

电源连接器

Power Connector Catalogue

F4P Series Power Connectors

Brief Introduction



F4P series connector is hot-plug, both signal and power in one, which includes F4P3PNSA-, F4P4PNS-, F4P4PNSA-, F4P6P9S-, F4P4P13S-, F4P7P11S-, F4P4P16S-, F4P10P15S-, F4P8P20S-, F4P8P21S-, F4P10P19SA-, F4P13P24S-, F4P20P32S-, core connectors etc. The connector adopts the most advanced crown spring as contact part, so the product has high reliability of dynamic contact. And the contacts are silver-gilt except #22 and #20 is gilded. The female connector (T) is installed with the sockets, and the male connector (Z) is installed with the pins. At present the optional terminal styles include crimping, solder cup, PCB tail and thread. We also would be glad to design new products based on the customers' requirements in a short designing time.

Application:

1. Intelligence high frequency switching power supply: Communication power supply, electric power, railway power supply, LED power, solar photovoltaic power
2. UPS
3. Contravariant power
4. Drawer low-voltage cabinet etc.



Material

Housing: PET, 30% fiberglass (G30) , UL94V-0, black

Contacts:

Pin and Socket: brass or copper alloy

Crown spring: beryllium bronze

Surface: Unless other specified, #22 and #20 Contacts are gilded, and the others are silver-gilt.

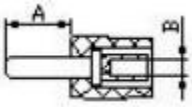
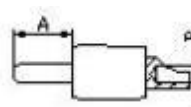
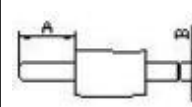
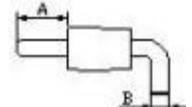
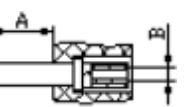
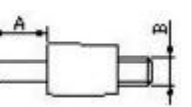
Product List

Product Type		Rated Current for Contact (A)							Page No.
		22#	20#	16#	12#	8#	4#	0#	
		3	5	15	35	75	125	150	
		Contact's Quantity							
F4P-3PNSAZ	F4P-3PNSAT				3				P4
F4P-4PNSZ	F4P-4PNST							4	P5
F4P-4PNSAZ	F4P-4PNSAT				4				P6
F4P-8PNSAZ	F4P-8PNSAT					8			P7
F4P-4P4SCZ	F4P-4P4SCT		4		2	2			P8
F4P-13PNSZ	F4P-13PNST				3			10	P10
F4P-6P9SZ	F4P-6P9ST		9		6				P11
F4P-4P13SZ	F4P-4P13ST		13		4				P12
F4P-7P11SZ	F4P-7P11ST		11		7				P13
F4P-10P9SZ	F4P-10P9ST	9		10					P14
F4P-4P16SZ	F4P-4P16ST		16			4（70A）			P16
F4P-10P15SZ	F4P-10P15ST		15		10				P17
F4P-8P20SZ	F4P-8P20ST		20			8			P18
F4P-8P21SZ1	F4P-8P21ST1		21		8				P19
F4P-10P19SAZ	F4P-10P19SAT		19			6	4		P20
F4P-33PNSZ	F4P-33PNST			24	9				P21
F4P-13P24SZ1	F4P-13P24ST1		24		9	4			P22
F4P-13P24SZ2	F4P-13P24ST2		24		9	4			P23
F4P-8P32SZ1	F4P-8P32ST1		32		6		2		P24
F4P-12P28SAZ	F4P-12P28SAT		28	8	4				P25
F4P-20P32SZ1	F4P-20P32ST1		32	12	6			2	P26
F4P-15P68SZ	F4P-15P68ST		68		9	6			P27
F4P-15P68SAZ	F4P-15P68SAT		68			9	6		P28

Contact Spec.

Spec	Dimension for Pin's Working Side (mm)	Extract Force (g)	Rated Current (A)	Contact Resistance (mΩ)
22#	Φ0.80	30~200	3	≤13
20#	Φ1.01	50~280	5	≤5.0
16#	Φ1.57	100~320	15	≤2.5
12#	Φ2.38	250~650	35	≤1.0
8#	Φ3.60	300~900	75	≤0.75
4#	Φ6.35	760~1360	125	≤0.66
0#	Φ9.06	820~2000	150	≤0.32

Contact Terminal Styles

Crimping	Solder Cup	PCB Tail		Internal Thread	External Thread
Y	H	B	B(Bending Pin)	N	W
					

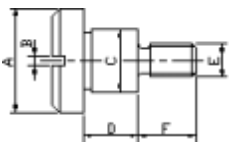
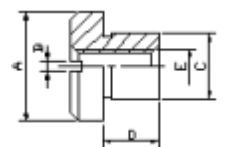
Note: Except the Bending Pin style, the socket contact terminal styles are the same as the pin's shown in the table. Dimension A is optional.

Contact Installation

Spec.	Terminal Style	B (mm)	Decorticated Length for Wire Strip Length of Wire(mm)	Wire Part No. AWG	Note
22#	B	Φ0.8	/	/	Usually, there are four working lengths for pins, short, standard, long, extra long; and I pin's working length can be customized according to customer's requirement.
20#	Y	Φ1.1	6.0	20-24	
	H	Φ1.3	4.0	/	
	B	Φ1.0	/	/	
16#	Y	Φ1.8	6.5	16	
	H	Φ2.2	5.0	/	
	B	Φ1.57	/	/	
12#	Y	Φ2.7	6.5	12-14	
		Φ3.2	6.5	10	
	H	Φ2.8	5.0	/	
	B	Φ2.38	/	/	
8#	Y	Φ4.5	10.0	8-10	
		Φ5.8	12.5	6	
	H	Φ4.8	6.5	/	
	B	Φ3.6	/	/	
4#	Y	Φ7.3	12.5	4-6	
	N	M5.0	/	/	
	W	M5.0	/	/	
0#	Y	Φ11.5	15.0	0-2	
	N	M6.0	/	/	
	W	M6.0	/	/	

Screw and Nut

(Note: material is steel, nickel plating)

Drawing	Description	Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
	A-Screw	F4P-TA-001	Φ12.7	1.2	Φ7.6	6.6	M4	7
	D-Screw	F4P-TA-004	Φ9.52	1.2	Φ6.35	6.65	M4	6.35
	H-Screw	F4P-TA-009	Φ12.7	1.2	Φ8.6	6.6	M4	7.0
	J-Screw	F4P-TA-010	Φ7.0	1.2	Φ5.0	6.6	M3	6.2
	Nut	F4P-TA-005	Φ12.5	1.4	Φ7.6	6.6	M4	/

The Male Connector : F4P-3PNSAZ

The Female Connector : F4P-3PNSAT

Operating Environment

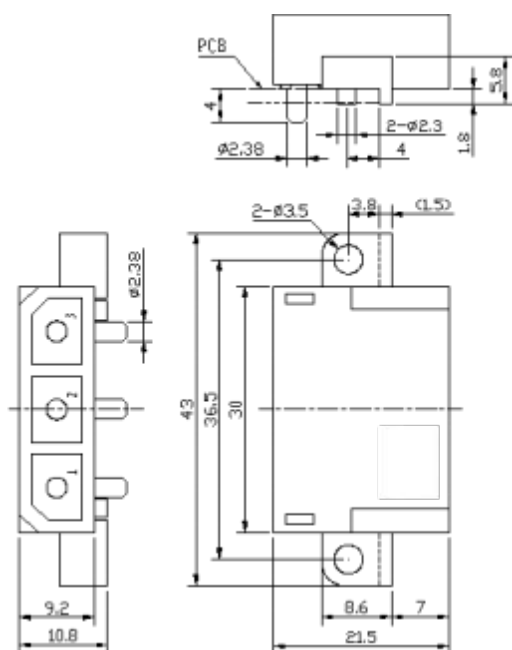
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



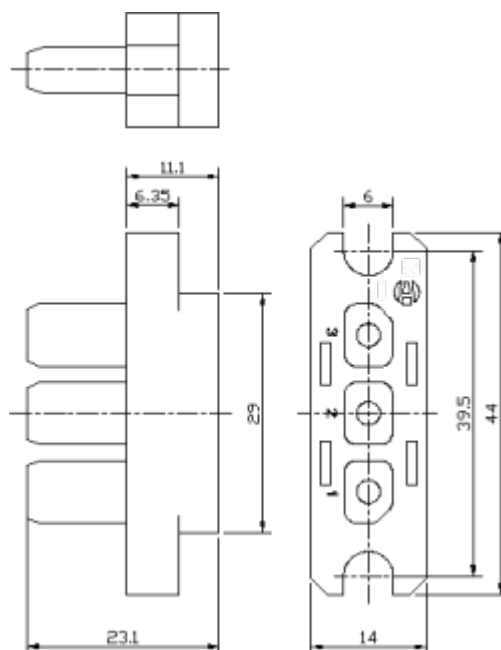
Main Technical Parameters

Insulation Resistance			≥ 1,000MΩ
Mechanical Life			1,000 times
Housing Material			PET G30 UL94V-0 Black
Contact	Spec.		Power Contact
			#12
	Quantity		3
	Rated Current		35A
	Rated Voltage		400V
	Contact Resistance		≤1.00mΩ
	Withstand Voltage		2,000V
	Surface Material		Silver plated over nickel
	Terminal Style		Pins: PCB Tail (B) (Bending Pin); Sockets: Crimping (Y), PCB Tail (B), Solder Cup(H)
	Material	Pin and Socket	Brass or copper
Crown Spring		Beryllium bronze	

External Sizes and Installation Dimensions (mm)



F4P-3PNSAZ



F4P-3PNSAT

F4P4PNS POWER CONNECTOR

Type

The Male Connector: F4P- 4PNSZ

The Female Connector: F 4 P - 4PNST

Operating Environment

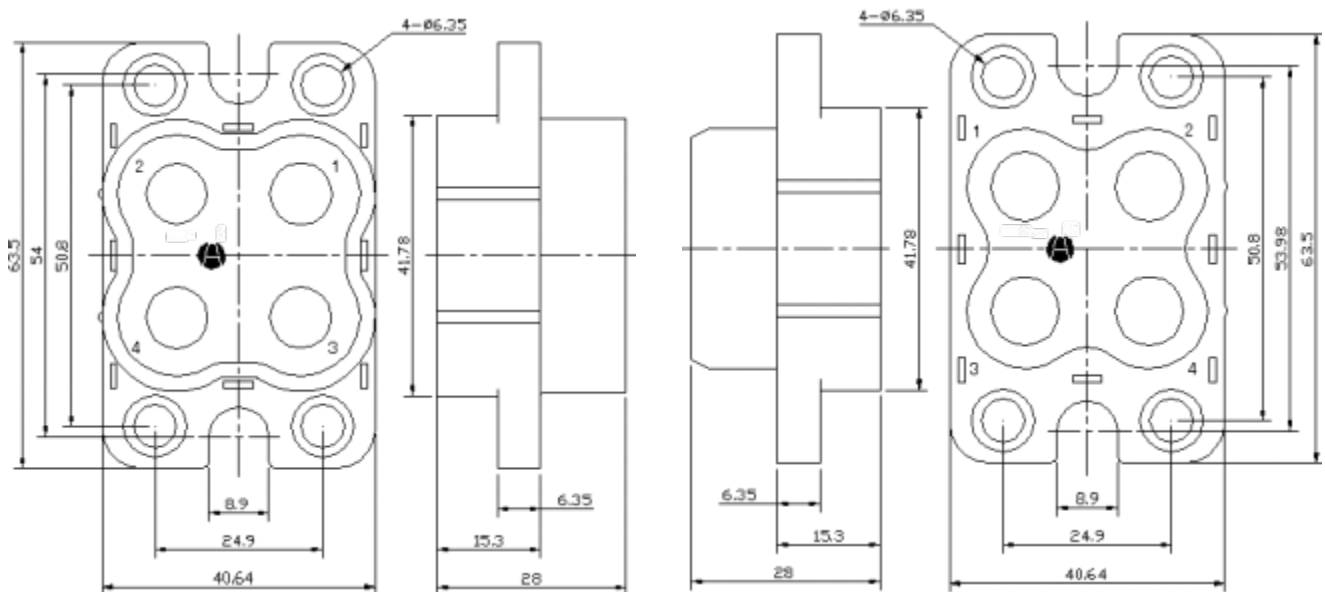
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance			≥ 1,000MΩ
Mechanical Life			1,000 times
Housing Material			PET G30 UL94V-0 Black
Contact	Spec.		Power Contact
			#0
	Quantity		4
	Rated Current		150A
	Contact Resistance		≤0.32mΩ
	Withstand Voltage		1,500V
	Surface Material		Silver plated over nickel
	Terminal Style		Crimping(Y), Internal Thread(N), External Thread(W)
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P-4PNSZ

