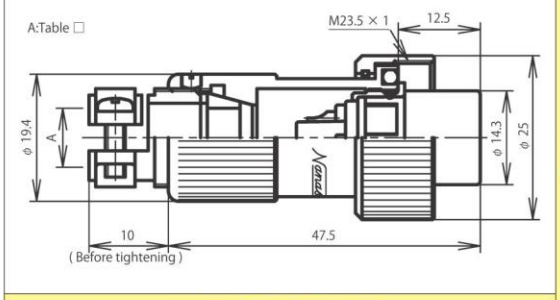
Shell size	Number of Contacts	2	3
16	Contact arrangement <When viewed from the pin (male) contact coupling side>		
	Rating	125V 5A	
	Limit operating voltage (Note-1)	200V	
	Withstand voltage (V r.m.s.)	1,000	
	Wire size (㎟)	0.75	

Note-1 : For the limit operating voltage, see p.131.

NWPC Series Shell Size 16

S Type

【Power supply side】< Socket (female) contact used >

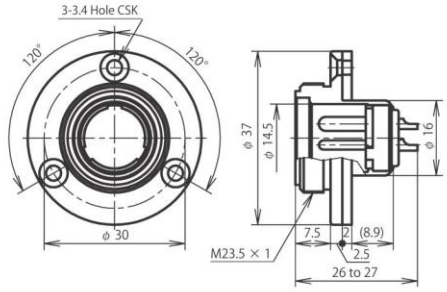


Plug

NWPC-16 ■ -P □ -CH

Coupled

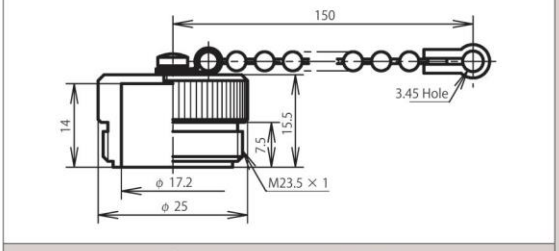
【Power receiving side】< Pin (male) contact used >



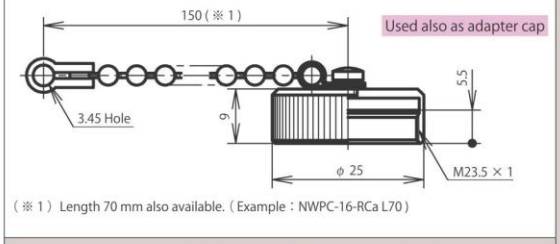
Receptacle

NWPC-16 ■ -R-CH

Accessory



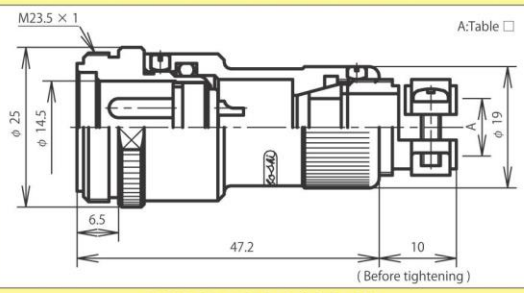
Plug cap : NWPC-16-PCa



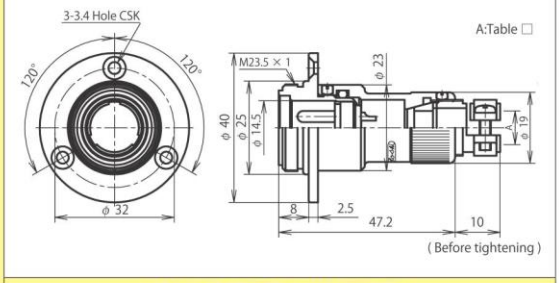
(※ 1) Length 70 mm also available. (Example : NWPC-16-RCa L70)

Receptacle cap : NWPC-16-RCa

Adapter



NWPC-16 ■ -Ad □ -CH



NWPC-16 ■ -Ad(F) □ -CH

"-CH" is an additional symbol of renewed products. They are interchangeable with products before renewal.

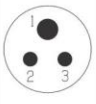
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
16	5	ϕ 4.5 to ϕ 6.0
	7	ϕ 6.1 to ϕ 8.0
	9	ϕ 8.1 to ϕ 10.0

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

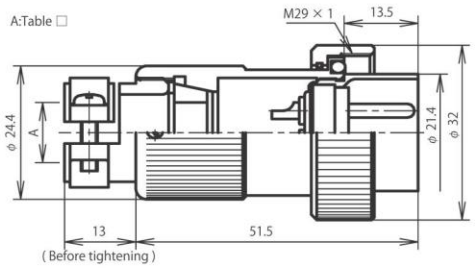
Shell size	Number of Contacts	1	2	3	4
16	Contact arrangement <When viewed from the pin (male) contact coupling side>				
	Rating	125V 10A	125V 5A		
	Limit operating voltage (Note-1)	200V			
	Withstand voltage (V r.m.s.)	1,000			
	Wire size (㎟)	1.25	0.75		

Note-1 : For the limit operating voltage, see p.131.

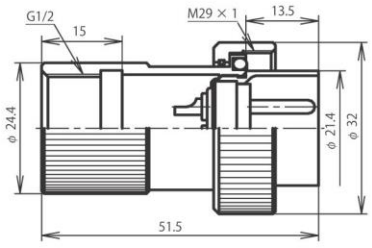
NWPC Series Shell Size 25

G Type

【Power receiving side】< Pin (male) contact used >



NWPC-25 ■ -PM □



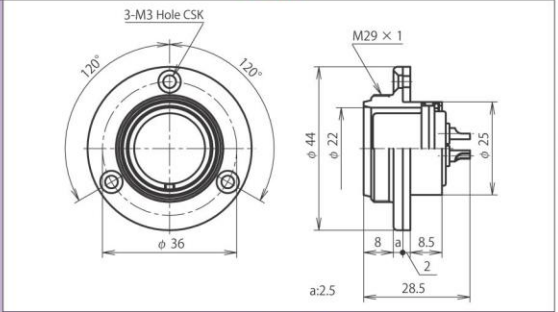
NWPC-25 ■ -GPM1/2 (Note)

