

ZJ series rectangle electrical connector



Conform to Chinese military connector standard HB7293-96. ZJ series is designed as springtac socket, widely used in the connection between PCB and PCB, cable and cable, PCB and cable.

Part number

	ZJ	A	2	K	T	01
Basic series						
Type of termination						
A = Solder						
C = Crimp						
Contact number						
2, 7, 12, 15, 20, 25, 27, 37, 42, 49...						
Type of contact						
J ₁ = Straight pin						
J ₂ = 90° elbow pin						
K = Socket						
Type of connector						
T = Plug with pin						
Omit = Receptacle with socket						
Sign of modification						
01, 02...						

Performance specifications

Temperature: thermoplastic insulator: -55 °C ~ 125 °C; thermosetting insulator: -55 °C ~ 150 °C

Relative humidity: 40 °C ± 2 °C, 95%

Vibration: 10 Hz ~ 2000 Hz, acceleration 150 m/s²

Shock: acceleration 294 m/s²

Endurance: 1000 cycles

Withstanding voltage: 1000V

Rated voltage: 250V

Insulation voltage: normal ≥ 500MΩ; hot and humid ≥ 50MΩ

Electrical performance

Contact resistance and rated current

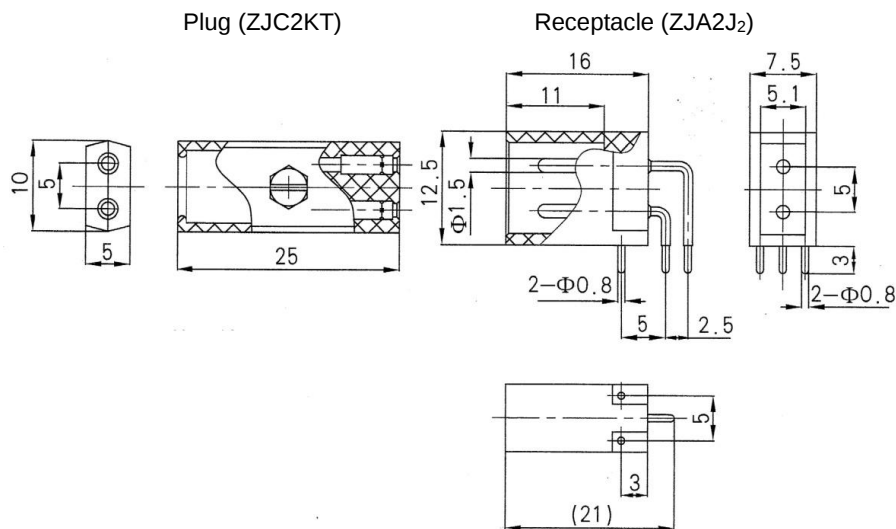
Contact diameter (mm)	Contact resistance (Ω)	Rated current (A)
Φ 0.8	≤ 0.015	2
Φ 1.0	≤ 0.005	5
Φ 1.5	≤ 0.0025	10
Φ 3.0	≤ 0.00075	40