F4P-4PNST

F4P4PNSA POWER CONNECTOR

Type

The Male Connector: F4P-4PNSAZ

The Female Connector: F4P-4PNSAT

Operating Environment

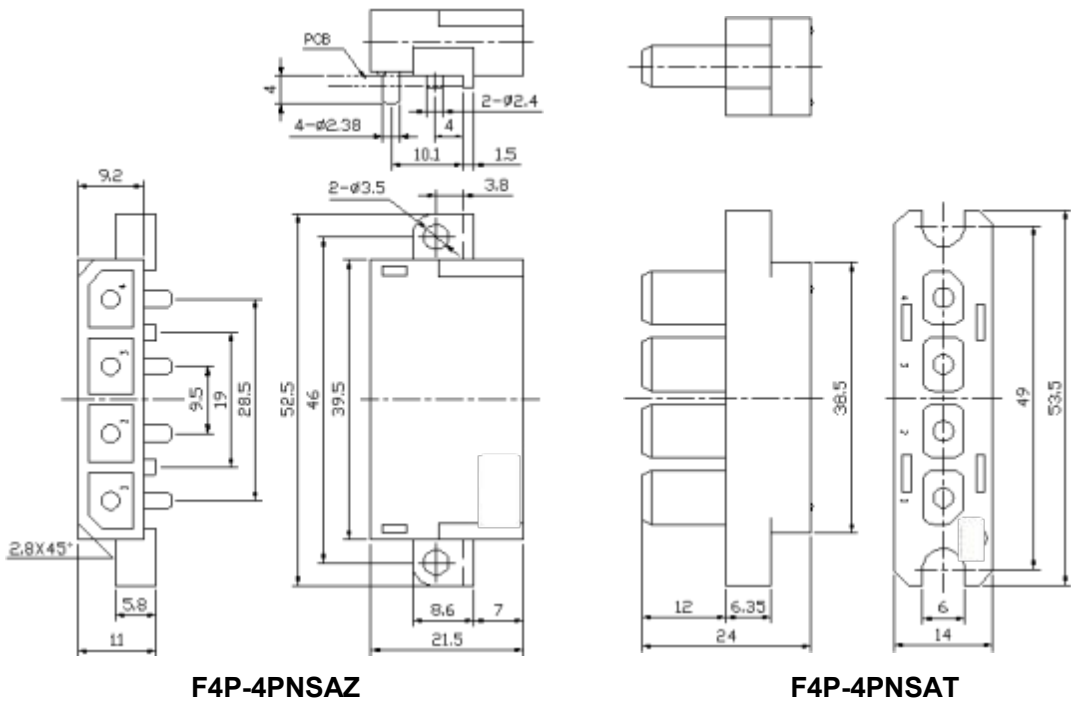
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ
Mechanical Life		1,000 times
Housing Material		PET G30 UL94V-0 Black
Contact	Spec.	Power Contact
		#12
	Quantity	4
	Rated Current	35A
	Rated Voltage	400V/630V
	Contact Resistance	≤1.00mΩ
	Withstand Voltage	2,000V/3,000V
	Surface Material	Silver plated over nickel
	Terminal Style	Pins: PCB Tail (B) (Bending Pin); Sockets: Crimping (Y), PCB Tail (B), Solder Cup(H)
	Material	Pin and Socket
		Crown Spring

External Sizes and Installation Dimensions (mm)



F4P8PNSA POWER CONNECTOR

Type

The Male Connector: **F4P-8PNSAZ**

The Female Connector: **F4P-8PNSAT**

Operating Environment

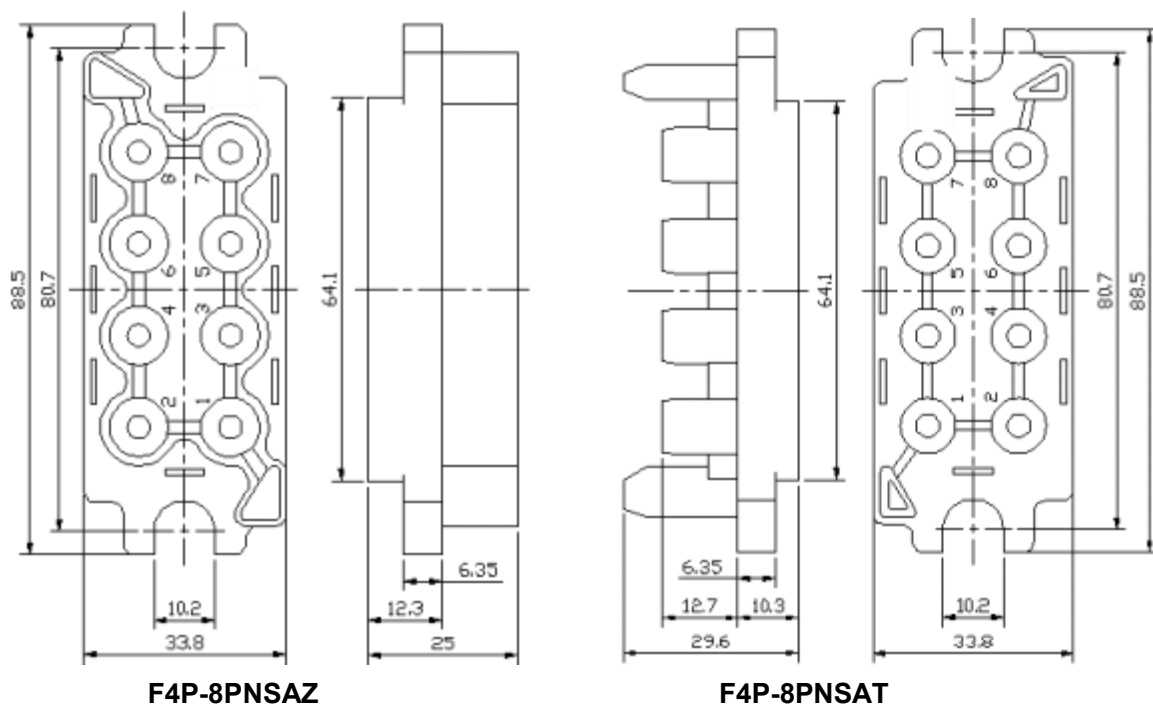
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ
Mechanical Life		1,000 times
Housing Material		PET G30 UL94V-0 Black
Contact	Spec.	Power Contact
		#8
	Quantity	8
	Rated Current	75A
	Rated Voltage	600V
	Contact Resistance	≤0.75mΩ
	Withstand Voltage	3,000V
	Surface Material	Silver plated over nickel
	Terminal Style	Crimping(Y)
	Material	Pin and Socket
		Crown Spring

External Sizes and Installation Dimensions (mm)



F4P4P6S POWER CONNECTOR

Type

The Male Connector: F4P-4P6ST

The Female Connector: F4P-4P6SZ

Operating Environment

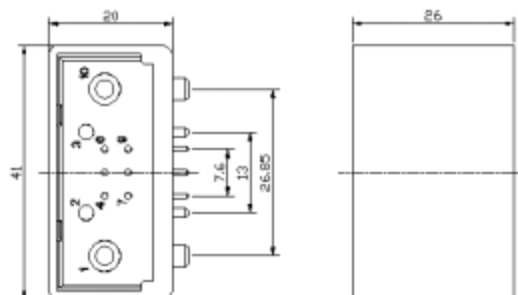
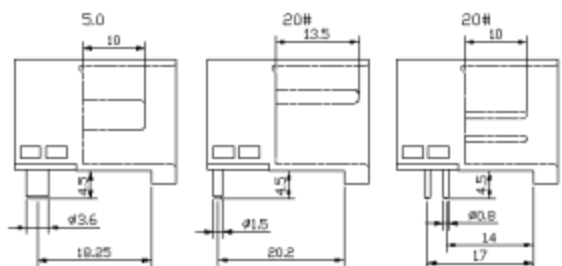
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



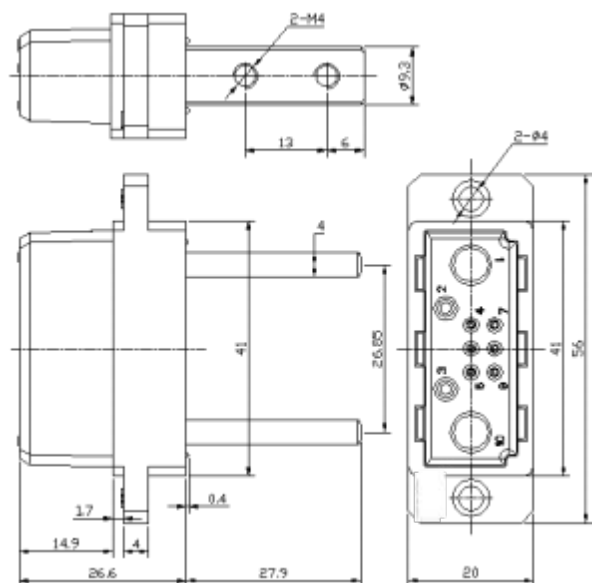
Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ		
Mechanical Life		1,000 times		
Housing Material		PET G30 UL94V-0 Black		
Contact	Spec.	Signal Contact		Power Contact
		#20	#12	Φ 5.0
	Quantity	6	2	2
	Rated Current	5A	35A	100A
	Rated Voltage	50V	110V	220V
	Contact Resistance	≤5.0mΩ	≤1.0mΩ	≤0.70mΩ
	Withstand Voltage	1,000V	1,300V	1,500V
	Surface Material	Gold plated over nickel		Silver plated over nickel
	Terminal Style	Pins: PCB Tail (B) (Bending Pin); Sockets: Crimping (Y), Φ 5.0 has threads type.		
	Material	Pin and Socket	Brass or copper	
		Crown Spring	Beryllium bronze	

