

NET Series



Non-waterproof

RoHS

Safety standard certified products available

Overview

- Power connectors compliant with safety standards and also certified by UL • CSA standards.
- Used in a wide variety of FA equipment and semiconductor equipment.

Feature

RoHS	RoHS Directive compliant
Waterproof	Non
Lock method	Thread lock
Features of mechanism/ material	○ Protection circuit structure : Ground contact of sequence structure (prioritized contact) that connects with metal shells. ○ Installation in a small space enabled by use of the L za.
Standards	○ Safety standard certified connectors available. (EN61984 compliant , TÜV certified) ○ UL • CSA standard certified connectors available. (UL : UL1977 CSA : C22.2 No.182.3)
Cable termination	Soldering

Characteristics

Number of contacts

Shell size	Contact	Insulation resistance (M Ω)	Contact resistance (m Ω)	Withstand voltage (V r.m.s.)
20	3	DC 500V 2,000 min.	3 max.	1,500
24	3	DC 500V 2,000 min.	3 max.	1,500
	4			
28	4	DC 500V 2,000 min.	3 max.	1,500
	8			
32	3	DC 500V 2,000 min.	3 max.	2,000
	4			



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.

NET Series

Product No. designation

NET - 24 ■ - P M

① ② ③ ④ ⑤

- ① Series designation
- ② Shell size
- ③ Number of contacts
- ④ Shell shape
- ⑤ Contact shape < Pin (male) contact : M , Socket (female) contact : F >

All connectors are UL • CSA , TÜV certified. Not necessary to specify a standard by a product name. For safety standards, see pp.127 and 130.

Cable termination : Soldering

Material and Finish

	Material	Finish
Shell	Shell size 20 , 24 : Zinc alloy Shell size 28 , 32 : Aluminum alloy	Crape chrome plating
Insulator	Synthetic resin	—
Contact	Copper alloy	Silver plating

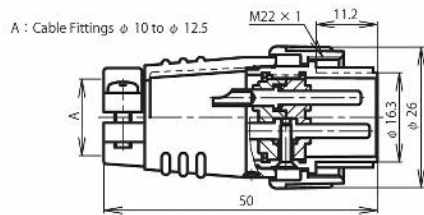
Operating temperature range

Shell size	Number of Contacts	Operating temperature range	Upper limit of ambient temperature at rated current (Note)
20	3	-25°C to +85°C	+80°C
24	3	-40°C to +100°C	+70°C
	4		+80°C
28	4		+70°C
	8		+93°C
32	3		+70°C
	4		

(Note) Max.ambient temp. at rated current

(Based on TÜV certification test results)