List of part number and material

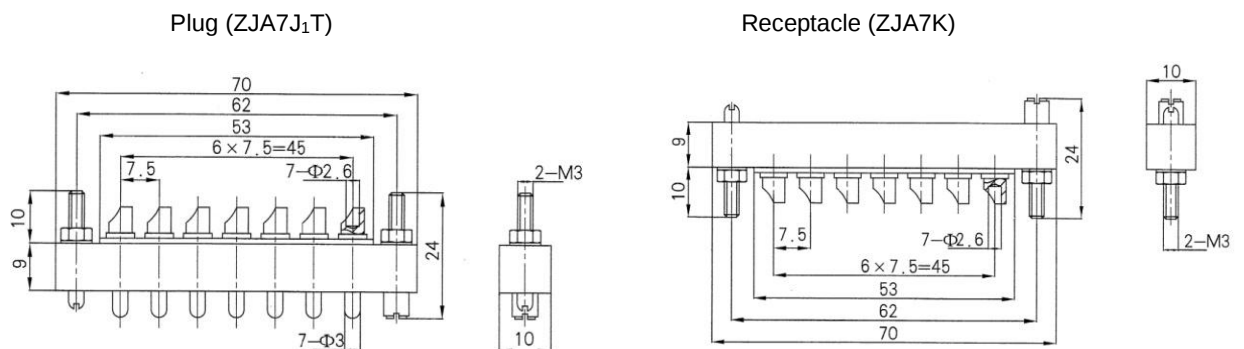
Use	Diameter	Connector	Receptacle	Plug	Insulator material	Gold plating	Drawing code
PCB&PCB	Φ 0.8	ZJA23K/J ₁ T	ZJA23K	ZJA23J ₁ T	Thermoplastic		9
		ZJA29K/J ₁ T	ZJA29K	ZJA29 J ₁ T	Thermoplastic		
		ZJA49K/J ₂ T	ZJA49K	ZJA49J ₂ T	Thermoplastic		13
		ZJA49K-02/J ₂ T-02	ZJA49K-02	ZJA49J ₂ T-02	Thermoplastic	☆	
		ZJA49K-03/J ₂ T-03	ZJA49K-03	ZJA49J ₂ T-03	Thermosetting		
		ZJA49K-05/J ₂ T-05	ZJA49K-05	ZJA49J ₂ T-05	Thermoplastic		
		ZJA107K/J ₂ T	ZJA107K	ZJA107J ₂ T	Thermosetting		14
		ZJA110K/J ₂ T	ZJA110K	ZJA110 J ₂ T	Thermosetting		16
		ZJA110K-01/J ₂ T-01	ZJA110K-01	ZJA110J ₂ T-01	Thermoplastic		
		ZJA110K-03/J ₂ T-02	ZJA110K-03	ZJA110J ₂ T-02	Thermoplastic	☆	
		ZJA120K/J ₂ T	ZJA120K	ZJA120J ₂ T	Thermoplastic	☆	15
		ZJA120K-02/J ₂ T	ZJA120K-02	ZJA120J ₂ T	Thermoplastic	☆	
		ZJA149K/J ₂ T	ZJA149K	ZJA149J ₂ T	Thermoplastic		18
		ZJA149K-01/J ₂ T-01	ZJA149K-01	ZJA149J ₂ T-01	Thermoplastic	☆	
	Φ 1.0	ZJA42K/J ₂ T	ZJA42K	ZJA42J ₂ T	Thermoplastic		12
		ZJA145K/ J ₂ T	ZJA145K	ZJA145J ₂ T	Thermoplastic	☆	17
	Φ 1.5	ZJA10K / J ₂ T	ZJA10K	ZJA10J ₂ T	Thermoplastic	☆	3
		ZJA10K-01/ J ₂ T-01	ZJA10K-01	ZJA10J ₂ T-01	Thermoplastic	☆	4
		ZJA15K-01/ J ₂ T	ZJA15K-01	ZJA15J ₂ T	Thermosetting		7
		ZJA25K / J ₂ T	ZJA25K	ZJA25J ₂ T	Thermosetting		10
		ZJA25K-01/ J ₂ T-01	ZJA25K-01	ZJA25J ₂ T-01	Thermoplastic		
		ZJA25K-03/ J ₂ T-02	ZJA25K-03	ZJA25J ₂ T-02	Thermoplastic	☆	
		ZJA25K-04/ J ₂ T-04	ZJA25K-04	ZJA25J ₂ T-04	Thermoplastic		
		ZJA25K-04/ J ₂ T-05	ZJA25K-04	ZJA25J ₂ T-05	Thermoplastic		
		ZJA37K/ J ₂ T	ZJA37K	ZJA37J ₂ T	Thermoplastic		11
PCB& cable	Φ 0.8	ZJA49K-06/ J ₂ T-03	ZJA49K-06	ZJA49J ₂ T-03	Thermosetting		13
		ZJA120K-01/ J ₂ T	ZJA120K-01	ZJA120J ₂ T	Thermoplastic	☆	15
	Φ 1.0	ZJA12J ₁ /KT	ZJA12J ₁	ZJA12KT	Thermoplastic		5
		ZJA12 J ₂ /KT	ZJA12J ₂	ZJA12KT	Thermoplastic		
		ZJA20J ₁ /KT	ZJA20J ₁	ZJA20KT	Thermoplastic		
		ZJA12 J ₂ /KT	ZJA12J ₂	ZJA20KT	Thermoplastic		
	Φ 1.5	ZJA2 J ₂ /C2KT	ZJA2J ₂	ZJC2KT	Thermosetting		1
		ZJA15K/ J ₂ T	ZJA15K	ZJA15J ₂ T	Thermosetting		7
		ZJA25K-02/ J ₂ T-01	ZJA25K-02	ZJA25J ₂ T-01	Thermoplastic		10
cable&cable	Φ 0.8	ZJA12-01/T	ZJA12-01	ZJA12-01/T	Thermosetting		6
	Φ 1.0	ZJA17K/ J ₁ T	ZJA17K	ZJA17J ₁ T	Thermosetting		8
		ZJA27K/ J ₁ T	ZJA27K	ZJA27J ₁ T	Thermoplastic		
		ZJA33K/ J ₁ T	ZJA33K	ZJA33J ₁ T	Thermosetting		
	Φ 3.0	ZJA7K/ J ₁ T	ZJA7K	ZJA7J ₁ T	Thermosetting		2