External Sizes and Installation Dimensions (mm)



Male F4P-4P6SZ



Female F4P-4P6ST

F4P13PNS POWER CONNECTOR

Type

The Male Connector: F4P-13PNST

The Female Connector: F4P-13PNSZ

Operating Environment

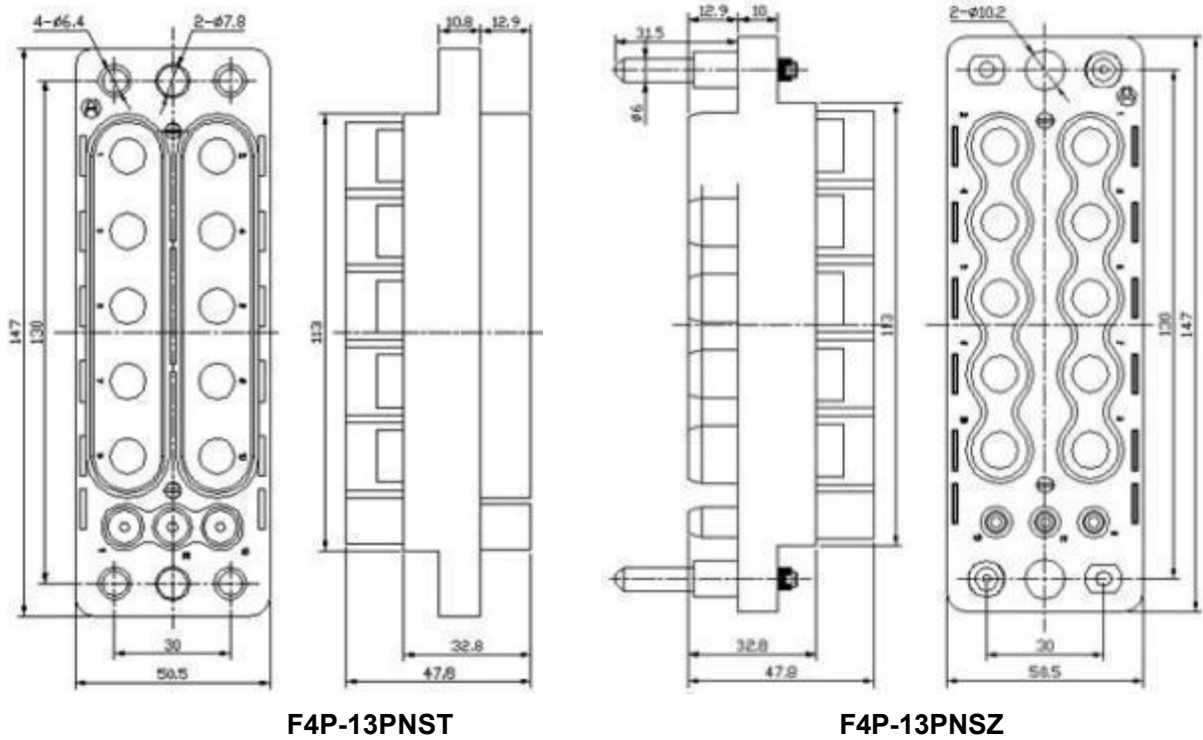
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ	
Mechanical Life		1,000 times	
Housing Material		PET G30 UL94V-0 Black	
Contact	Spec.	Power Contact	
		12#	0#
	Quantity	3	10
	Rated Current	35A	150A
	Contact Resistance	≤1.00mΩ	≤0.32mΩ
	Withstand Voltage	3000V	2000V
	Surface Material	Silver plated over nickel	Silver plated over nickel
	Terminal Style	Crimping (Y), Solder Cup(H), Internal Thread (N)	
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P6P9S POWER CONNECTOR

Type

The Male Connector: **F4P-6P9SZ**

The Female Connector: **F4P-6P9ST**

Operating Environment

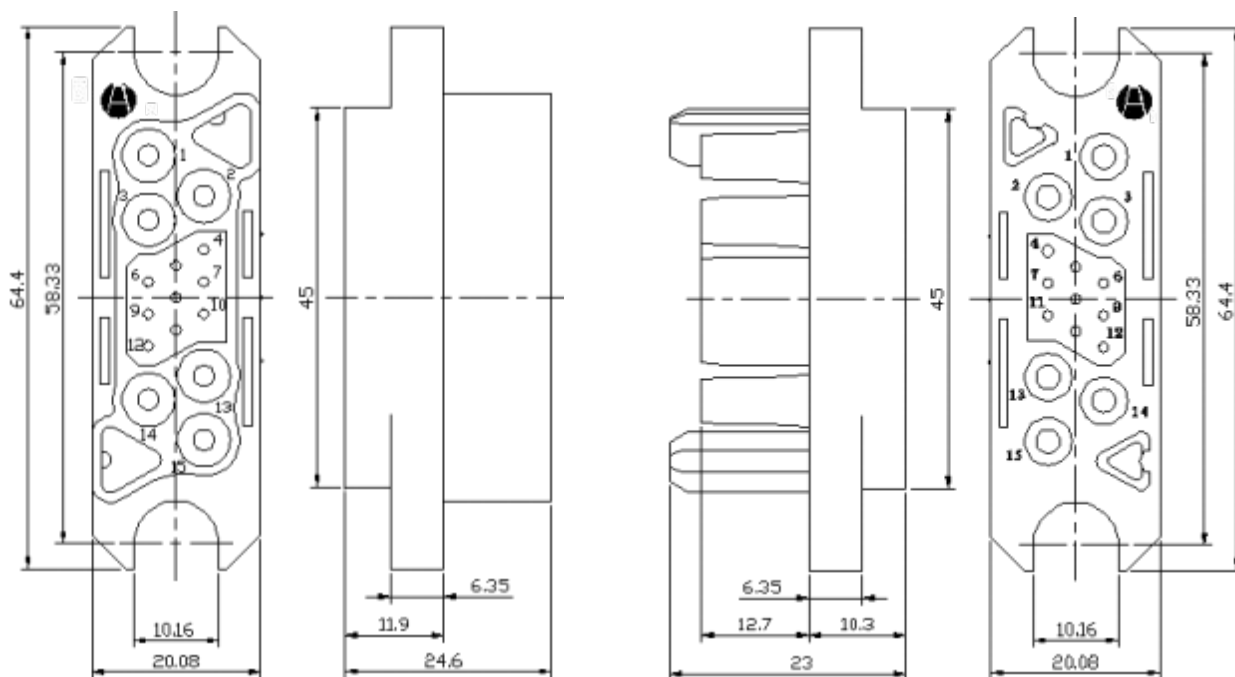
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ	
Mechanical Life		1,000 times	
Housing Material		PET G30 UL94V-0 Black	
Contact	Spec.	Signal Contact	Power Contact
		#20	#12
	Quantity	9	6
	Rated Current	5A	35A
	Contact Resistance	≤5.0mΩ	≤1.0mΩ
	Withstand Voltage	1,000V	1,500V
	Surface Material	Gold plated over nickel	Silver plated over nickel
	Terminal Style	Crimping (Y), PCB Tail (B), Solder Cup(H)	
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P-6P9SZ1

F4P-6P9ST1

F4P4P13S POWER CONNECTOR

Type

The Male Connector: **F4P-4P13SZ**

The Female Connector: **F4P-4P13ST**

Operating Environment

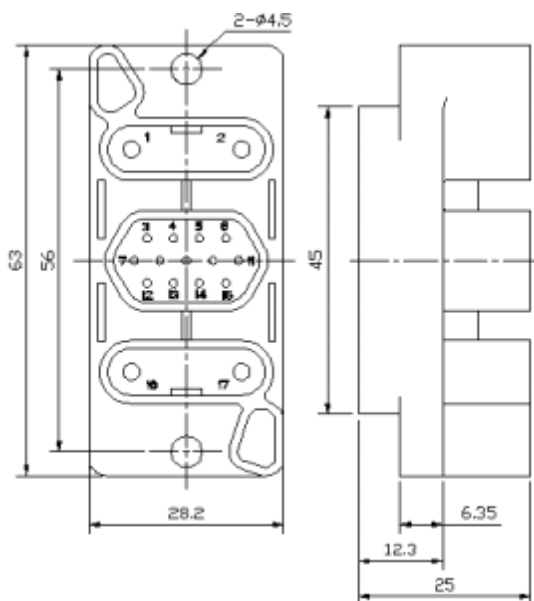
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



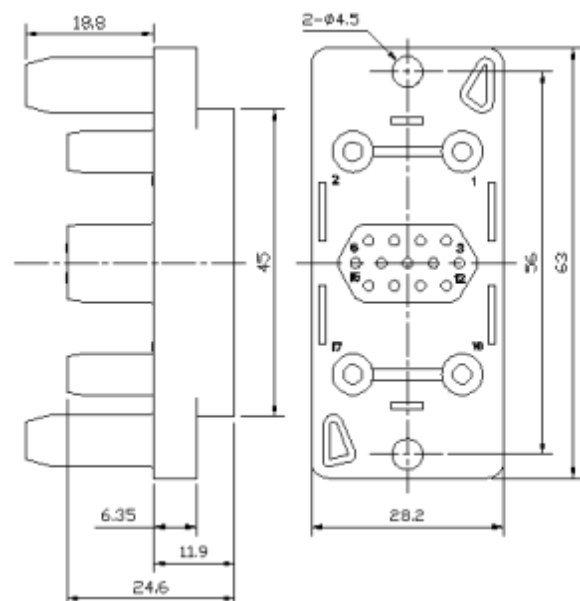
Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ	
Mechanical Life		1,000 times	
Housing Material		PET G30 UL94V-0 Black	
Contact	Spec.	Signal Contact	Power Contact
		#20	#12
	Quantity	13	4
	Rated Current	5A	35A
	Rated Voltage	50V	1,000V
	Contact Resistance	≤5.0mΩ	≤1.0mΩ
	Withstand Voltage	1,000V	5,000V
	Surface Material	Gold plated over nickel	Silver plated over nickel
	Terminal Style	#20: Crimping (Y), PCB Tail (B), Solder Cup(H); #12: Crimping (Y), Solder Cup(H)	
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P-4P13SZ



F4P-4P13ST

F4P7P11S POWER CONNECTOR

Type

The Male Connector: **F4P-7P11SZ**

The Female Connector: **F4P-7P11ST**

Operating Environment

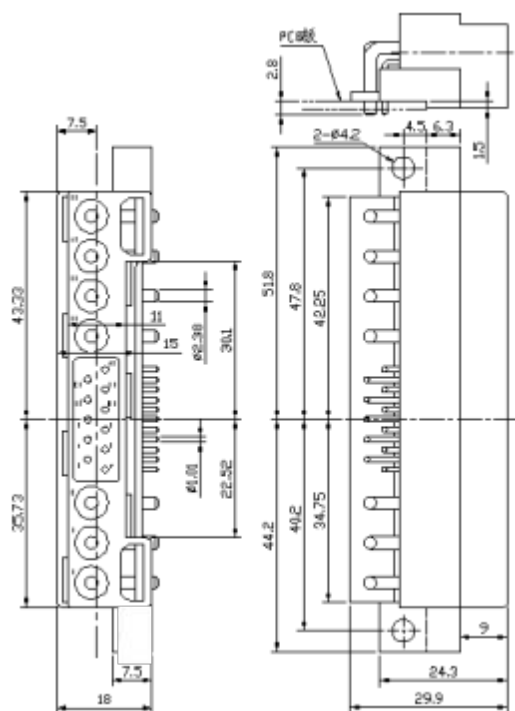
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