Plug

Coupled

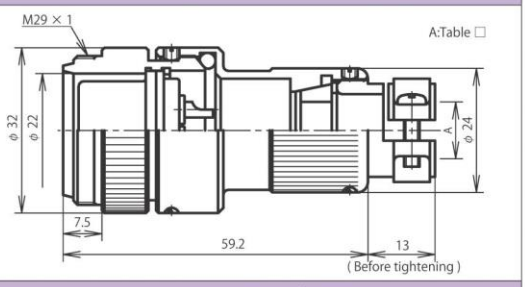
Receptacle

【Power supply side】< Socket (female) contact used >

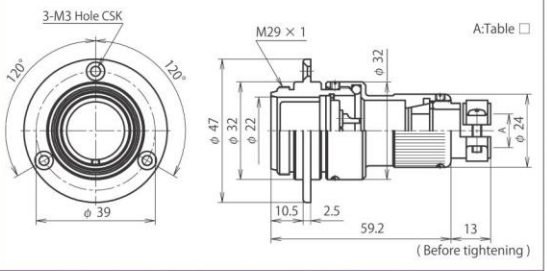


NWPC-25 ■ -RF

Adapter

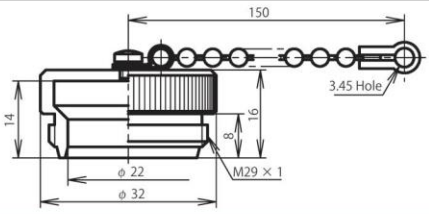


NWPC-25 ■ -AdF □

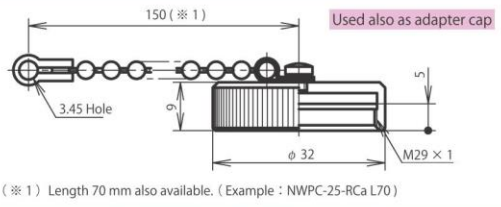


NWPC-25 ■ -AdF(F) □

Accessory



Plug cap : NWPC-25-PCa



(※ 1) Length 70 mm also available. (Example : NWPC-25-RCa L70)

Receptacle cap : NWPC-25-RCa

For the plug and adapter , be sure to select □ (cable packing symbol).

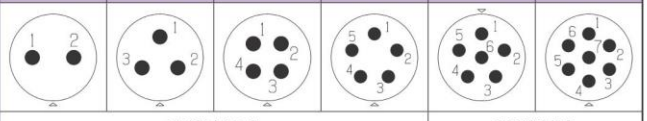
Note: We show sizes by the nominal "G(PF)" of parallel pipe threads. p.135
The waterproof of the conduit installation part depends on the conduit connecting components to use.

Table □

Shell size	Symbol □	Outer diameter of cable used
25	7	ϕ 6.5 to ϕ 8.0
	9	ϕ 8.1 to ϕ 10.0
	11	ϕ 10.1 to ϕ 12.0
	13	ϕ 12.1 to ϕ 14.0

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

Shell size	Number of Contacts	2	3	4	5	6	7
25	Contact arrangement <When viewed from the pin (male) contact coupling side>						
	Rating	250V 10A				250V 5A	
	Limit operating voltage (Note-1)	400V				300V	
	Withstand voltage (V r.m.s.)	2,000			1,800		
	Wire size (㎟)	2			1.25		

Note-1 : For the limit operating voltage, see p.131.

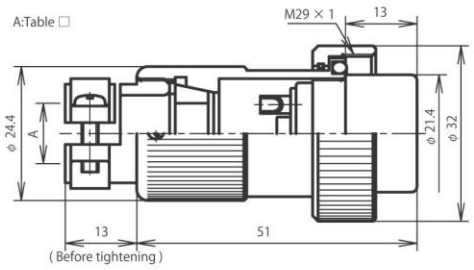
NWPC Series Shell Size 25

【 Power supply side 】< Socket (female) contact used >

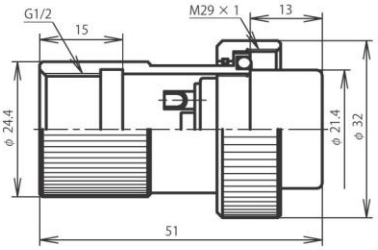
S Type

【 Power receiving side 】< Pin (male) contact used >

Plug



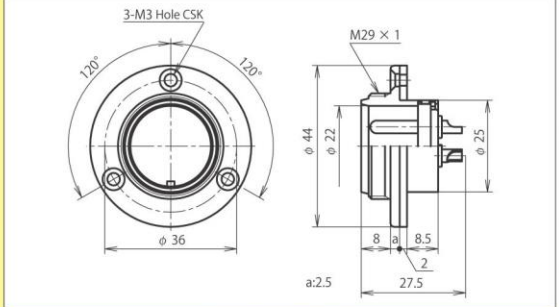
NWPC-25 ■ -P □



NWPC-25 ■ -GP1/2 (Note)

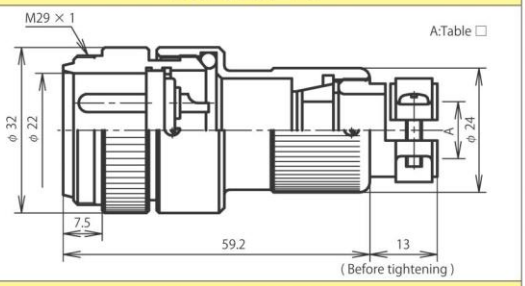
Coupled

Receptacle

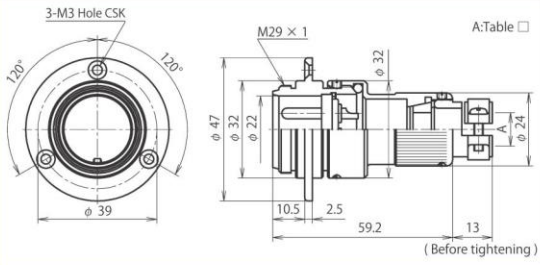


NWPC-25 ■ -R

Adapter

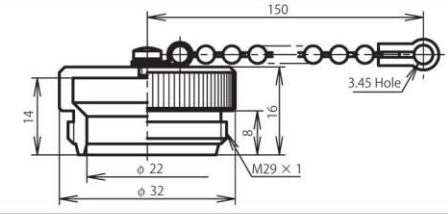


NWPC-25 ■ -Ad □

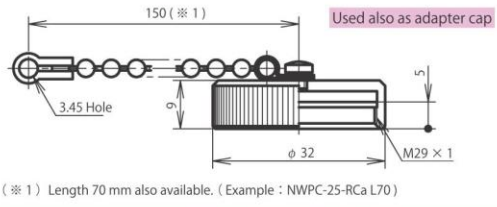


NWPC-25 ■ -Ad(F) □

Accessory



Plug cap : NWPC-25-PCa



(※ 1) Length 70 mm also available. (Example : NWPC-25-RCa L70)

Receptacle cap : NWPC-25-RCa

For the plug and adapter , be sure to select □ (cable packing symbol).