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



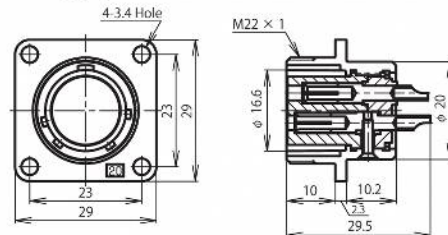
NET-20 ■ -PM

Plug

G Type

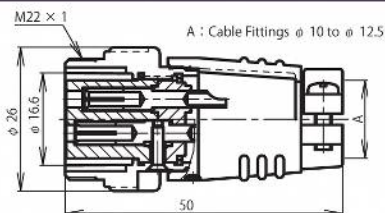
Coupled

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



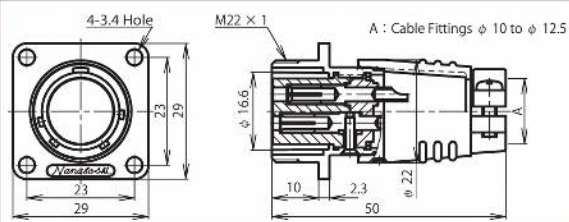
NET-20 ■ -RF

Receptacle



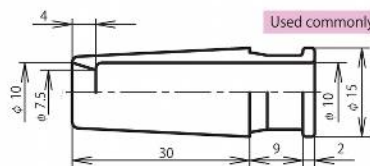
NET-20 ■ -AdF

Adapter

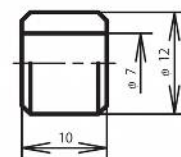


NET-20 ■ -Ad(F)F

Accessory



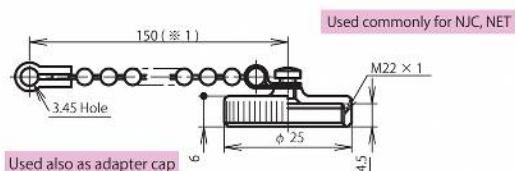
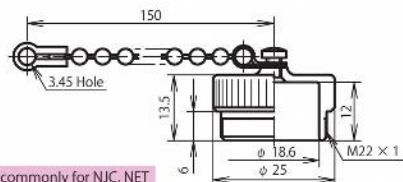
Cable bushing : NJC-20-CB



Cable bushing : CBAS-12-7

Used commonly for NJC, NET

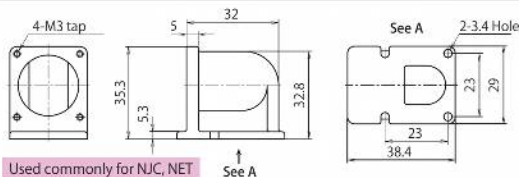
Plug cap : NJC-20-PCa



Used also as adapter cap

(※ 1) Length 70 mm also available. (Example : NJC-20-RCa L70)

Receptacle cap : NJC-20-RCa



Used commonly for NJC, NET

NJC-20-L za

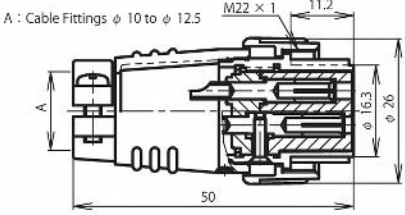
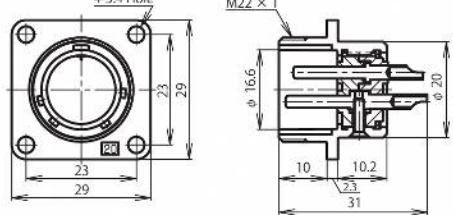
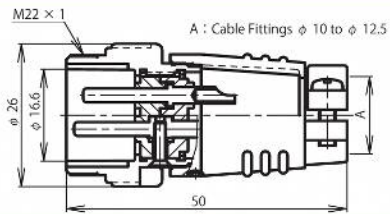
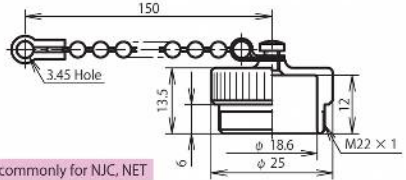
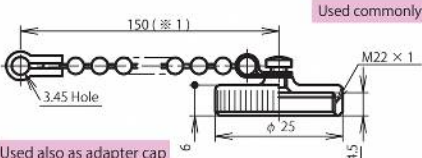
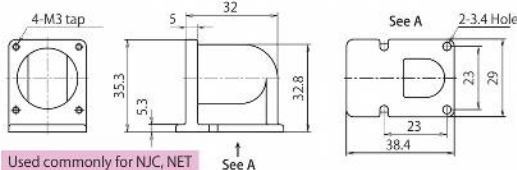
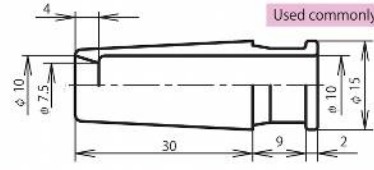
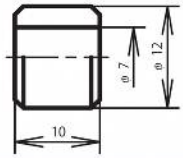
Accessory

■ indicates the number of contacts.

Shell size	Number of Contacts	3
20	Contact arrangement <When viewed from the pin (male) contact coupling side>	
	Safety standard (Note-1)	UL・CSA, TÜV
	Rating	250V 15A
	Withstand voltage (V r.m.s.)	1,500
	Wire size AWG	#14

The cable to use should have a conductor cross sectional area shown in the left-side table.

Note-1 : All connectors are UL・CSA, TÜV certified. Not necessary to specify a standard by a product name. For safety standards, see pp.127 and 130.