Shell size

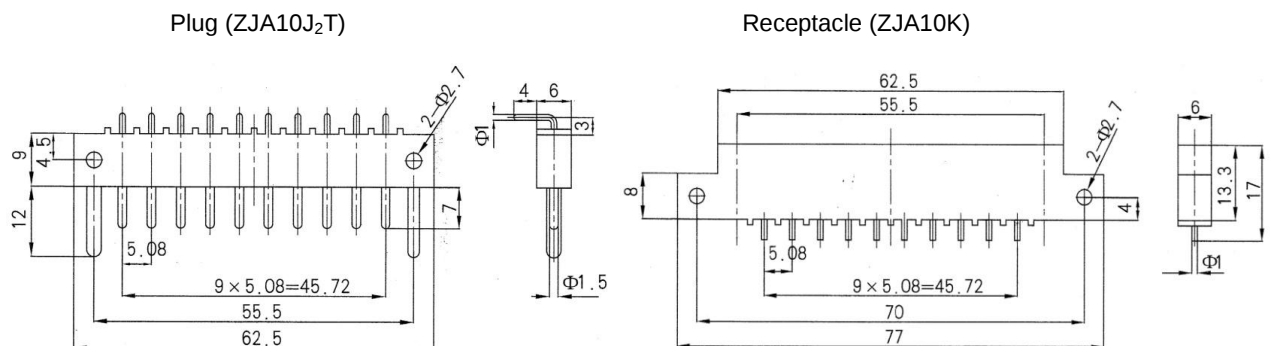
Drawing 1



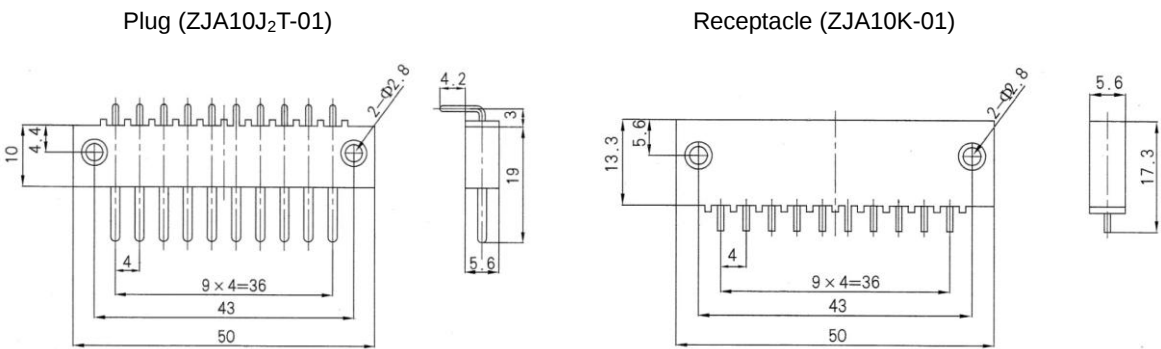
Drawing 2



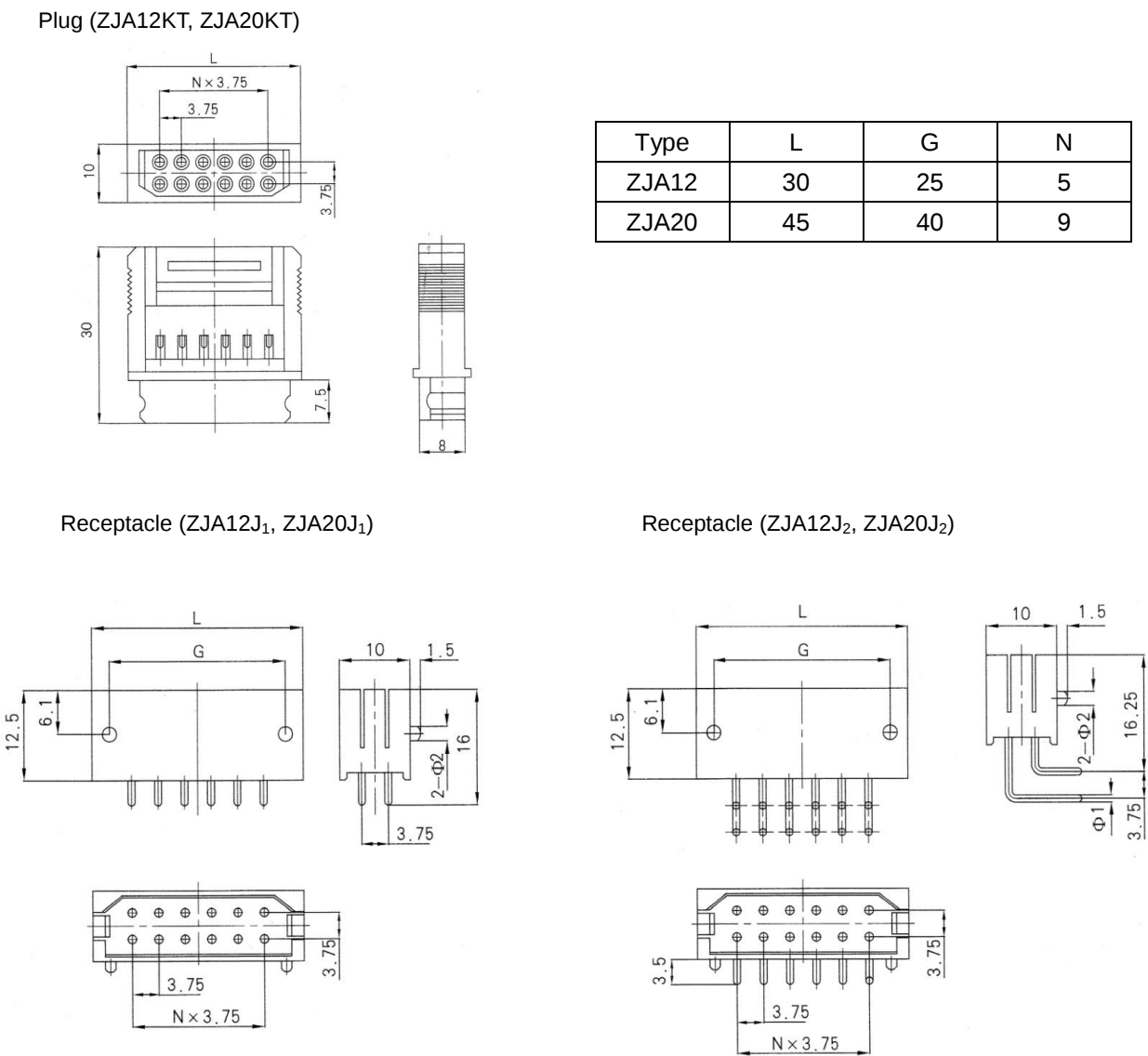
Drawing 3



Drawing 4

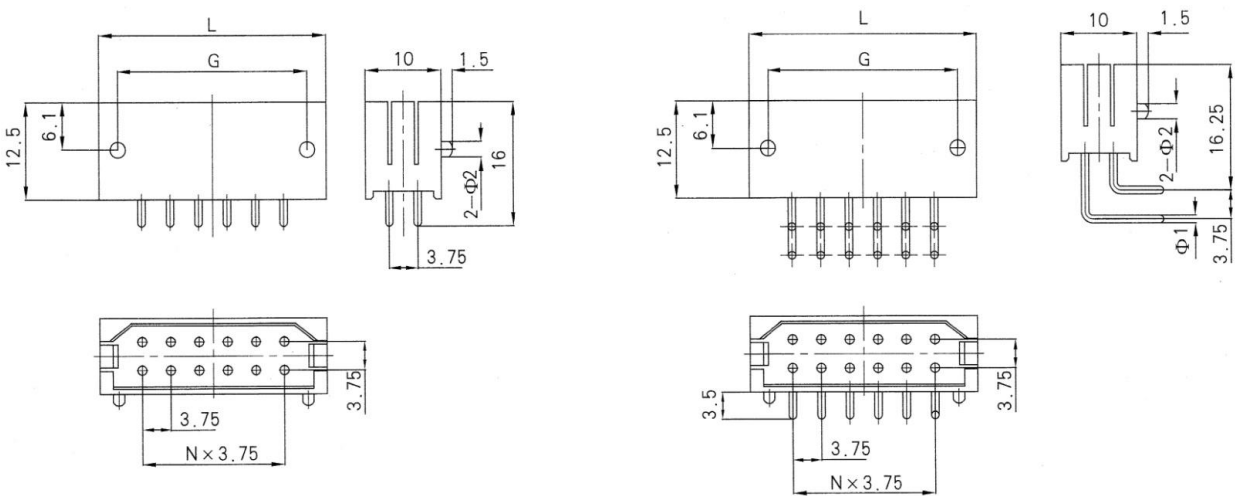


Drawing 5



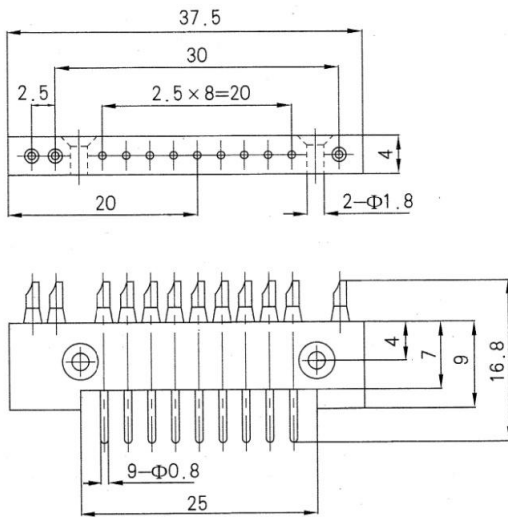
Receptacle (ZJA12J₁, ZJA20J₁)