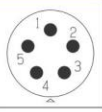
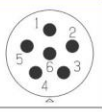
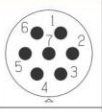
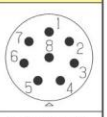
Note: We show sizes by the nominal "G(PF)" of parallel pipe threads. p.135
The waterproof of the conduit installation part depends on the conduit connecting components to use.

Table □

Shell size	Symbol □	Outer diameter of cable used
25	7	ϕ 6.5 to ϕ 8.0
	9	ϕ 8.1 to ϕ 10.0
	11	ϕ 10.1 to ϕ 12.0
	13	ϕ 12.1 to ϕ 14.0

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

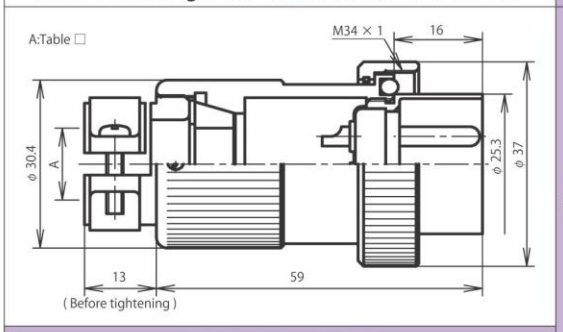
■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

Shell size	Number of Contacts	2	3	4	5	6	7	8
25	Contact arrangement <When viewed from the pin (male) contact coupling side>							
	Rating	250V 10A						250V 5A
	Limit operating voltage (Note-1)	400V				300V		
	Withstand voltage (V r.m.s.)	2,000			1,800			
	Wire size (mm²)	2						1.25

Note-1 : For the limit operating voltage, see p.131.

NWPC Series Shell Size 30

【Power receiving side】< Pin (male) contact used >



NWPC-30 ■ -PM □

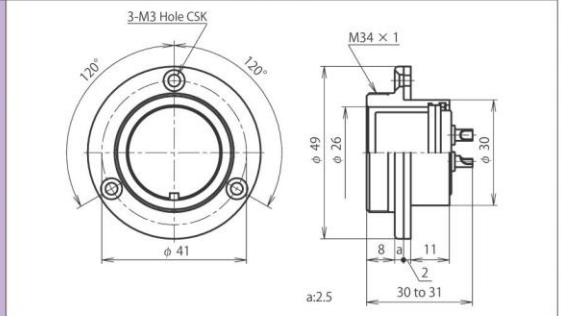
Plug

G Type

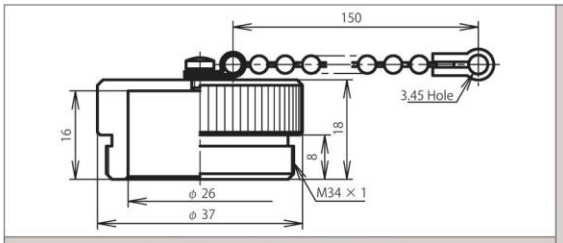
Coupled

Receptacle

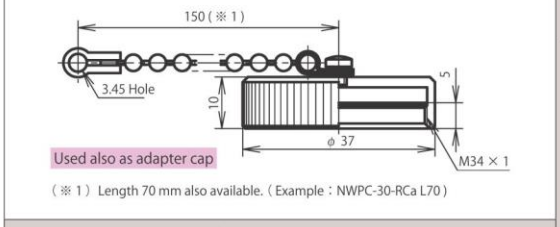
【Power supply side】< Socket (female) contact used >



NWPC-30 ■ -RF



Plug cap : NWPC-30-PCa

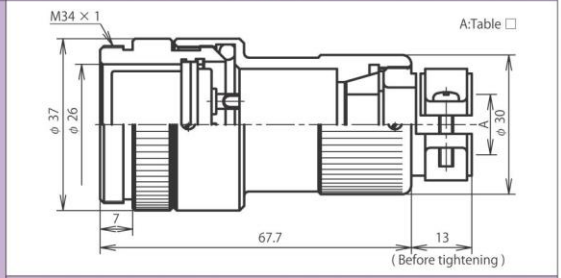


(※ 1) Length 70 mm also available. (Example : NWPC-30-RCa L70)

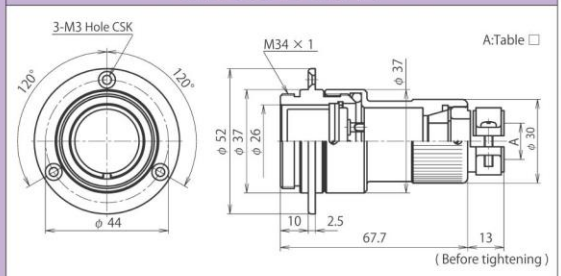
Receptacle cap : NWPC-30-RCa

Accessory

Adapter



NWPC-30 ■ -AdF □



NWPC-30 ■ -AdF(F) □

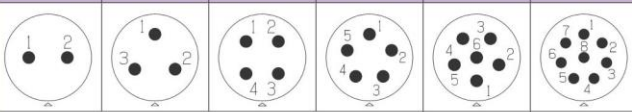
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

Shell size	Symbol □	Outer diameter of cable used
30	9	ϕ 8.0 to ϕ 10.0
	11	ϕ 10.1 to ϕ 12.0
	13	ϕ 12.1 to ϕ 14.0
	15	ϕ 14.1 to ϕ 16.4
	17	ϕ 16.5 to ϕ 18.0

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

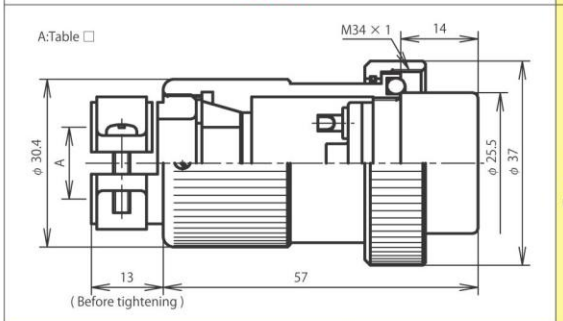
Shell size	Number of Contacts	2	3	4	5	6	8
30	Contact arrangement <When viewed from the pin (male) contact coupling side>						
	Rating	250V 15A				250V 10A	250V 5A
	Limit operating voltage (Note-1)	400V				—	300V
	Withstand voltage (V r.m.s.)	2,000			1,800		
	Wire size (㎟)	2					1.25

Note-1 : For the limit operating voltage, see p.131.