【 Power supply side 】 < Socket (female) contact used >		S Type		【 Power receiving side 】 < Pin (male) contact used >	
 NET-20 ■ -PF	Plug	Coupled	Receptacle	 NET-20 ■ -RM	
				 NET-20 ■ -AdM	
 Used commonly for NJC, NET Plug cap : NJC-20-PCa	Accessory	Coupled	Adapter	 Used commonly for NJC, NET Used also as adapter cap (※ 1) Length 70 mm also available. (Example : NJC-20-RCa L70) Receptacle cap : NJC-20-RCa	
				 Used commonly for NJC, NET NJC-20-L za	
				 Used commonly for NJC, NET Cable bushing : NJC-20-CB	
	Accessory	Coupled	Adapter	 Cable bushing : CBAS-12-7	

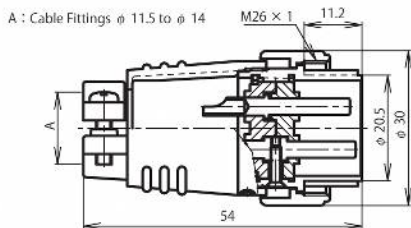
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Shell size	Number of Contacts	3
20	Contact arrangement <When viewed from the pin (male) contact coupling side>	
	Safety standard (Note-1)	UL・CSA, TÜV
	Rating	250V 15A
	Withstand voltage (V r.m.s.)	1,500
	Wire size AWG	#14

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



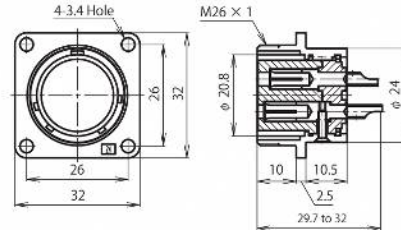
NET-24 ■ -PM

Plug

G Type

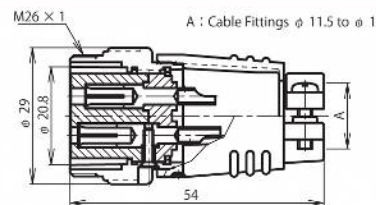
Coupled

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



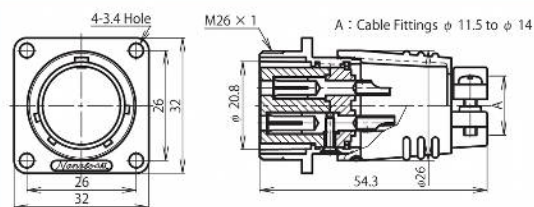
NET-24 ■ -RF

Receptacle



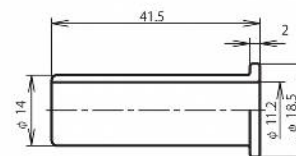
NET-24 ■ -AdF

Adapter



NET-24 ■ -Ad(F)F

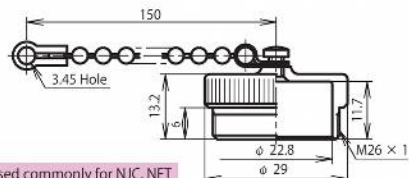
Accessory



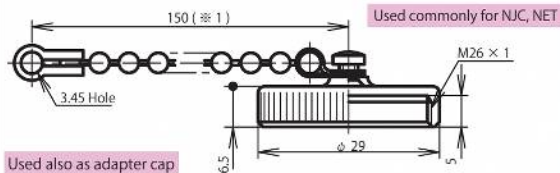
Cable bushing : NJC-24-CB

Used commonly for NJC, NET

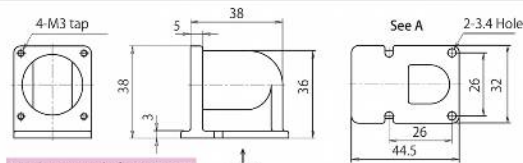
Plug cap : NJC-24-PCa



Receptacle cap : NJC-24-RCa



(※ 1) Length 50,70 mm also available. (Example : NJC-24-RCa L70)