Receptacle (ZJA12J₂, ZJA20J₂)

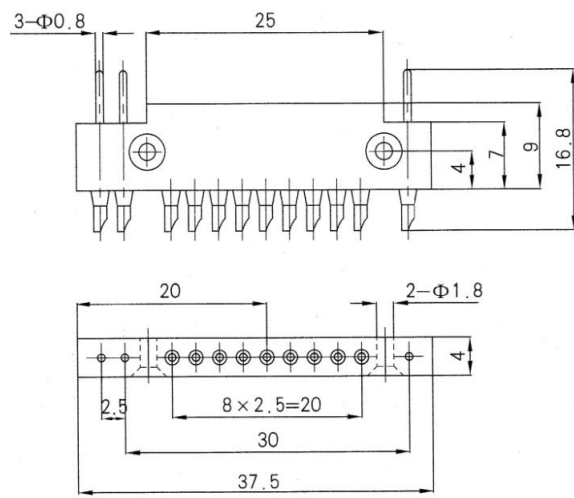


Drawing 6

Plug (ZJA12-01T)

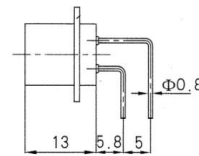
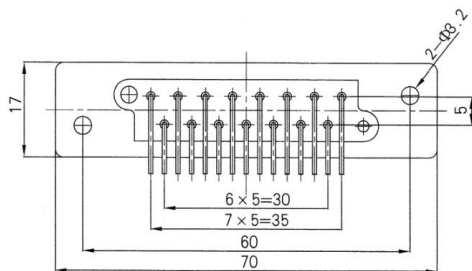


Receptacle (ZJA12-01)

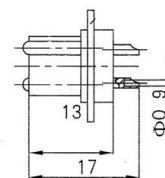
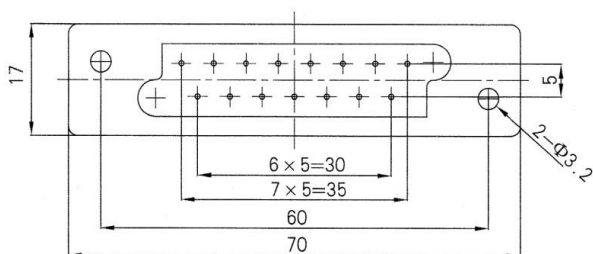


Drawing 7

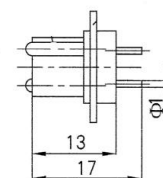
Plug (ZJA15J₂T)



Receptacle (ZJA15K, ZJA15K-01)



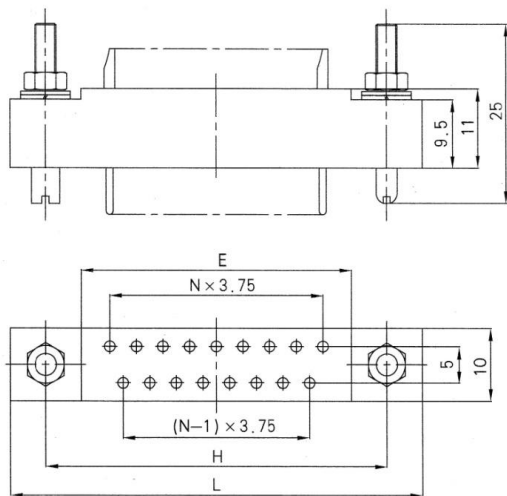
ZJA15K



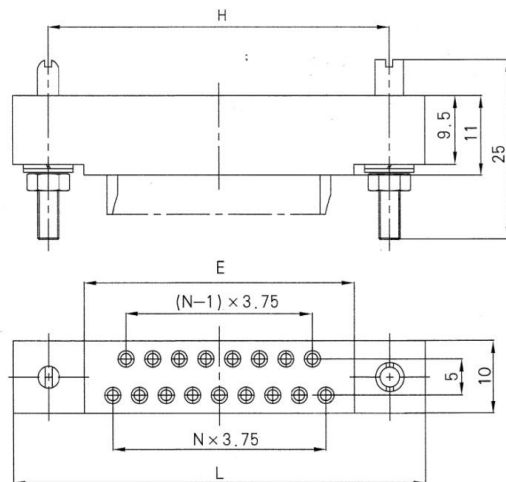
ZJA15K-01

Drawing 8

Plug (ZJA17J₁T, ZJA27J₁T, ZJA33J₁T)



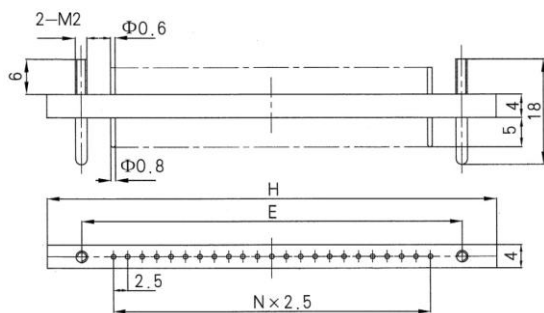
Receptacle (ZJA17K, ZJA27K, ZJA33K)