NWPC Series Shell Size 30

S Type

【Power supply side】< Socket (female) contact used >

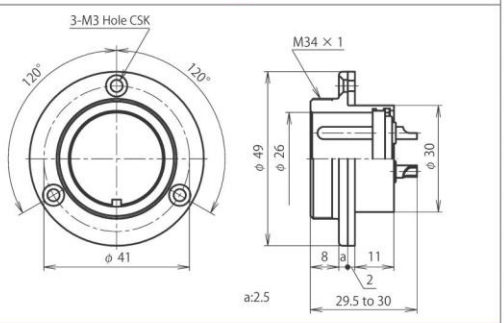


Plug

NWPC-30 ■ -P □

Coupled

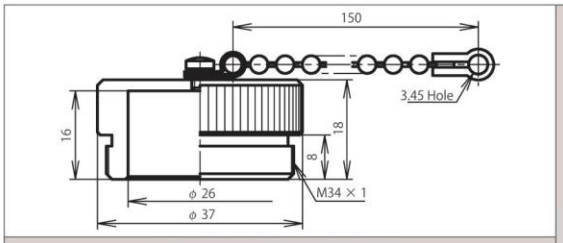
【Power receiving side】< Pin (male) contact used >



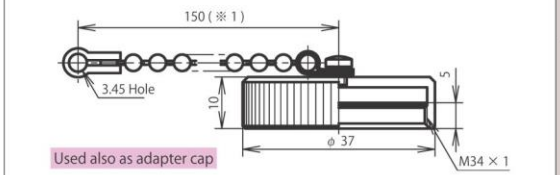
Receptacle

NWPC-30 ■ -R

Accessory



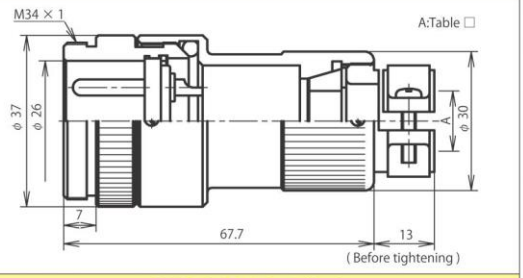
Plug cap : NWPC-30-PCa



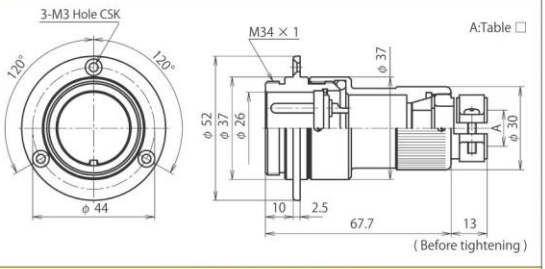
(※ 1) Length 70 mm also available. (Example : NWPC-30-RCa L70)

Receptacle cap : NWPC-30-RCa

Adapter



NWPC-30 ■ -Ad □



NWPC-30 ■ -Ad(F) □

For the plug and adapter , be sure to select □ (cable packing symbol).

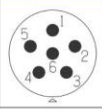
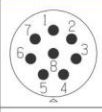
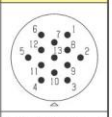
Table □

Shell size	Symbol □	Outer diameter of cable used
30	9	ϕ 8.0 to ϕ 10.0
	11	ϕ 10.1 to ϕ 12.0
	13	ϕ 12.1 to ϕ 14.0
	15	ϕ 14.1 to ϕ 16.4
	17	ϕ 16.5 to ϕ 18.0

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

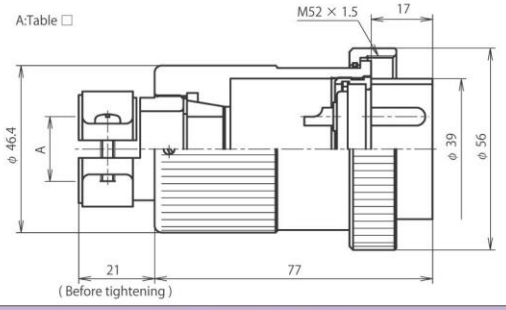
[ ] : Gold plating contact

Shell size	Number of Contacts	2	3	4	5	6	7	7H	8	13
30	Contact arrangement <When viewed from the pin (male) contact coupling side>									
	Rating	250V 15A						250V[7A]	250V 10A	250V[5A]
	Limit operating voltage (Note-1)	400V						—	300V	—
	Withstand voltage (V r.m.s.)	2,000			1,800			1,500	1,800	1,500
	Wire size (㎟)	3.5	2					1.25	2	1.25

Note-1 : For the limit operating voltage, see p.131.

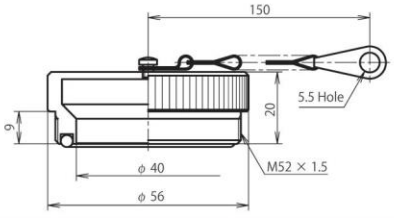
NWPC Series Shell Size 44

【Power receiving side】< Pin (male) contact used >



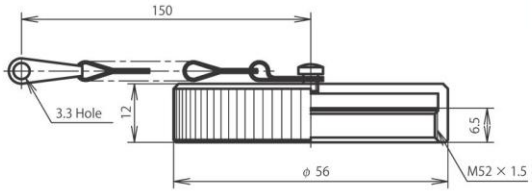
Plug

NWPC-44 ■ -PM □



Accessory

Plug cap : NWPC-44-PCa



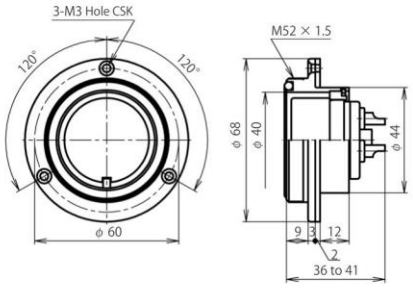
Receptacle cap : NWPC-44-RCa

G Type

Coupled

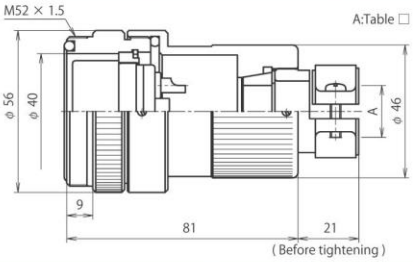
【Power supply side】< Socket (female) contact used >