NJC-24-L za

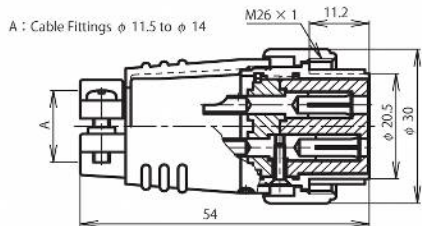
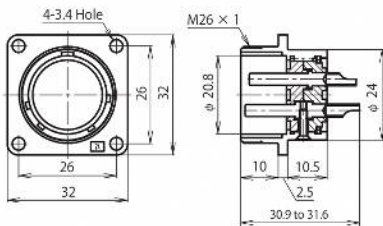
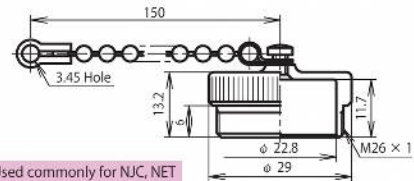
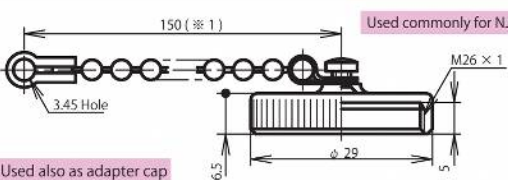
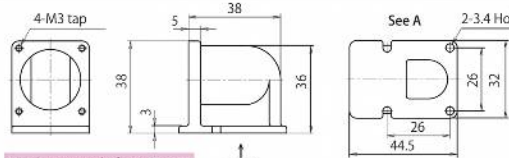
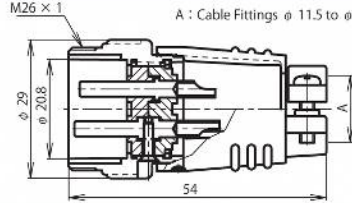
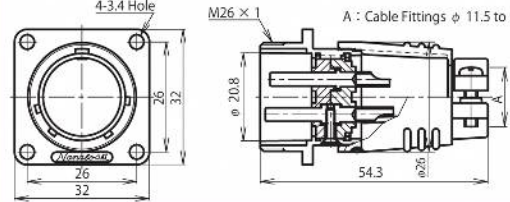
Accessory

■ indicates the number of contacts.

Shell size	Number of Contacts	3	4
24	Contact arrangement <When viewed from the pin (male) contact coupling side>		
	Safety standard (Note-1)	UL・CSA, TÜV	
	Rating	250V	
		20A	15A
	Withstand voltage (V r.m.s.)	1,500	
	Wire size AWG	#12	#14

The cable to use should have a conductor cross sectional area shown in the left-side table.

Note-1 : All connectors are UL・CSA, TÜV certified. Not necessary to specify a standard by a product name. For safety standards, see pp.127 and 130.

【 Power supply side 】 < Socket (female) contact used >		S Type		【 Power receiving side 】 < Pin (male) contact used >		
 A : Cable Fittings ϕ 11.5 to ϕ 14 NET-24 ■ -PF	Plug	Coupled	Receptacle	 NET-24 ■ -RM		
 Used commonly for NJC, NET Plug cap : NJC-24-PCa  Used commonly for NJC, NET Used also as adapter cap (※ 1) Length 50,70 mm also available. (Example : NJC-24-RCa L70) Receptacle cap : NJC-24-RCa  Used commonly for NJC, NET NJC-24-L za	Accessory		Adapter	 NET-24 ■ -AdM  NET-24 ■ -Ad(F)M		
						Accessory

■ indicates the number of contacts.

Shell size	Number of Contacts	3	4
24	Contact arrangement <When viewed from the pin (male) contact coupling side>		
	Safety standard (Note-1)	UL・CSA , TÜV	
	Rating	250V	
		20A	15A
	Withstand voltage (V r.m.s.)	1,500	
	Wire size AWG	#12	#14

The cable to use should have a conductor cross sectional area shown in the left-side table.

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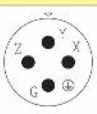
The cable to use should have a conductor cross sectional area shown in the left-side table.