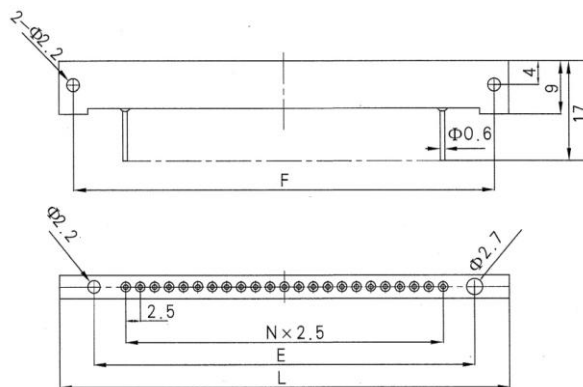
Part number	N	Dimension		
		L	H	E
ZJA17K/J ₁ T	8	58	48	38
ZJA27K/J ₁ T	13	70	62	53
ZJA33K/J ₁ T	16	90	80	70

Drawing 9

Plug (ZJA23J₁T, ZJA29J₁T)



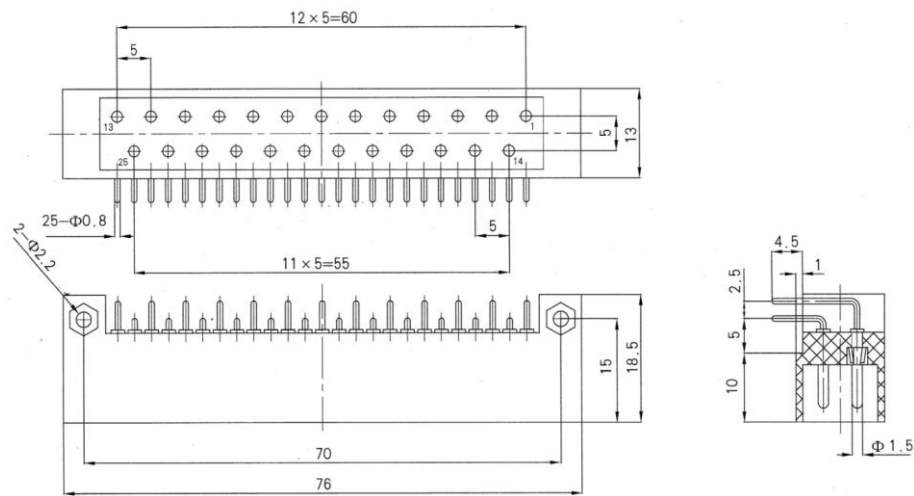
Receptacle (ZJA23K, ZJA29K)



Part number	N	Dimension			
		L	H	E	F
ZJA23K/J ₁ T	22	78	72	66	73
ZJA29K/J ₁ T	28	95	87	81	88

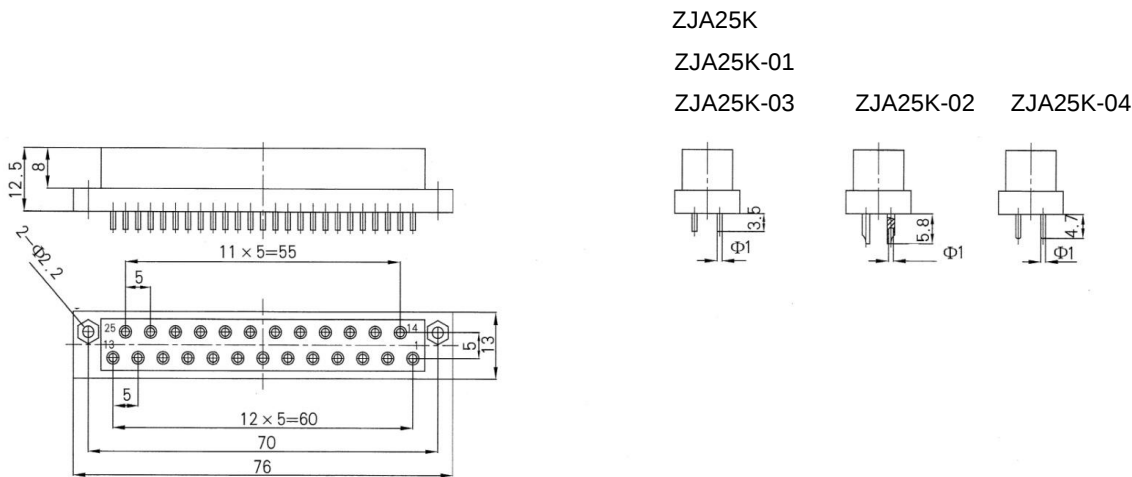
Drawing 10

Plug (ZJA25J₂T, ZJA25J₂T-01, ZJA25J₂T-02, ZJA25J₂T-04, ZJA25J₂T-05)



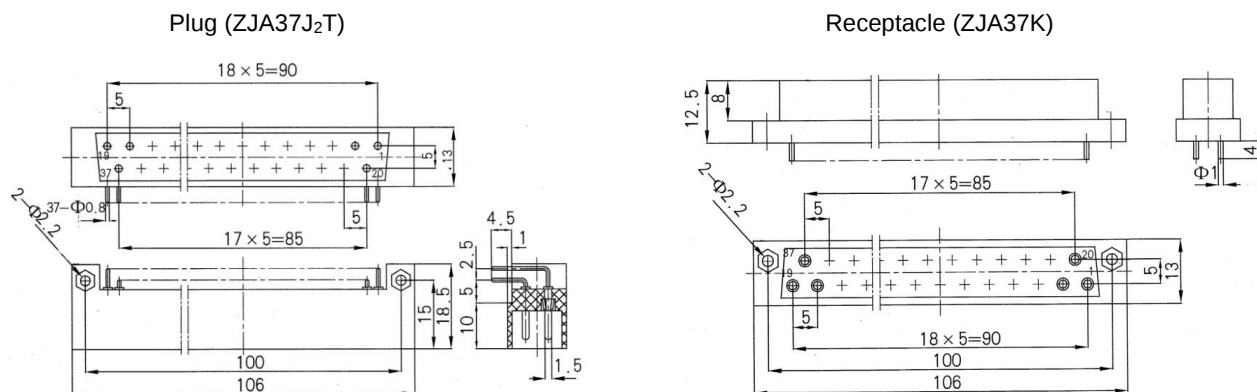
Part number	Insulator material	Contact plating	Contact Fixation
ZJA25J ₂ T	Thermosetting	Silver	Locking ring
ZJA25J ₂ T-01	Thermoplastic	Silver	Locking ring
ZJA25J ₂ T-02	Thermoplastic	Gold	Locking ring
ZJA25J ₂ T-04	Thermoplastic	Silver	Pure glue
ZJA25J ₂ T-05	Thermoplastic	Silver	Doweling belt