Receptacle



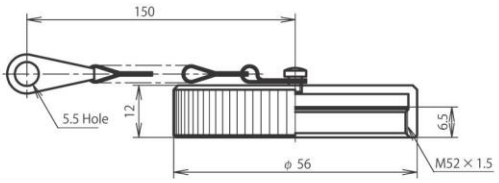
NWPC-44 ■ -RF

Adapter



NWPC-44 ■ -AdF □

Accessory



Adapter cap : NWPC-44-AdCa

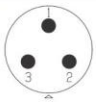
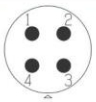
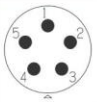
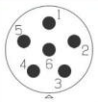
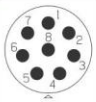
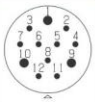
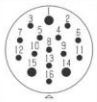
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
44	12	ϕ 11.0 to ϕ 13.0
	14	ϕ 13.1 to ϕ 15.0
	16	ϕ 15.1 to ϕ 17.0
	18	ϕ 17.1 to ϕ 19.0
	20	ϕ 19.1 to ϕ 21.5
	23	ϕ 21.6 to ϕ 23.0

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

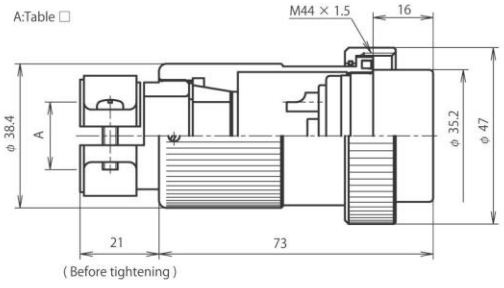
Shell size	Number of Contacts	2	3	4	5	6	8	10	12	16	20
44	Contact arrangement <When viewed from the pin (male) contact coupling side>										
	Rating	250V 30A			250V 20A			250V 3pcs=10A 7pcs= 5A	250V 3pcs=10A 9pcs= 5A	250V 3pcs=10A 13pcs= 5A	250V 5A
	Limit operating voltage (Note-1)	500V			400V			300V			
	Withstand voltage (V r.m.s.)	2,500			2,000			1,800			
	Wire size (㎟)	5.5						3pcs=2 7pcs=1.25	3pcs=2 9pcs=1.25	3pcs=2 13pcs=1.25	1.25

Note-1 : For the limit operating voltage, see p.131.

NWPC Series Shell Size 40

S Type

【Power supply side】< Socket (female) contact used >

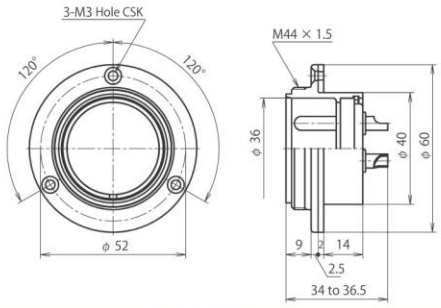


Plug

NWPC-40 ■ -P □

Coupled

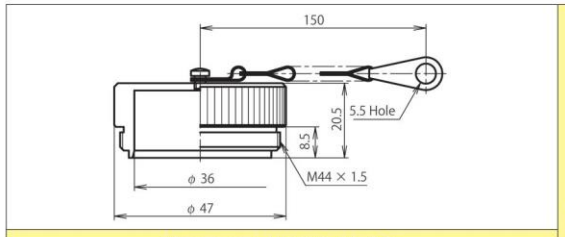
【Power receiving side】< Pin (male) contact used >



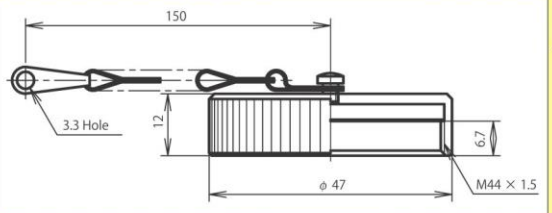
Receptacle

NWPC-40 ■ -R

Accessory

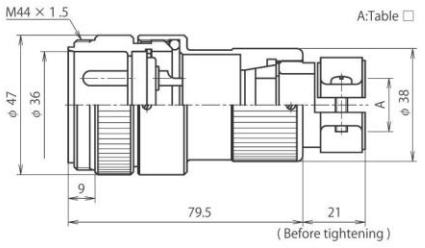


Plug cap : NWPC-40-PCa



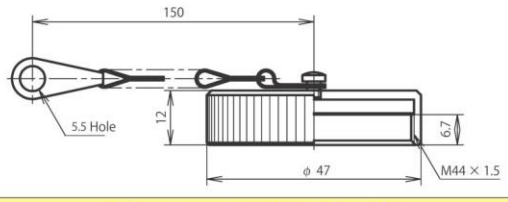
Receptacle cap : NWPC-40-RCa

Adapter



NWPC-40 ■ -Ad □

Accessory



Adapter cap : NWPC-40-AdCa

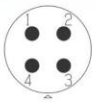
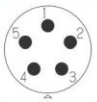
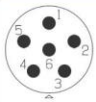
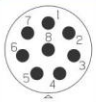
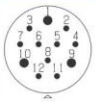
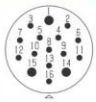
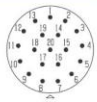
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
40	12	ϕ 11.0 to ϕ 13.0
	14	ϕ 13.1 to ϕ 15.0
	16	ϕ 15.1 to ϕ 17.0
	18	ϕ 17.1 to ϕ 19.0
	20	ϕ 19.1 to ϕ 21.5
	23	ϕ 21.6 to ϕ 23.0

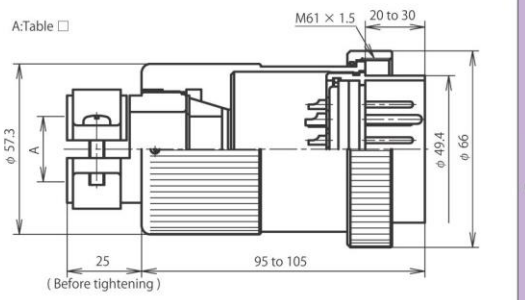
■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

Shell size	Number of Contacts	2	3	4	5	6	8	10	12	16	20
40	Contact arrangement <When viewed from the pin (male) contact coupling side>										
	Rating	250V 30A			250V 20A			250V 3pcs=10A 7pcs= 5A	250V 3pcs=10A 9pcs= 5A	250V 3pcs=10A 13pcs= 5A	250V 5A
	Limit operating voltage (Note-1)	500V			400V			300V			
	Withstand voltage (V r.m.s.)	2,500			2,000			1,800			
	Wire size (㎟)	5.5						3pcs=2 7pcs=1.25	3pcs=2 9pcs=1.25	3pcs=2 13pcs=1.25	1.25

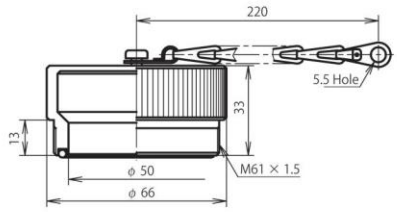
Note-1 : For the limit operating voltage, see p.131.