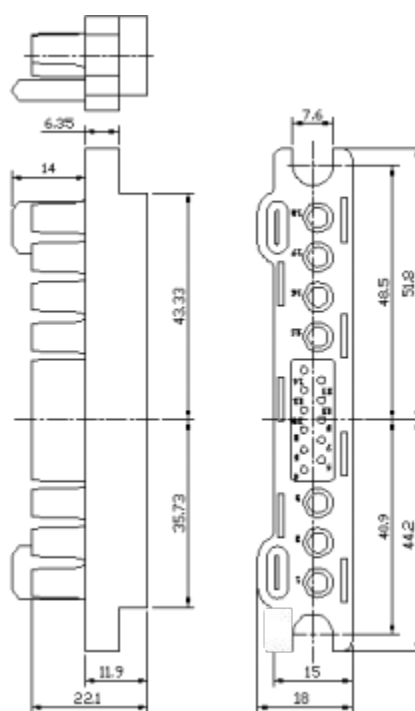
Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ	
Mechanical Life		1,000 times	
Housing Material		PET G30 UL94V-0 Black	
Contact	Spec.	Signal Contact	Power Contact
		#20	#12
	Quantity	11	7
	Rated Current	5A	35A
	Contact Resistance	≤5.0mΩ	≤1.0mΩ
	Withstand Voltage	1,000V	1,500V
	Surface Material	Gold plated over nickel	Silver plated over nickel
	Terminal Style	Pins: PCB Tail (B) (Bending Pin); Sockets: Crimping (Y), PCB Tail (B), Solder Cup(H)	
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P-7P11SZ



F4P-7P11ST

The Female Connector: F4P-10P9ST

Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Insulation Resistance			≥ 1,000MΩ	
Mechanical Life			1,000 times	
Housing Material			PET G30 UL94V-0 Black	
Contact	Spec.		Signal Contact	Power Contact
			#22	#16
	Quantity		9	10
	Rated Current		3A	15A
	Contact Resistance		≤13.0mΩ	≤2.5mΩ
	Withstand Voltage		1,000V	1,500V
	Surface Material		Gold plated over nickel	
	Terminal Style		Pins: PCB Tail (B) (Bending Pin); Sockets: #22, PCB Tail (B); #16, Crimping (Y), PCB Tail (B),	
	Material	Pin and Socket	Brass or copper	
Crown Spring		Beryllium bronze		

F4P10P9SA POWER CONNECTOR

Type

The Male Connector: F4P-10P9SAZ

The Female Connector: F4P-10P9SAT

Operating Environment

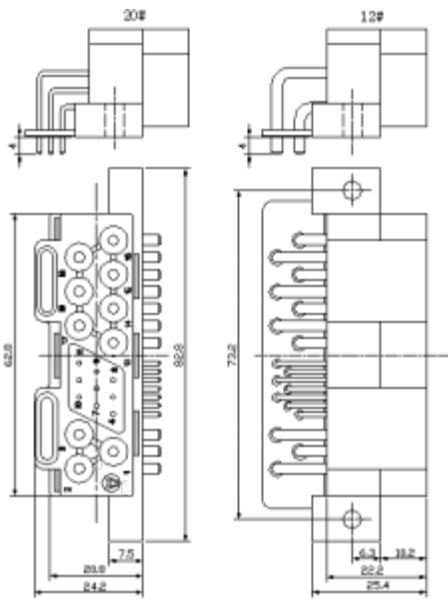
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



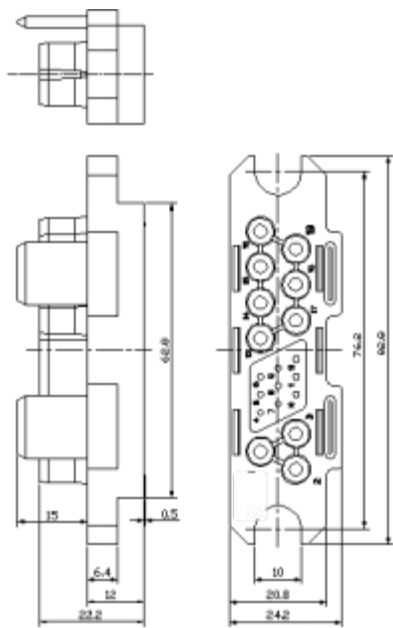
Main Technical Specifications

Insulation Resistance		≥ 1000MΩ	
Mechanical Life		1000 times	
Housing Material		PET G30 UL94V-0 Black	
Contact	Spec.	Signal Contact	Power Contact
		20#	12#
	Quantity	9	10
	Rated Current	5A	35A
	Contact Resistance	≤5.0mΩ	≤1.0mΩ
	Withstand Voltage	1000V	1500V
	Surface Material	Gold plated over nickel	Silver plated over nickel
	Terminal Style	Pins: PCB Tail (B) (Bending Pin); Sockets: Crimping (Y), PCB Tail (B), Solder Cup(H)	
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P-10P9SAZ



F4P-10P9SAT

F4P4P16S POWER CONNECTOR

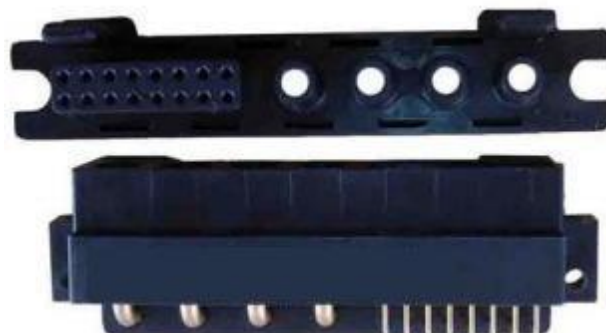
Type

The Male Connector: F4P-4P16SZ

The Female Connector: F4P-4P16ST

Operating Environment

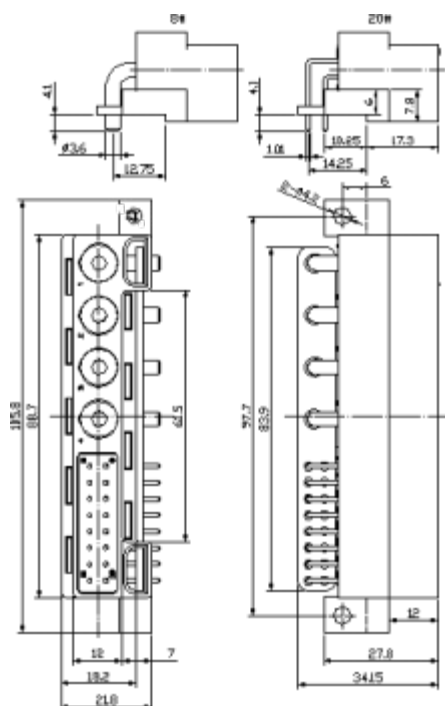
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



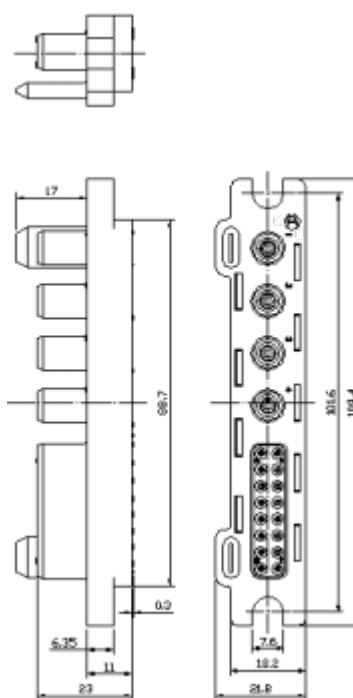
Main Technical Specifications

Insulation Resistance			≥ 1,000MΩ			
Mechanical Life			1,000 times			
Housing Material			PET G30 UL94V-0 Black			
Contact	Spec.		Signal Contact		Power Contact	
			#20		#8	
	Quantity		16		4	
	Rated Current		5A		75A	
	Contact Resistance		≤5.0mΩ		≤0.75mΩ	
	Withstand Voltage		1,000V		2,500V	
	Surface Material		Gold plated over nickel		Silver plated over nickel	
	Terminal Style		Pins: PCB Tail (B) (Bending Pin); Sockets: Crimping (Y), PCB Tail (B), Solder Cup(H)			
	Material	Pin and Socket		Brass or copper		
Crown Spring		Beryllium bronze				

External Sizes and Installation Dimensions (mm)



F4P-4P16SZ



F4P-4P16ST

F4P10P15S POWER CONNECTOR

Type

The Male Connector: F4P-10P15SZ

The Female Connector: F4P-10P15ST

Operating Environment

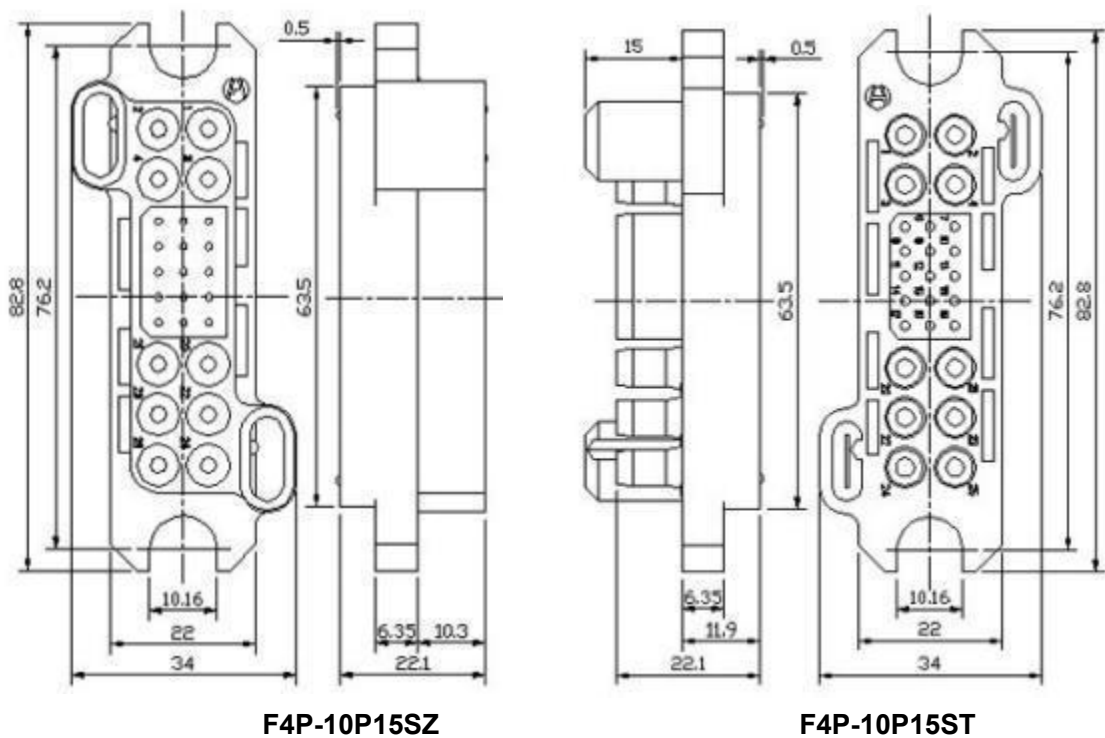
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ	
Mechanical Life		1,000 times	
Housing Material		PET G30 UL94V-0 Black	
Contact	Spec.	Signal Contact	Power Contact
		20#	12#
	Quantity	15	10
	Rated Current	5A	35A
	Contact Resistance	≤5.0mΩ	≤1.0mΩ
	Withstand Voltage	1000V	1500V
	Surface Material	Gold plated over nickel	Silver plated over nickel
	Terminal Style	Crimping (Y), PCB Tail (B), Solder Cup(H)	
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P8P20S POWER CONNECTOR