Receptacle (ZJA25K, ZJA25K-01, ZJA25K-02, ZJA25K-03, ZJA25K-04)

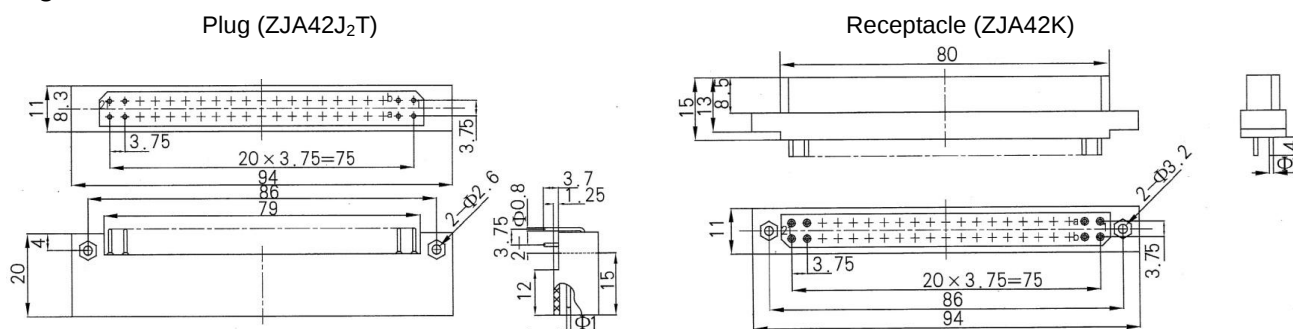


Part number	Insulator material	Contact plating	Contact fixation
ZJA25K	Thermosetting	Silver	Locking ring
ZJA25K-01	Thermoplastic	Silver	Locking ring
ZJA25K-02	Thermoplastic	Silver	Locking ring
ZJA25K-03	Thermoplastic	Gold	Locking ring
ZJA25K-04	Thermoplastic	Silver	Doweling belt

Drawing 11

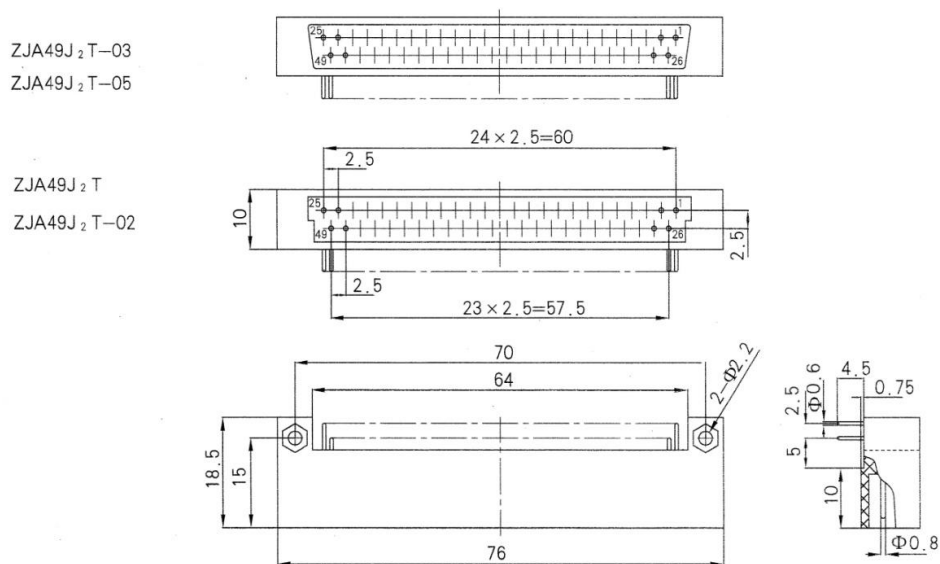


Drawing 12



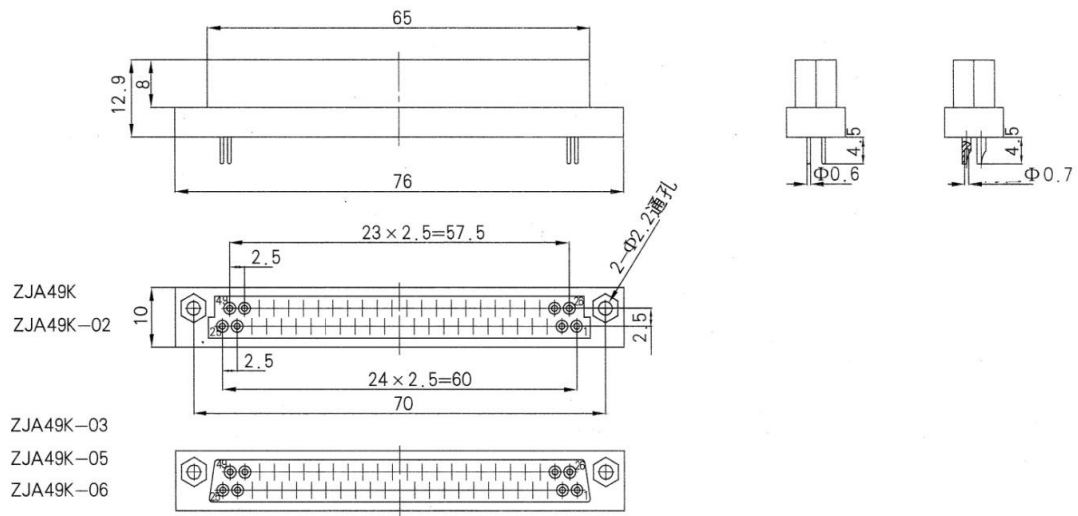
Drawing 13

Plug (ZJA49J₂T, ZJA49J₂T-02, ZJA49J₂T-03, ZJA49J₂T-05)