NWPC Series Shell Size 54

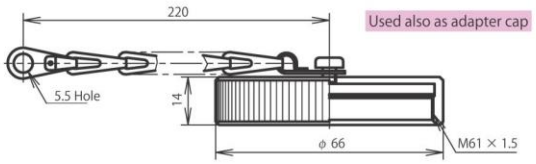
【Power receiving side】< Pin (male) contact used >



NWPC-54 ■ -PM □



Plug cap : NWPC-54-PCa



Receptacle cap : NWPC-54-RCa

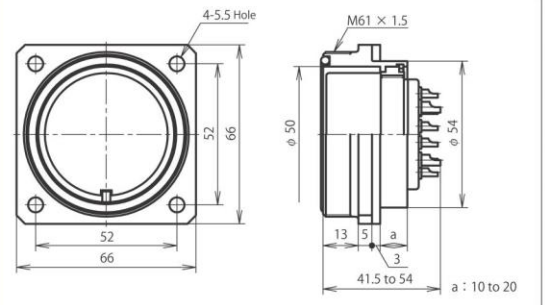
Plug / Accessory

G Type

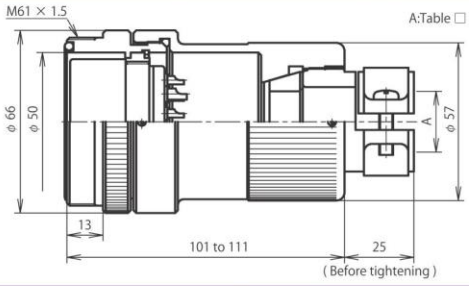
Coupled

Receptacle / Adapter

【Power supply side】< Socket (female) contact used >



NWPC-54 ■ -RF



NWPC-54 ■ -AdF □

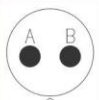
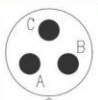
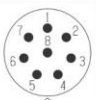
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
54	16	ϕ 15.0 to ϕ 17.0
	18	ϕ 17.1 to ϕ 19.0
	20	ϕ 19.1 to ϕ 21.0
	22	ϕ 21.1 to ϕ 23.0
	24	ϕ 23.1 to ϕ 25.5
	27	ϕ 25.6 to ϕ 28.0

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

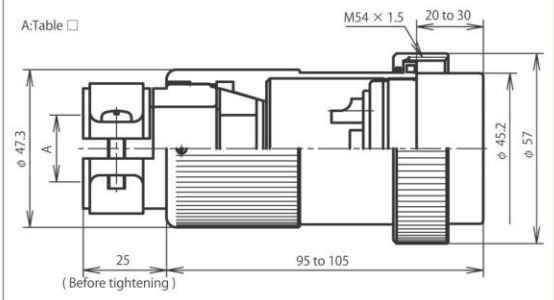
Shell size	Number of Contacts	2	3	4	8	10	15	25
54	Contact arrangement <When viewed from the pin (male) contact coupling side>							
	Rating	500V 80A		250V 50A	250V 25A	250V 20A	250V 15A	250V 4pcs=15A 21pcs= 5A
	Limit operating voltage (Note-1)	600V		500V	400V	300V		
	Withstand voltage (V r.m.s.)	3,000		2,500	2,000			1,800
	Wire size (mm²)	30		14	3.5			4pcs=3.5 21pcs=2

Note-1 : For the limit operating voltage, see p.131.

NWPC Series Shell Size 50

S Type

【Power supply side】< Socket (female) contact used >



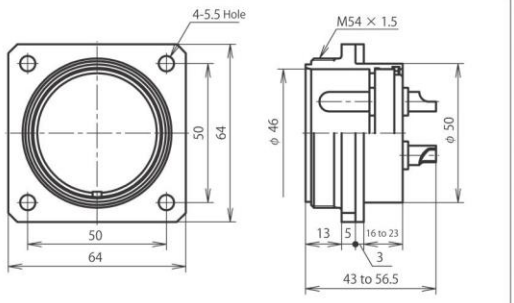
NWPC-50 ■ -P □

Plug

Coupled

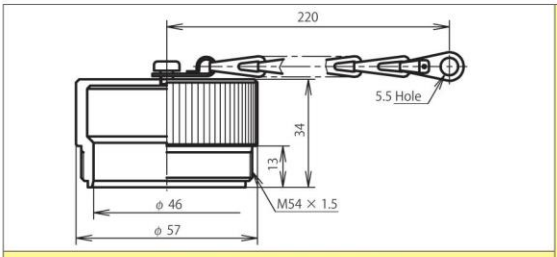
Receptacle

【Power receiving side】< Pin (male) contact used >

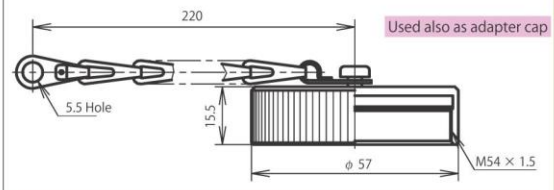


NWPC-50 ■ -R

Accessory

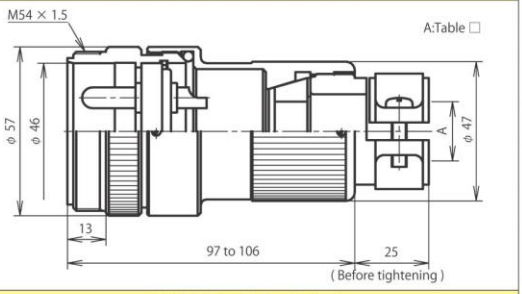


Plug cap : NWPC-50-PCa



Receptacle cap : NWPC-50-RCa

Adapter



NWPC-50 ■ -Ad □

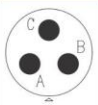
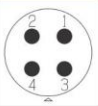
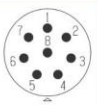
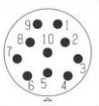
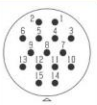
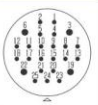
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
50	16	ϕ 15.0 to ϕ 17.0
	18	ϕ 17.1 to ϕ 19.0
	20	ϕ 19.1 to ϕ 21.0
	22	ϕ 21.1 to ϕ 23.0
	24	ϕ 23.1 to ϕ 25.5
	27	ϕ 25.6 to ϕ 28.0