Type

The Male Connector: **F4P-8P20SZ**

The Female Connector: **F4P-8P20ST**

Operating Environment

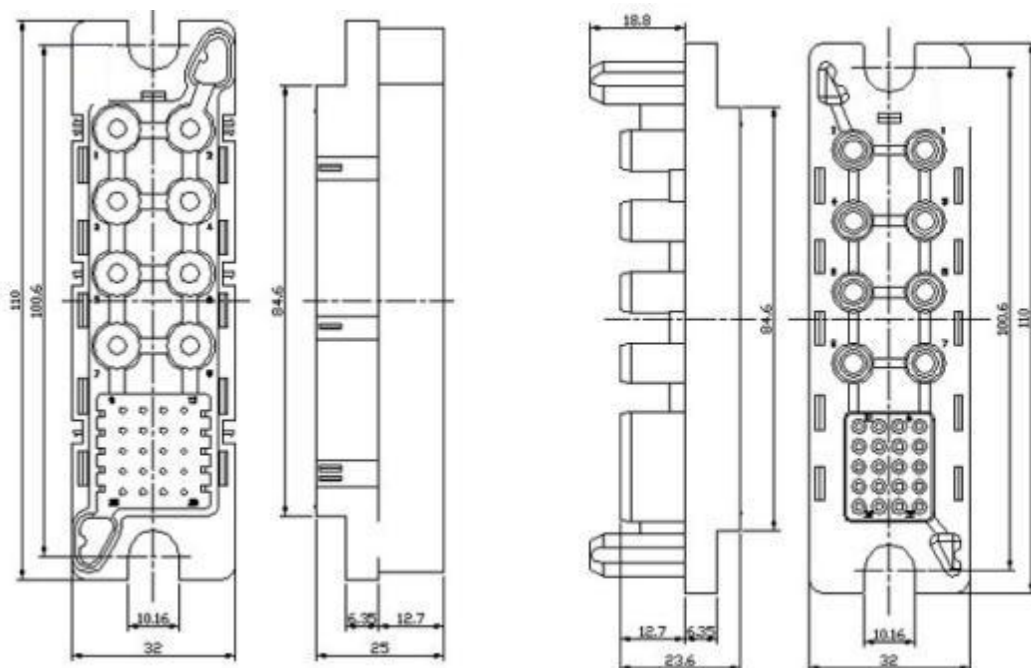
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ	
Mechanical Life		1,000 times	
Housing Material		PET G30 UL94V-0 Black	
Contact	Spec.	Signal Contact	Power Contact
		20#	8#
	Quantity	20	8
	Rated Current	5A	75A
	Contact Resistance	≤5.0mΩ	≤0.75mΩ
	Withstand Voltage	1000V	2000V
	Surface Material	Gold plated over nickel	Silver plated over nickel
	Terminal Style	Pin: Crimping (Y), PCB Tail (B), Solder Cup(H) Socket: Crimping (Y), PCB Tail (B), Solder Cup(H)	
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P-8P20SZ

F4P-8P20ST

F4P8P21S POWER CONNECTOR

Type

The Male Connector: F4P-8P21SZ1

The Female Connector: F4P-8P21ST1

Operating Environment

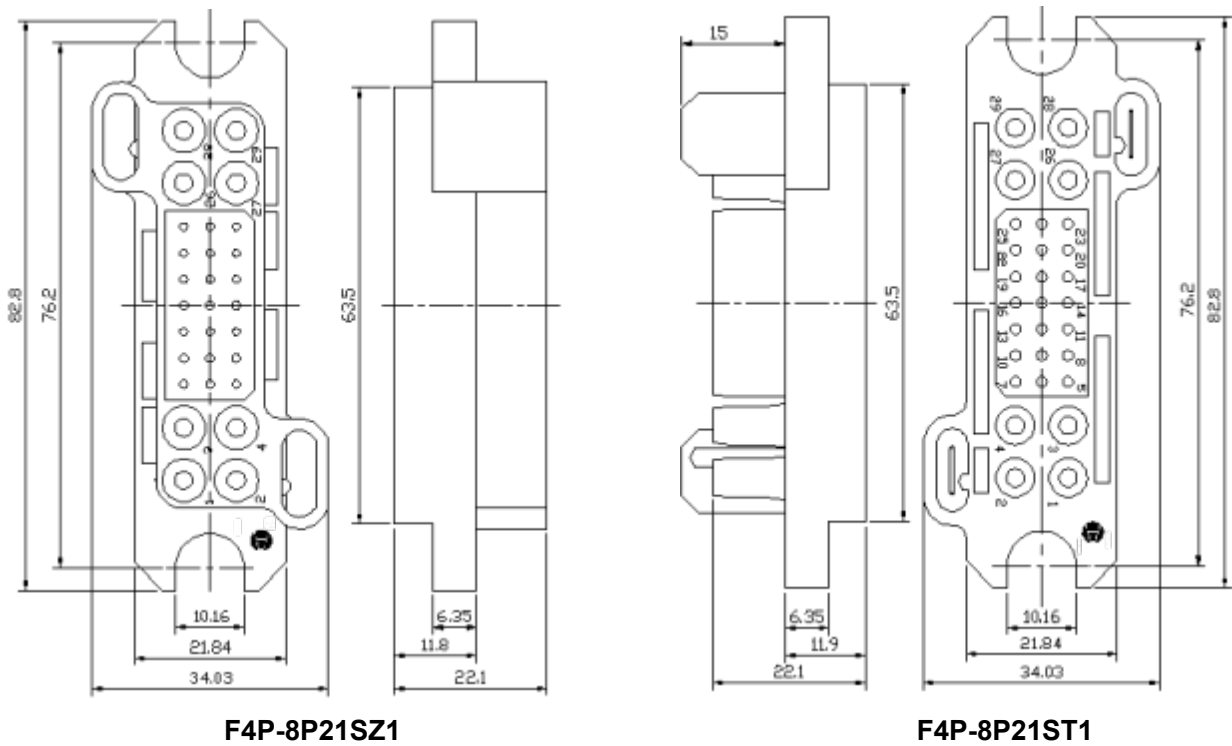
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ	
Mechanical Life		1,000 times	
Housing Material		PET G30 UL94V-0 Black	
Contact	Spec.	Signal Contact	Power Contact
		#20	#12
	Quantity	21	8
	Rated Current	5A	35A
	Contact Resistance	≤5.0mΩ	≤1.0mΩ
	Withstand Voltage	1,000V	1,500V
	Surface Material	Gold plated over nickel	Silver plated over nickel
	Terminal Style	Crimping (Y), PCB Tail (B), Solder Cup(H)	
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P10P19SA POWER CONNECTOR

Type

The Male Connector: **F4P-10P19SAZ**

The Female Connector: **F4P-10P19SAT**

Operating Environment

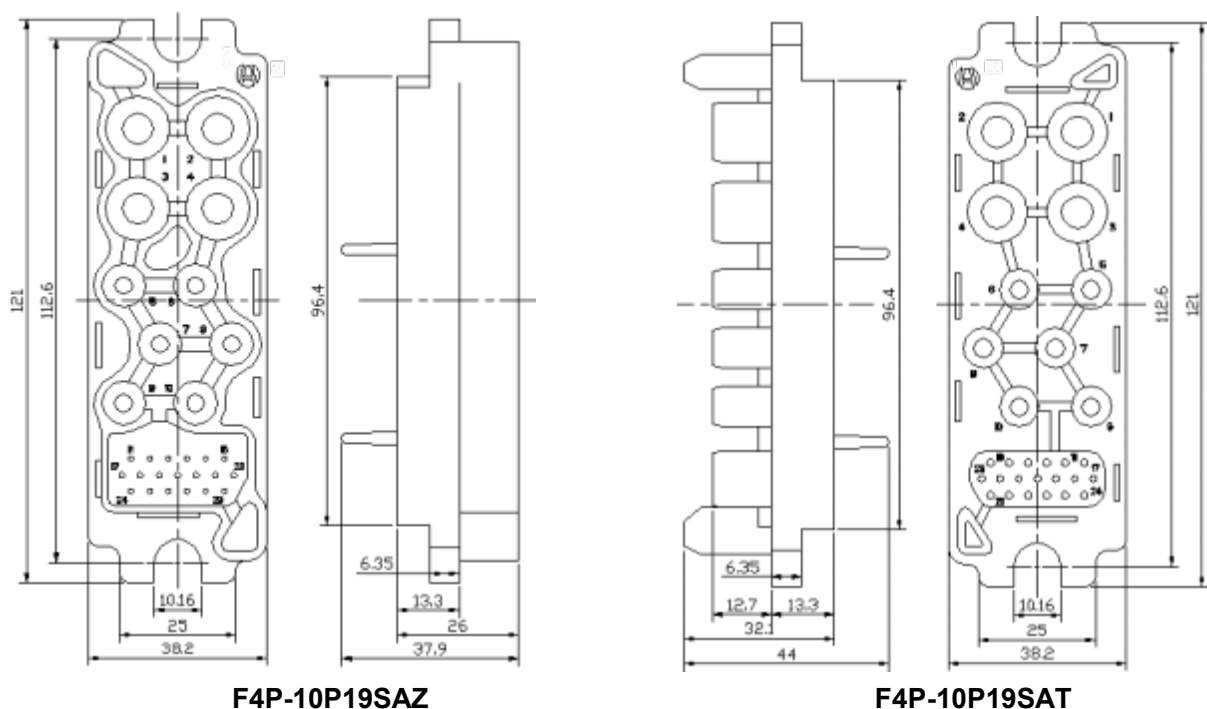
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ		
Mechanical Life		1,000 times		
Housing Material		PET G30 UL94V-0 Black		
Contact	Spec.	Signal Contact	Power Contact	
		#20	#8	#4
	Quantity	19	6	4
	Rated Current	5A	75A	125A
	Rated Voltage	50V	600V	500V
	Contact Resistance	≤5.0mΩ	≤0.75mΩ	≤0.66mΩ
	Withstand Voltage	1,000V	3,000V	2,500V
	Surface Material	Gold plated over nickel		Silver plated over nickel
	Terminal Style	Crimping (Y)		
	Material	Pin and Socket	Brass or copper	
		Crown Spring	Beryllium bronze	

External Sizes and Installation Dimensions (mm)