Shell size	Number of Contacts	4	8
28	Contact arrangement <When viewed from the pin (male) contact coupling side>		
	Safety standard (Note-1)	UL・CSA, TÜV	
	Rating	250V	
		20A	15A
	Withstand voltage (V r.m.s.)	1,500	
Wire size AWG	#12	#14	

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【 Power supply side 】 < Socket (female) contact used >		S Type		【 Power receiving side 】 < Pin (male) contact used >	

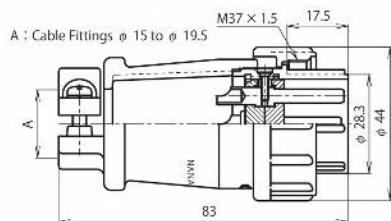
■ indicates the number of contacts.

Shell size	Number of Contacts	4	8
28	Contact arrangement <When viewed from the pin (male) contact coupling side>		
	Safety standard (Note-1)	UL・CSA , TÜV	
	Rating	250V	
		20A	15A
	Withstand voltage (V r.m.s.)	1,500	
	Wire size AWG	#12	#14

The cable to use should have a conductor cross sectional area shown in the left-side table.

Note-1 : All connectors are UL・CSA , TÜV certified. Not necessary to specify a standard by a product name. For safety standards, see pp.127 and 130.

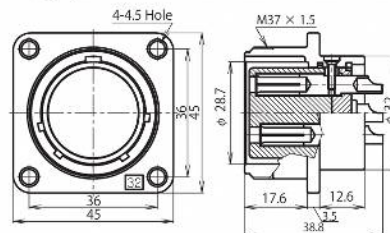
【 Power receiving side 】 < Pin (male) contact used >