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

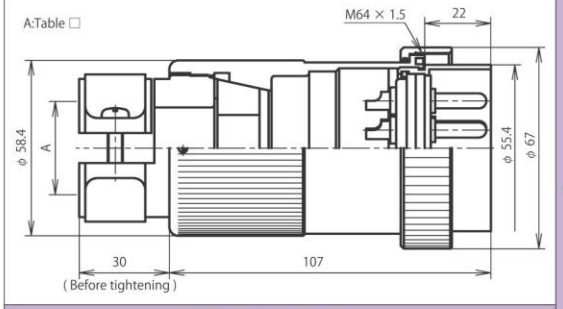
Shell size	Number of Contacts	2	3	4	8	10	15	25
50	Contact arrangement <When viewed from the pin (male) contact coupling side>							
	Rating	500V 80A		250V 50A	250V 25A	250V 20A	250V 15A	250V 4pcs=15A 21pcs= 5A
	Limit operating voltage (Note-1)	600V		500V	400V	300V		
	Withstand voltage (V r.m.s.)	3,000		2,500	2,000			1,800
	Wire size (mm²)	30		14	3.5			4pcs=3.5 21pcs=2

Note-1 : For the limit operating voltage, see p.131.

NWPC Series Shell Size 60

G Type

【Power receiving side】< Pin (male) contact used >

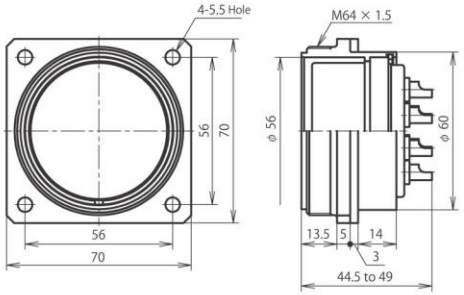


Plug

NWPC-60 ■ -PM □

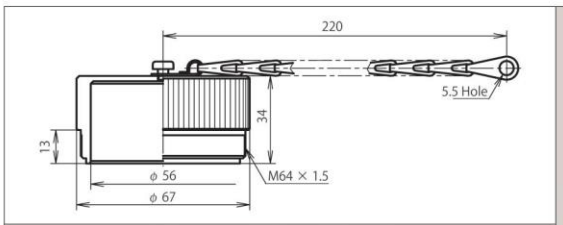
Coupled

【Power supply side】< Socket (female) contact used >

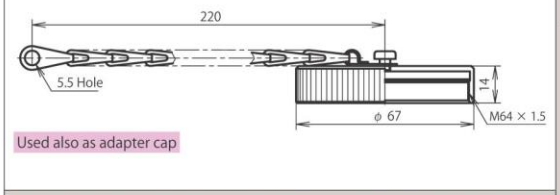


Receptacle

NWPC-60 ■ -RF



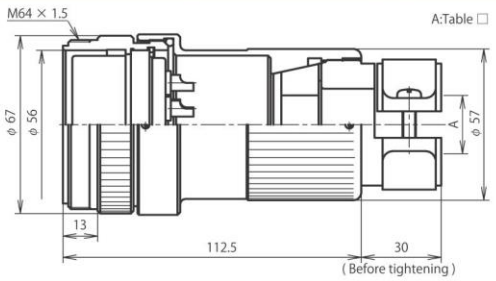
Plug cap : NWPC-60-PCa



Used also as adapter cap

Receptacle cap : NWPC-60-RCa

Accessory



Adapter

NWPC-60 ■ -AdF □

For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
60	22	ϕ 21.0 to ϕ 23.0
	24	ϕ 23.1 to ϕ 25.0
	26	ϕ 25.1 to ϕ 27.0
	28	ϕ 27.1 to ϕ 29.5
	31	ϕ 29.6 to ϕ 32.0
	33	ϕ 32.1 to ϕ 34.0
	35	ϕ 34.1 to ϕ 36.0
	37	ϕ 36.1 to ϕ 38.0

2-, 3- and 4-core types are available in Shell size 64.

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

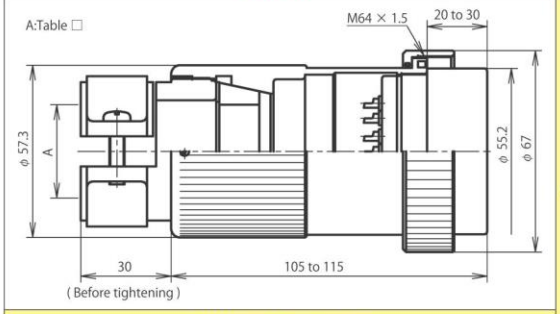
Shell size	Number of Contacts	10	15	30	32
60	Contact arrangement <When viewed from the pin (male) contact coupling side>				
	Safety standard	—			
	Rating	250V 30A	250V 15A	250V 5A	250V 3pcs=15A 29pcs= 5A
	Limit operating voltage (Note-1)	300V			
	Withstand voltage (V r.m.s.)	2,000		1,500	
	Wire size (㎟)	8	3.5	2	3pcs=3.5 29pcs=2

Note-1 : For the limit operating voltage, see p.131.