F4P33PNS POWER CONNECTOR

Type

The Male Connector: **F4P-33PNSZ**

The Female Connector: **F4P-33PNST**

Operating Environment

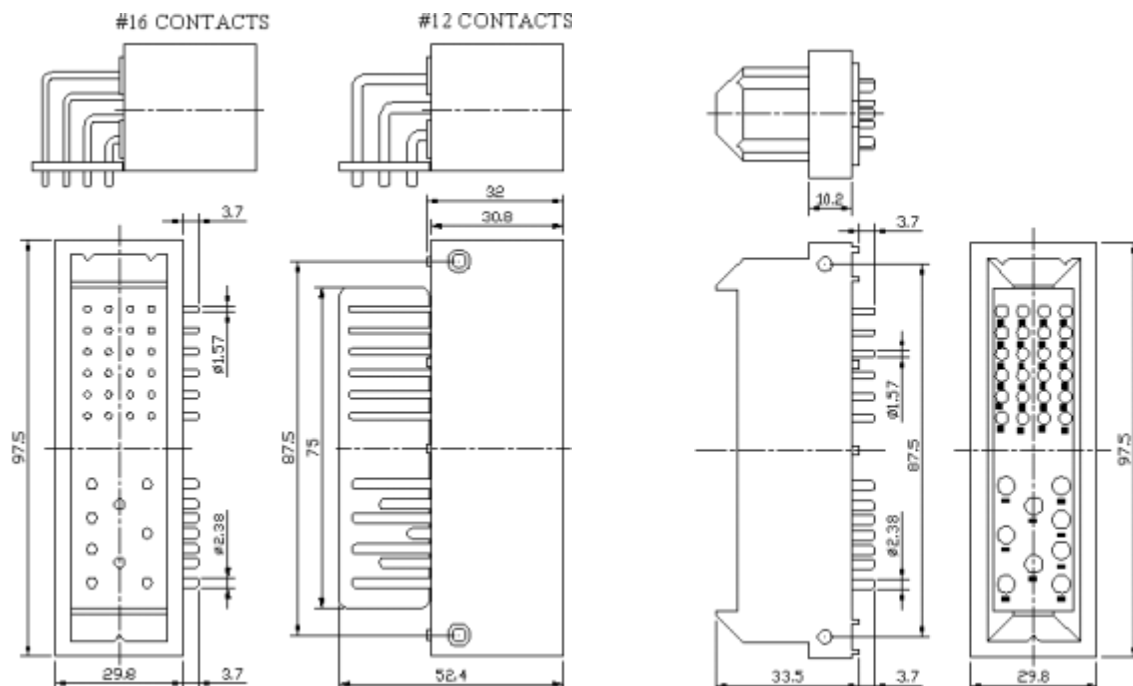
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ	
Mechanical Life		1,000 times	
Housing Material		PET G30 UL94V-0 Black	
Contact	Spec.	Power Contact	
		#16	#12
	Quantity	24	9
	Rated Current	15A	35A
	Contact Resistance	≤2.5mΩ	≤1.0mΩ
	Withstand Voltage	1,500V	1,500V
	Surface Material	Gold plated over nickel	
	Terminal Style	Pins: PCB Tail (B) (Bending Pin); Sockets: PCB Tail(B)	
	Material	Pin and Socket	Brass or copper
		Crown Spring	Beryllium bronze

External Sizes and Installation Dimensions (mm)



F4P-33PNSZ

F4P-33PNST

F4P13P24S POWER CONNECTOR (1)

Type

The Male Connector: **F4P-13P24SZ1**

The Female Connector: **F4P-13P24ST1**

Operating Environment

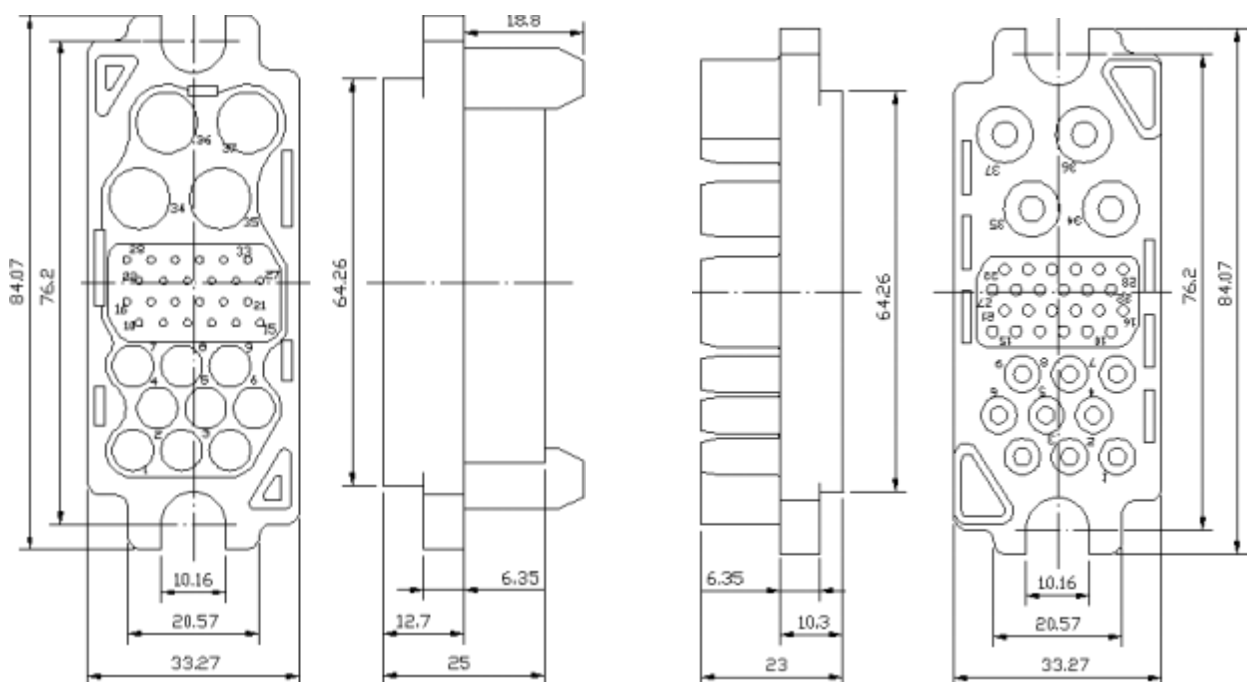
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance			≥ 1,000MΩ			
Mechanical Life			1,000 times			
Housing Material			PET G30 UL94V-0 Black			
Contact	Spec.		Signal Contact		Power Contact	
			#20	#12	#8	
	Quantity		24	9	4	
	Rated Current		5A	35A	75A	
	Contact Resistance		≤5.0mΩ	≤1.0mΩ	≤0.75mΩ	
	Withstand Voltage		1,000V	1,500V	1,500V	
	Surface Material		Gold plated over nickel		Silver plated over nickel	
	Terminal Style		Crimping (Y), PCB Tail (B), Solder Cup(H)			
	Material	Pin and Socket		Brass or copper		
		Crown Spring		Beryllium bronze		

External Sizes and Installation Dimensions (mm)



F4P-13P24SZ1

F4P-13P24ST1

F4P13P24S POWER CONNECTOR (2)

Type

The Male Connector: F4P-13P24SZ2

The Female Connector: F4P-13P24ST2

Operating Environment

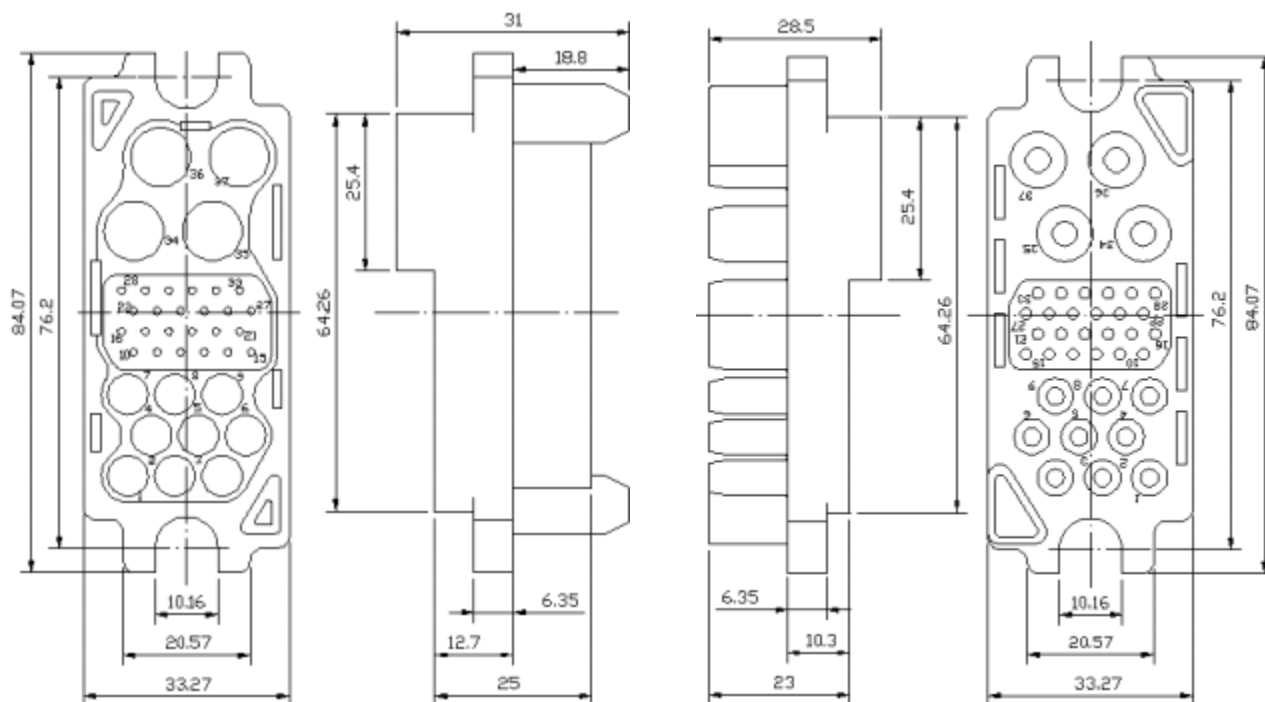
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ		
Mechanical Life		1,000 times		
Housing Material		PET G30 UL94V-0 Black		
Contact	Spec.	Signal Contact	Power Contact	
		#20	#12	#8
	Quantity	24	9	4
	Rated Current	5A	35A	75A
	Contact Resistance	≤5.0mΩ	≤1.0mΩ	≤0.75mΩ
	Withstand Voltage	1,000V	1,500V	1,500V
	Surface Material	Gold plated over nickel		Silver plated over nickel
	Terminal Style	Crimping (Y), PCB Tail (B), Solder Cup(H)		
	Material	Pin and Socket	Brass or copper	
		Crown Spring	Beryllium bronze	

External Sizes and Installation Dimensions (mm)