Part number	Insulator material	Contact plating	Contact fixation
ZJA49J ₂ T	thermoplastic	silver	Doweling belt
ZJA49J ₂ T-02	thermoplastic	gold	Doweling belt
ZJA49J ₂ T-03	thermosetting	silver	Locking ring
ZJA49J ₂ T-05	thermoplastic	silver	Doweling belt

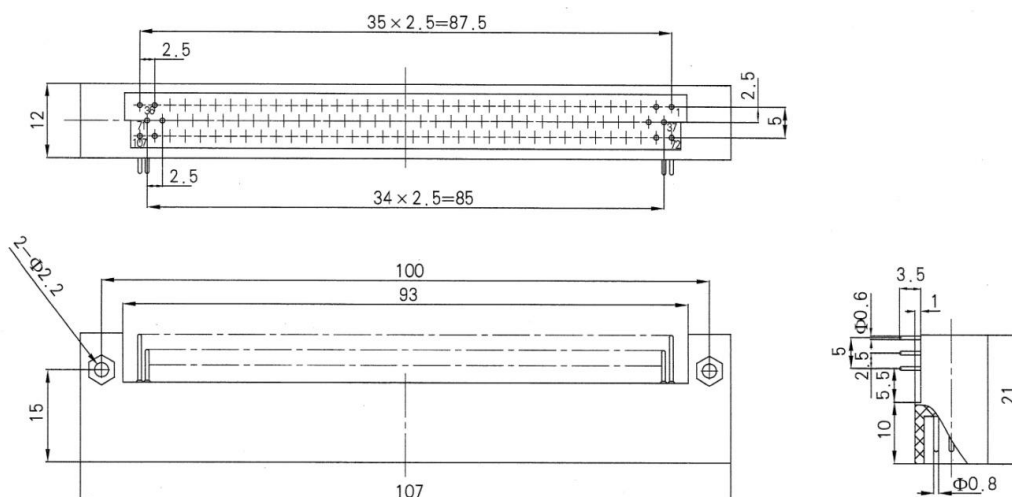
Receptacle (ZJA49K, ZJA49K-02, ZJA49K-03, ZJA49K-05, ZJA49K-06)



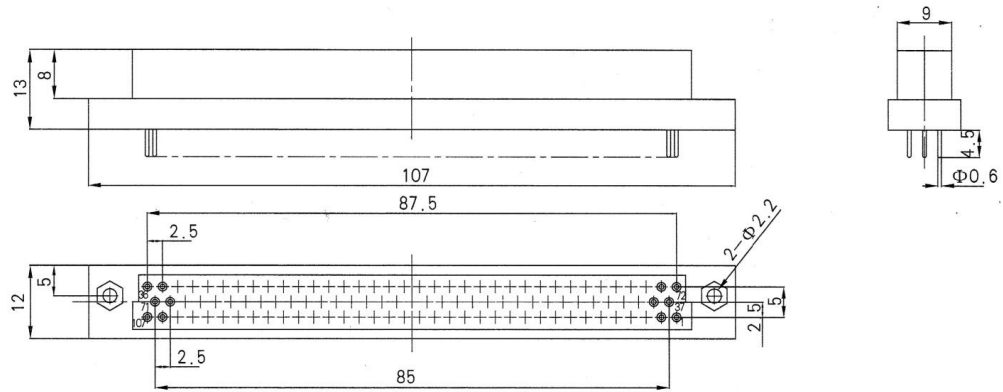
Part number	Insulator material	Contact plating	Contact fixation
ZJA49K	thermoplastic	silver	Doweling belt
ZJA49K-02	thermoplastic	gold	Doweling belt
ZJA49K-03	thermosetting	silver	Locking ring
ZJA49K-05	thermoplastic	silver	Doweling belt
ZJA49K-06	thermosetting	silver	Locking ring

Drawing 14

Plug (ZJA107J₂T)

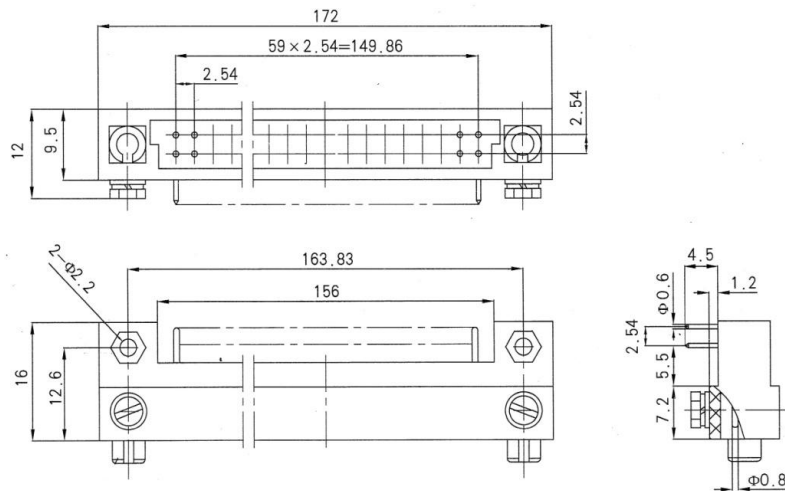


Receptacle (ZJA120J₂T)