NET-32 ■ -PM

G Type

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

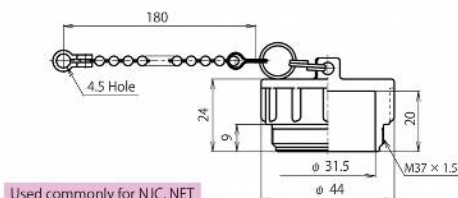


NET-32 ■ -RF

Plug

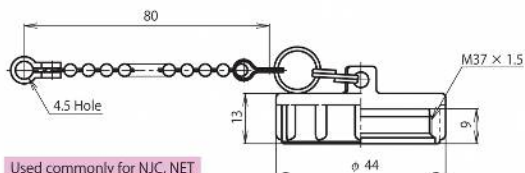
Receptacle

Coupled



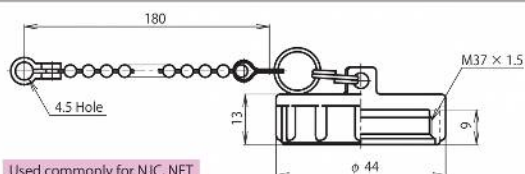
Used commonly for NJC, NET

Plug cap : NJC-32-PCa



Used commonly for NJC, NET

Receptacle cap : NJC-32-RCa

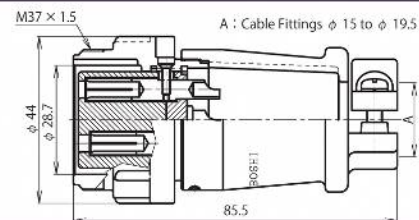


Used commonly for NJC, NET

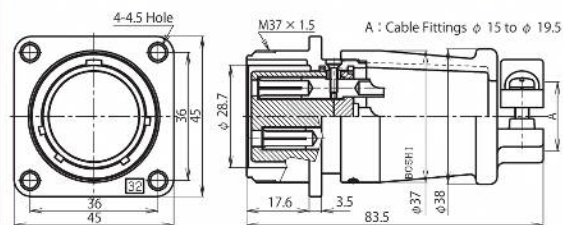
Adapter cap : NJC-32-AdCa

Accessory

Adapter



NET-32 ■ -AdF



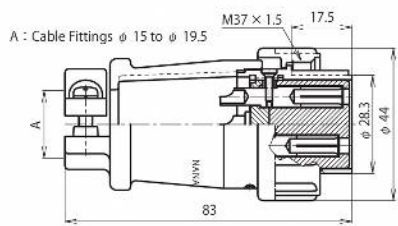
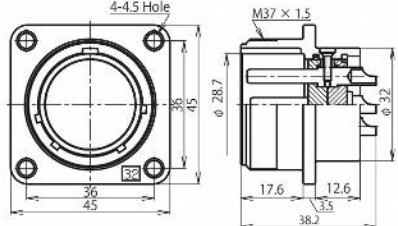
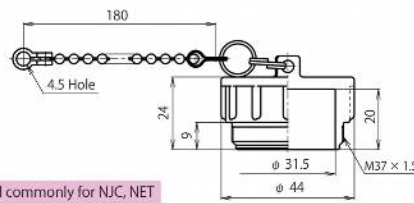
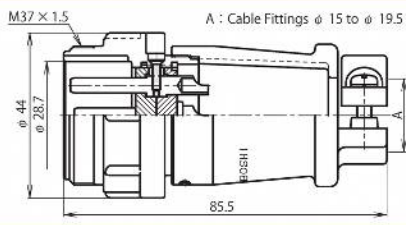
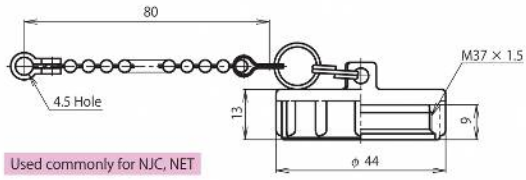
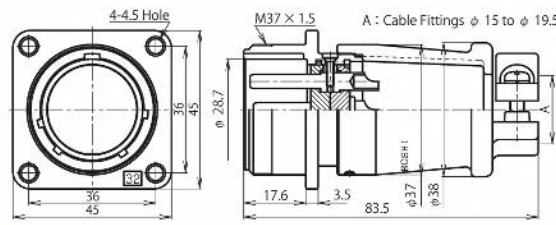
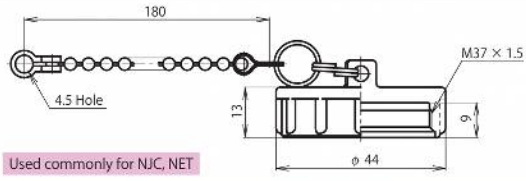
NET-32 ■ -Ad(F)F

■ indicates the number of contacts.

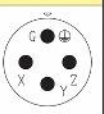
Shell size	Number of Contacts	3	4
32	Contact arrangement <When viewed from the pin (male) contact coupling side>		
	Safety standard (Note-1)	UL・CSA, TÜV	
	Rating	250V 30A	
	Withstand voltage (V r.m.s.)	2,000	
	Wire size AWG	#10	

The cable to use should have a conductor cross sectional area shown in the left-side table.

Note-1 : All connectors are UL・CSA, TÜV certified. Not necessary to specify a standard by a product name. For safety standards, see pp.127 and 130.

【 Power supply side 】 < Socket (female) contact used >		S Type		【 Power receiving side 】 < Pin (male) contact used >	
 A : Cable Fittings ϕ 15 to ϕ 19.5 NET-32 ■ -PF	Plug	Coupled	Receptacle	 NET-32 ■ -RM	
 Used commonly for NJC, NET Plug cap : NJC-32-PCa	Accessory			 NET-32 ■ -AdM	
 Used commonly for NJC, NET Receptacle cap : NJC-32-RCa			 NET-32 ■ -Ad(F)M		
 Used commonly for NJC, NET Adapter cap : NJC-32-AdCa					

■ indicates the number of contacts.

Shell size	Number of Contacts	3	4
32	Contact arrangement <When viewed from the pin (male) contact coupling side>		
	Safety standard (Note-1)	UL・CSA , TÜV	
	Rating	250V 30A	
	Withstand voltage (V r.m.s.)	2,000	
	Wire size AWG	#10	

The cable to use should have a conductor cross sectional area shown in the left-side table.

Note-1 : All connectors are UL・CSA , TÜV certified. Not necessary to specify a standard by a product name. For safety standards, see pp.127 and 130.