F4P-13P24SZ2

F4P-13P24ST2

F4P8P32S POWER CONNECTOR

Type

The Male Connector: **F4P-8P32SZ1**

The Female Connector: **F4P-8P32ST1**

Operating Environment

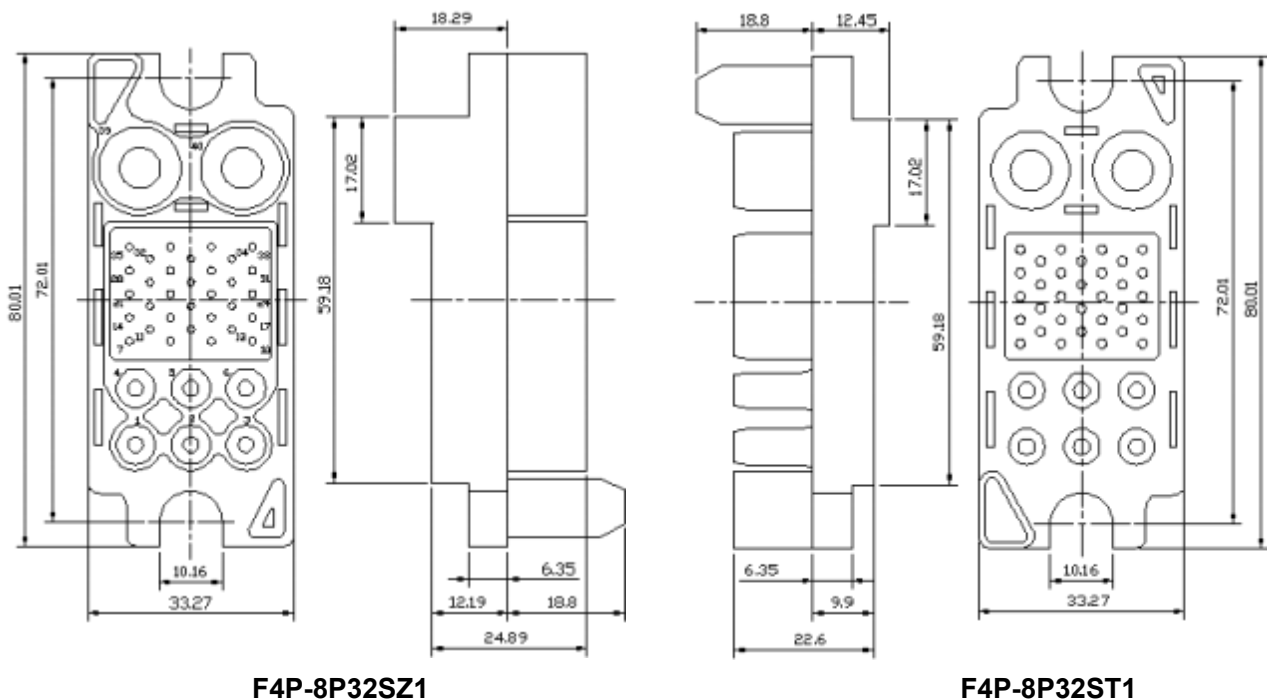
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ		
Mechanical Life		1,000 times		
Housing Material		PET G30 UL94V-0 Black		
Contact	Spec.	Signal Contact	Power Contact	
		#20	#12	#4
	Quantity	32	6	2
	Rated Current	5A	35A	125A
	Contact Resistance	≤5.0mΩ	≤1.0mΩ	≤0.66mΩ
	Withstand Voltage	1,000V	1,500V	1,500V
	Surface Material	Gold plated over nickel		Silver plated over nickel
	Terminal Style	#20 and #12: Crimping (Y), PCB Tail (B), Solder Cup(H) #4: Crimping (Y), Internal Thread (N), External Thread(W)		
	Material	Pin and Socket	Brass or copper	
		Crown Spring	Beryllium bronze	

External Sizes and Installation Dimensions (mm)



F4P12P28SA POWER CONNECTOR

Type

The Male Connector: F4P-12P28SAZ

The Female Connector: F4P-12P28SAT

Operating Environment

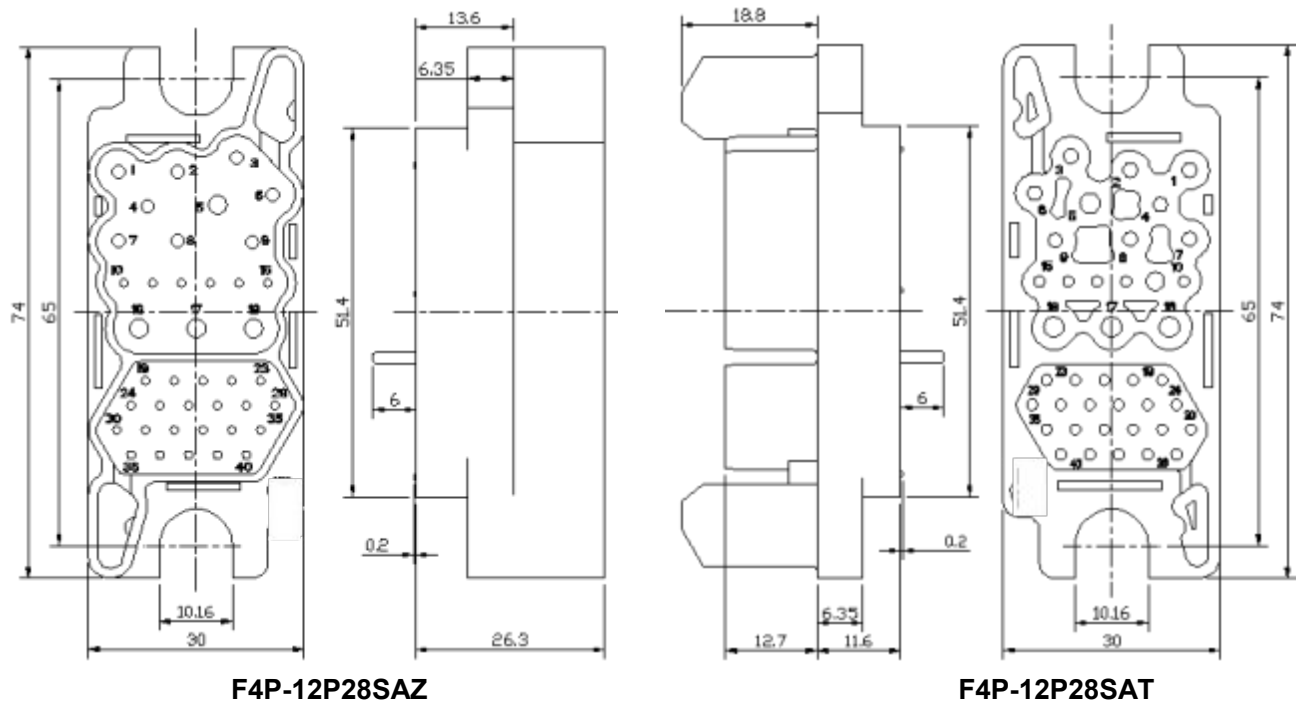
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ		
Mechanical Life		1,000 times		
Housing Material		PET G30 UL94V-0 Black		
Contact	Spec.	Signal Contact	Power Contact	
		#20	#16	#12
	Quantity	28	8	4
	Rated Current	5A	15A	35A
	Rated Voltage	50V	400V	400V
	Contact Resistance	≤5.0mΩ	≤2.5mΩ	≤1.0mΩ
	Withstand Voltage	1,000V	2,000V	2,000V
	Surface Material	Gold plated over nickel		Silver plated over nickel
	Terminal Style		#20: Crimping (Y), PCB Tail(B); #16 and #12: Crimping (Y)	
	Material	Pin and Socket	Brass or copper	
		Crown Spring	Beryllium bronze	

External Sizes and Installation Dimensions (mm)



F4P20P32S POWER CONNECTOR

Type

The Male Connector: **F4P-20P32SZ1**

The Female Connector: **F4P-20P32ST1**

Operating Environment

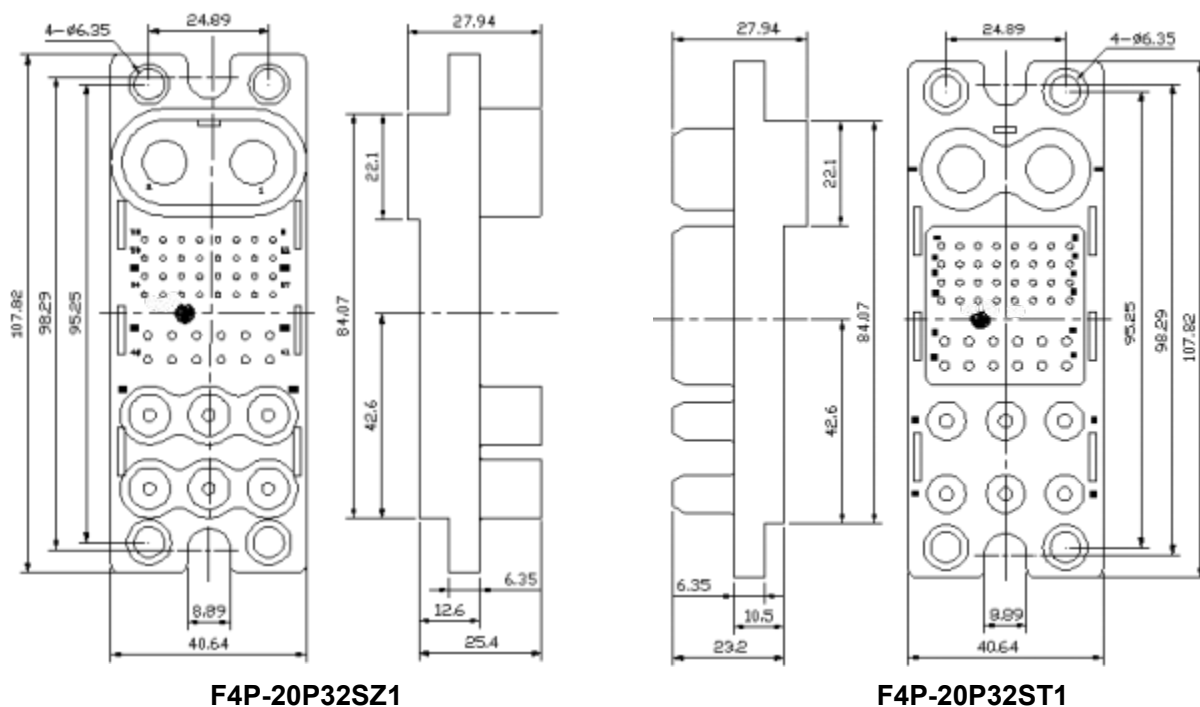
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance			≥ 1,000MΩ			
Mechanical Life			1,000 times			
Housing Material			PET G30 UL94V-0 Black			
Contact	Spec.		Signal Contact	Power Contact		
			#20	#16	#12	#0
	Quantity		32	12	6	2
	Rated Current		5A	15A	35A	150A
	Contact Resistance		≤5.0mΩ	≤2.5mΩ	≤1.0mΩ	≤0.32mΩ
	Withstand Voltage		1,000V	1,500V	1,500V	1,500V
	Surface Material		Gold plated over nickel	Silver plated over nickel		
	Terminal Style		#20, #16 and #12: Crimping (Y), PCB Tail (B), Solder Cup(H) #0: Crimping (Y),Internal Thread(N), External Thread(W)			
	Material	Pin and Socket	Brass or copper			
		Crown Spring	Beryllium bronze			

External Sizes and Installation Dimensions (mm)