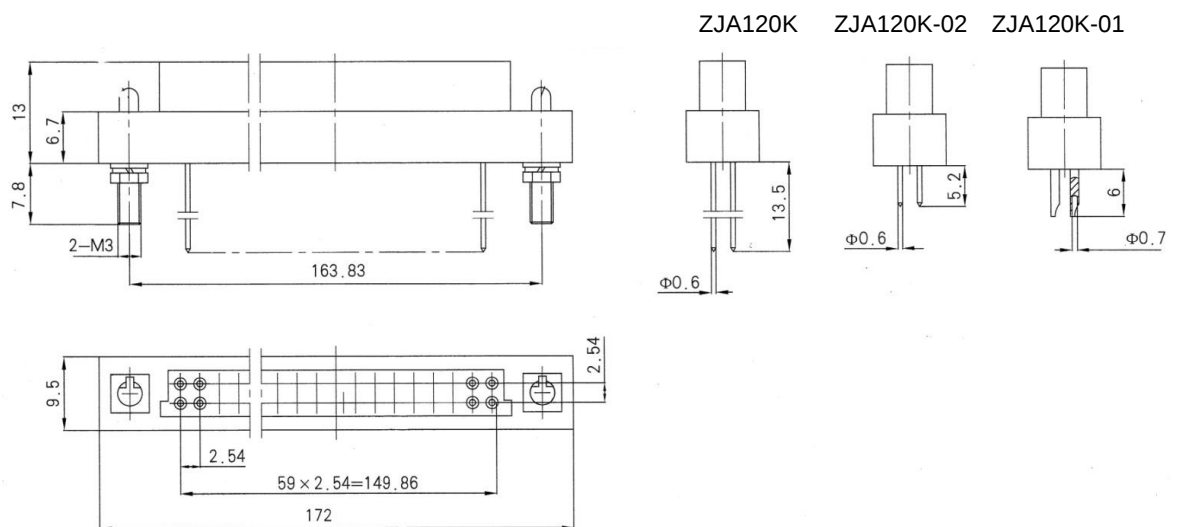


Drawing 15

Plug (ZJA120J₂T)

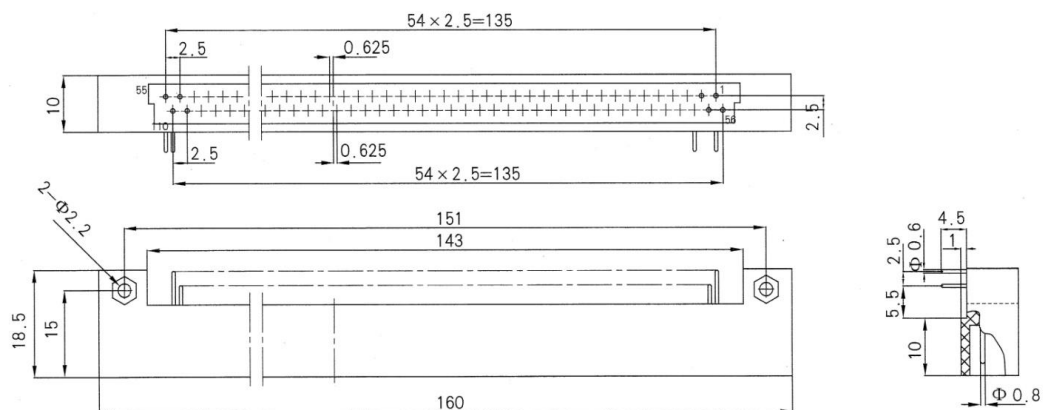


Receptacle (ZJA120K, ZJA120K-01, ZJA120K-02)



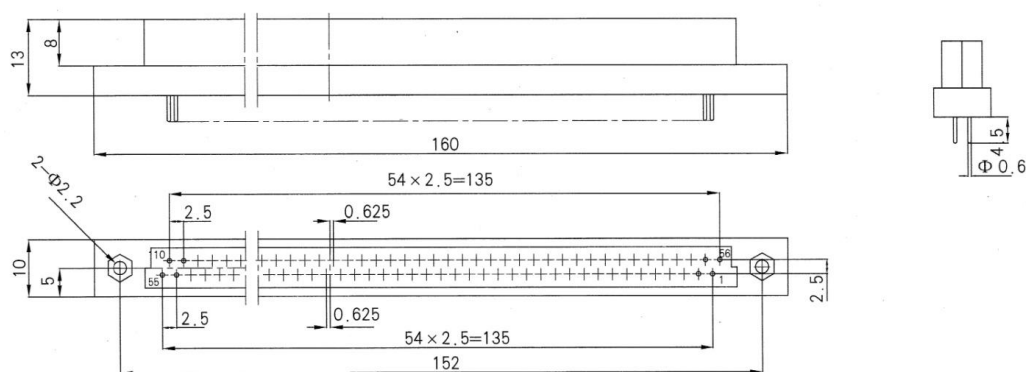
Drawing 16

Plug (ZJA110J₂T, ZJA110J₂T-01, ZJA110J₂T-02)



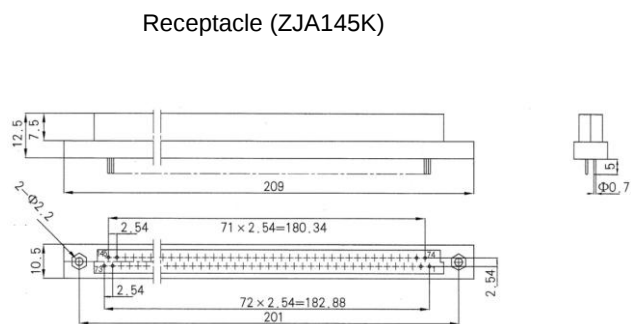
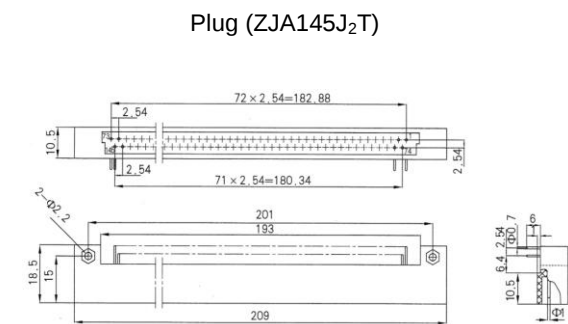
Part number	Insulator material	Contact plating	Contact fixation
ZJA110J ₂ T	Thermosetting	Silver	Locking ring
ZJA110J ₂ T-01	Thermoplastic	Silver	Locking ring
ZJA110J ₂ T-02	Thermoplastic	Gold	Locking ring

Receptacle (ZJA110K, ZJA110K-01, ZJA110K-03)



Part number	Insulator material	Contact plating	Contact fixation
ZJA110K	Thermosetting	Silver	Locking ring
ZJA110K-01	Thermoplastic	Silver	Locking ring
ZJA110K-03	Thermoplastic	Gold	Locking ring

Drawing 17



Drawing 18