NWPC Series Shell Size 60

S Type

【Power supply side】< Socket (female) contact used >

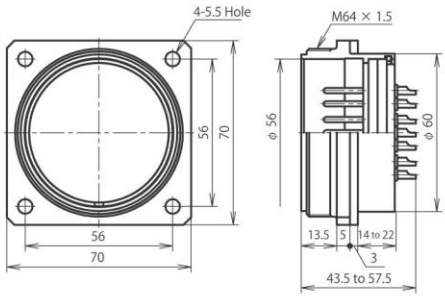


Plug

NWPC-60 ■ -P □

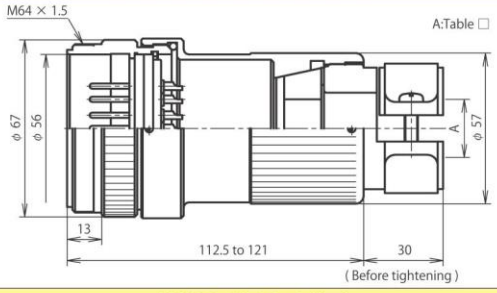
Coupled

【Power receiving side】< Pin (male) contact used >



Receptacle

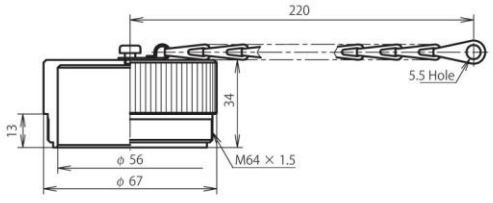
NWPC-60 ■ -R



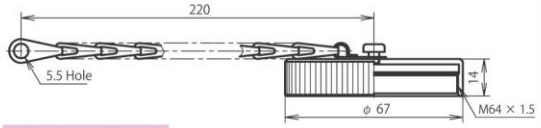
Adapter

NWPC-60 ■ -Ad □

Accessory



Plug cap : NWPC-60-PCa



Used also as adapter cap

Receptacle cap : NWPC-60-RCa

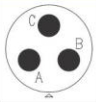
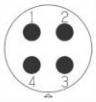
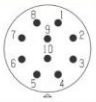
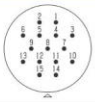
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
60	22	ϕ 21.0 to ϕ 23.0
	24	ϕ 23.1 to ϕ 25.0
	26	ϕ 25.1 to ϕ 27.0
	28	ϕ 27.1 to ϕ 29.5
	31	ϕ 29.6 to ϕ 32.0
	33	ϕ 32.1 to ϕ 34.0
	35	ϕ 34.1 to ϕ 36.0
	37	ϕ 36.1 to ϕ 38.0

■ indicates the number of contacts.
The conductor cross sectional area is less than the following value.However, for safety standard certified products, use a cable having a value shown on p.129.

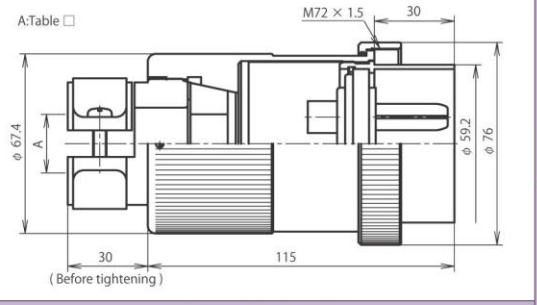
Shell size	Number of Contacts	2	3	4	10	15	30	32	40
60	Contact arrangement <When viewed from the pin (male) contact coupling side>								
	Safety standard (Note-1)	—					CSA NRTL/C	—	CSA NRTL/C
	Rating	500V 150A		500V 80A	250V 30A	250V 15A	250V 5A	250V 3pcs=15A 29pcs= 5A	250V 5A
	Limit operating voltage (Note-2)	600V			300V				
	Withstand voltage (V r.m.s.)	3,000			2,500		1,800		
	Wire size (㎟)	50		30	8	3.5	2	3pcs=3.5 29pcs=2	2

Note-1 : Specified separately. For safety standards, see p.129. (The rated voltage of standard certified products is 265 V.) Note-2 : For the limit operating voltage, see p.131.

NWPC Series Shell Size 64

G Type

【Power receiving side】< Pin (male) contact used >

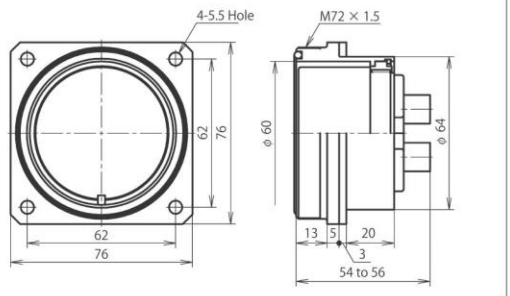


Plug

NWPC-64 ■ -PM □

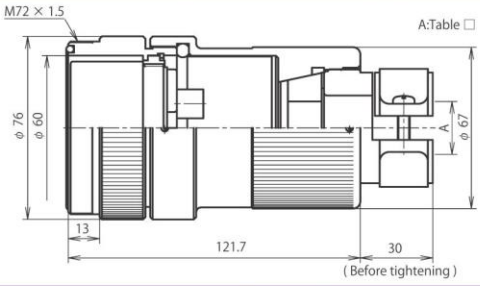
Coupled

【Power supply side】< Socket (female) contact used >



Receptacle

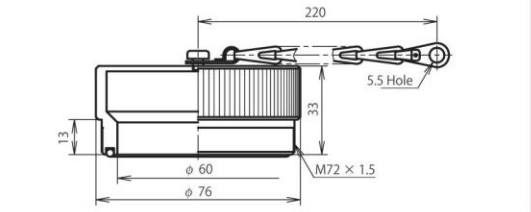
NWPC-64 ■ -RF



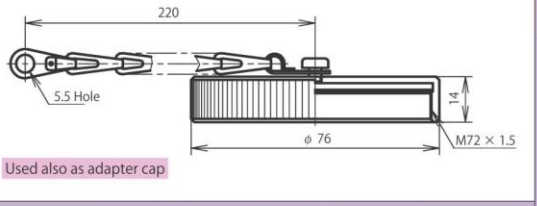
Adapter

NWPC-64 ■ -AdF □

Accessory



Plug cap : NWPC-64-PCa



Receptacle cap : NWPC-64-RCa

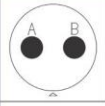
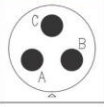
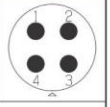
For the plug and adapter , be sure to select □ (cable packing symbol).

Table □

In order to secure the intended waterproof function, a cable to be used for the plug/adapter should have an appropriate specification and structure.

Shell size	Symbol □	Outer diameter of cable used
64	22	ϕ 21.0 to ϕ 23.0
	24	ϕ 23.1 to ϕ 25.0
	26	ϕ 25.1 to ϕ 27.0
	28	ϕ 27.1 to ϕ 29.5
	31	ϕ 29.6 to ϕ 32.0
	33	ϕ 32.1 to ϕ 34.0
	35	ϕ 34.1 to ϕ 36.0
	37	ϕ 36.1 to ϕ 38.0

■ indicates the number of contacts. The conductor cross sectional area is less than the following value.

Shell size	Number of Contacts	2	3	4
64	Contact arrangement <When viewed from the pin (male) contact coupling side>			
	Rating	500V 150A		500V 80A
	Limit operating voltage (Note-1)	600V		
	Withstand voltage (V r.m.s.)	3,000		
	Wire size (㎟)	50		30

Note-1 : For the limit operating voltage, see p.131.