F4P15P68S POWER CONNECTOR

Type

The Male Connector: F4P-15P68SZ

The Female Connector: F4P-15P68ST

Operating Environment

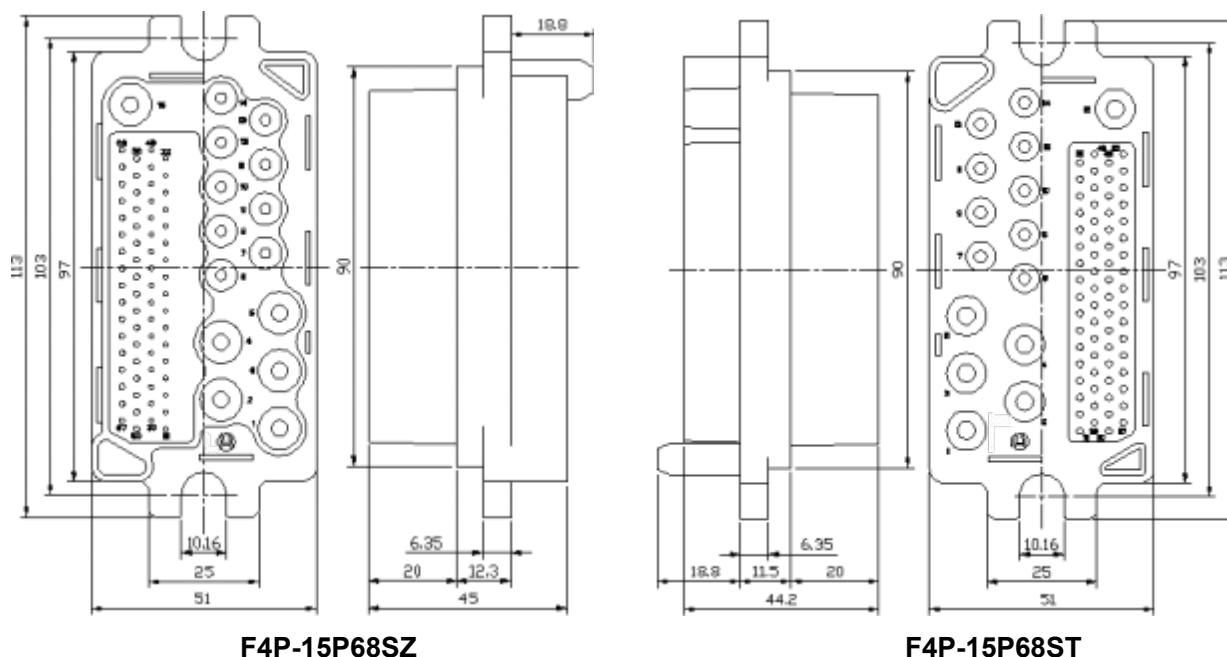
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance			≥ 1,000MΩ		
Mechanical Life			1,000 times		
Housing Material			PET G30 UL94V-0 Black		
Contact	Spec.	Signal Contact		Power Contact	
		#20	#12	#8	
	Quantity	68	9	6	
	Rated Current	5A	35A	75A	
	Rated Voltage	100V	500V	450V	
	Contact Resistance	≤5.0mΩ	≤1.0mΩ	≤0.75mΩ	
	Withstand Voltage	1,000V	2,500V	2,500V	
	Surface Material	Gold plated over nickel	Silver plated over nickel		
	Terminal Style		#20: Crimping (Y), PCB Tail (B), Solder Cup(H); #12 and #8: Crimping(Y)		
	Material	Pin and Socket	Brass or copper		
Crown Spring		Beryllium bronze			

External Sizes and Installation Dimensions (mm)



F4P15P68SA POWER CONNECTOR

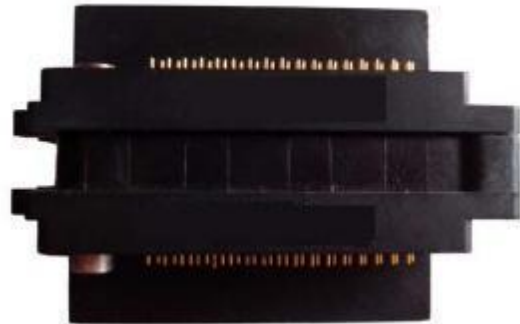
Type

The Male Connector: F4P-15P68SAZ

The Female Connector: F4P-15P68SAT

Operating Environment

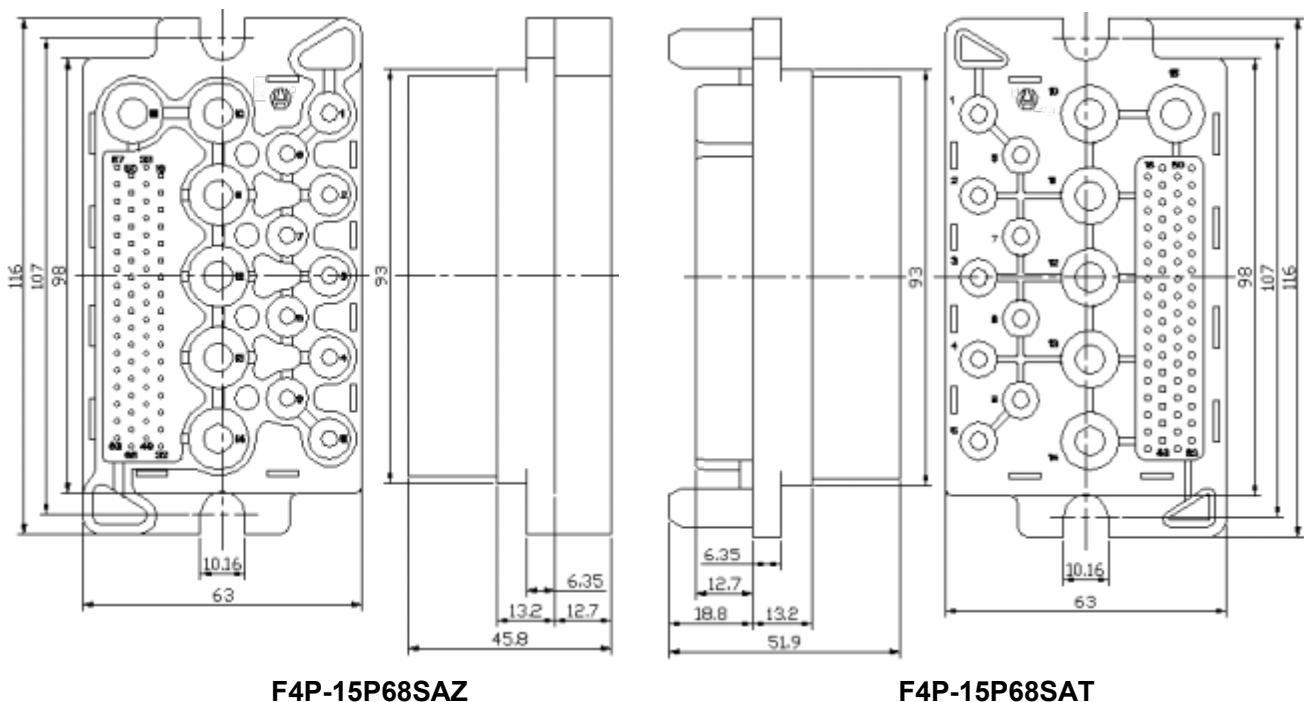
Operating Temperature	-55 to + 125 °C
Relative Humidity	98% (40 °C)
Vibration	10 to 2,000Hz (a = 147m/s ²)
Shock	Acceleration 980m/s ²



Main Technical Specifications

Insulation Resistance		≥ 1,000MΩ		
Mechanical Life		1,000 times		
Housing Material		PET G30 UL94V-0 Black		
Contact	Spec.	Signal Contact	Power Contact	
		#20	#8	#4
	Quantity	68	9	6
	Rated Current	5A	75A	125A
	Rated Voltage	50V	400V	600V
	Contact Resistance	≤5.0mΩ	≤0.75mΩ	≤0.66mΩ
	Withstand Voltage	1,000V	2,000V	3,000V
	Surface Material	Gold plated over nickel	Silver plated over nickel	
	Terminal Style		#20: Crimping (Y), PCB Tail (B), Solder Cup(H); #8 and #4: Crimping(Y)	
	Material	Pin and Socket	Brass or copper	
		Crown Spring	Beryllium bronze	

External Sizes and Installation Dimensions (mm)

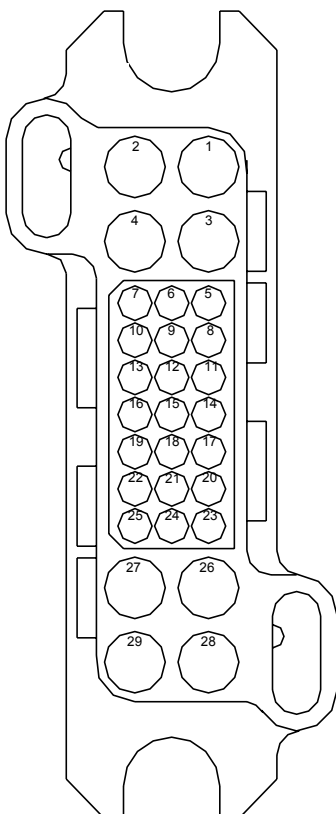


How To Order:

1. Choosing suitable product type based on technical spec such as working current, working voltage etc.
2. Confirming the quantities of contacts.
3. Confirming the terminal style of contact.
4. Confirming the working lengths of pins, there are four types, short, standard, long, extra long, if no special request, we will delivery standard pins.
5. Confirming whether the contact should be installed by supplier.
 - a. Crimping terminal contact will be packaged by supplier, but crimping and installing by customer.
 - b. PCB tail and solder cup terminal contacts are usually installed by supplier.
 - c. Thread terminal contacts are usually installed by supplier.
 - d. PCB tail (90°C) terminal contacts are installed by supplier.
6. Confirming which hole sites the contacts should be installed in.
7. Confirming whether mounting screw or nut will be needed.
8. Other requests, such as marking customer's part number on the label, RoHS etc., please let us know.
9. After confirming all above information, supplier will finish the PRODUCT CONFIGURATION FORM.

JMD29 PRODUCT CONFIGURATION FORM NO.:

DESCRIPTION	F4P29 MALE CONNECTOR	CUSTOMER CODE	
PRODUCT TYPE	F4P-29Z	DATE:	
MATERIAL NO.		VER NO.	

HOLE LAYOUT
(MATING FACE)

HOUSING:

NO.	MATERIAL NO.	PART NO.	DESCRIPTION	QTY	REMARK
1					
2					

CONTACT:

SPEC	CODE	MATERIAL NO.	PART NO.	DESCRIPTION	QTY	REMARK
12#	A					
	B					
	C					
	D					
20#	E					
	F					
	G					
	H					
	J					
	K					
	L					
	M					
	N					

NOTICES: ONLY CRIMPING CONTACTS CAN BE REMOVED FROM HOUSING.

BOTL OR NUT:

NO.	MATERIAL NO.	PART NO.	DESCRIPTION	QTY	REMARK
1					

REMARK:

EDITED BY		CHECKED BY		APPROVED BY	
-----------	--	------------	--	-------------	--

Thanks for attention to our Products
Wish we all enjoy excellent cooperation!

