

## ZV95-24 Series Circular Electrical Connectors

### Brief introduction

- Bayonet coupling
- Type of termination: crimping
- Hyperboloid wire spring socket with high reliability
- Plug and receptacle loaded with pins or sockets
- Various insert arrangement optional
- Standard: Q/21EJ615

### Main technical characteristics

——Rated current and contact resistance:

Contact diameter (mm)	Contact resistance (mΩ)	Rated current (A)
φ1.0	≤4.5	5
φ1.5	≤2.5	10
φ2.0	≤1.25	20
φ3.0	≤0.75	40

——Rated current: normal temperature 500V

——Withstanding voltage: normal temperature 1500V; heat and damp 1125V

——Insulation resistance: normal temperature ≥5000MΩ, heat and damp ≥100MΩ

——Operation temperature: -40°C~+125°C

——Vibration: frequency 10~2000Hz  
acceleration: 147m/s<sup>2</sup>

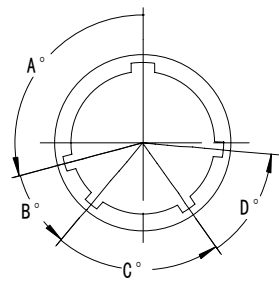
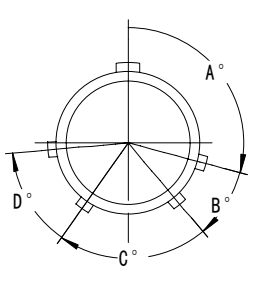
——Shock: acceleration 490m/s<sup>2</sup>

——Endurance: 500 cycles








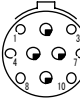



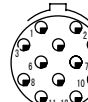




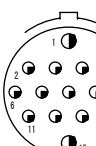
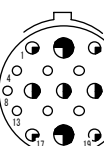
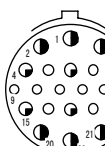
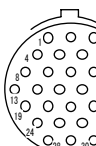
### Ordering Information

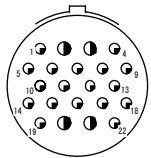
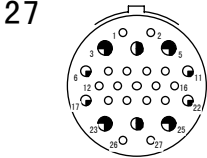
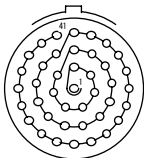
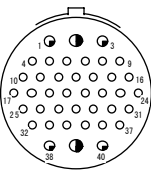
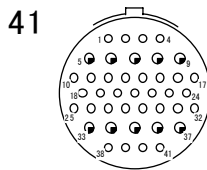
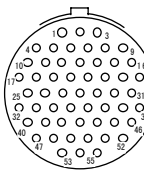
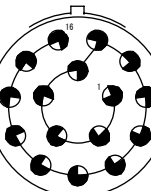
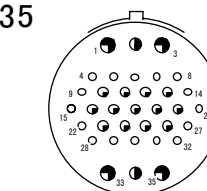
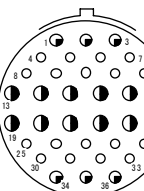
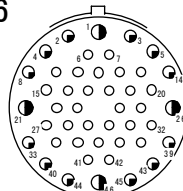
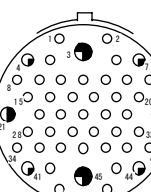
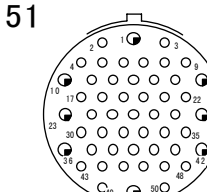
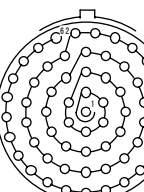
<b>Series</b>	ZV95	Y	18	F	-6	Z	J <sub>1</sub>	N	-02
<b>Type of termination</b>	Y—crimping								
<b>Shell size</b>	14, 18, 22, 24, 27, 30, 33, 36, 39								
<b>Mounting type(only for receptacle)</b>	F—square flange mounting								
<b>Layout</b>	see "Layout table"								
<b>Connector type</b>	T—plug; Z—receptacle								
<b>Contact type</b>	J <sub>1</sub> —pin (gold plated); K <sub>1</sub> —socket (gold plated)								
<b>Polarization</b>	N, W, X, Y, Z								
<b>Modification code</b>	-02								

### Polarization

		Polarization	Angle				Color	
			A	B	C	D		
 Socket key pitch	 Plug key pitch	Normal	N	105°	140°	215°	265°	Light blue
		Changes	Y	100°	142°	220°	260°	Green
Z	110°		145°	208°	250°	Yellow		
A	95°		135°	210°	255°	Black		
B	90°		130°	224°	270°	red		

### Layout Table

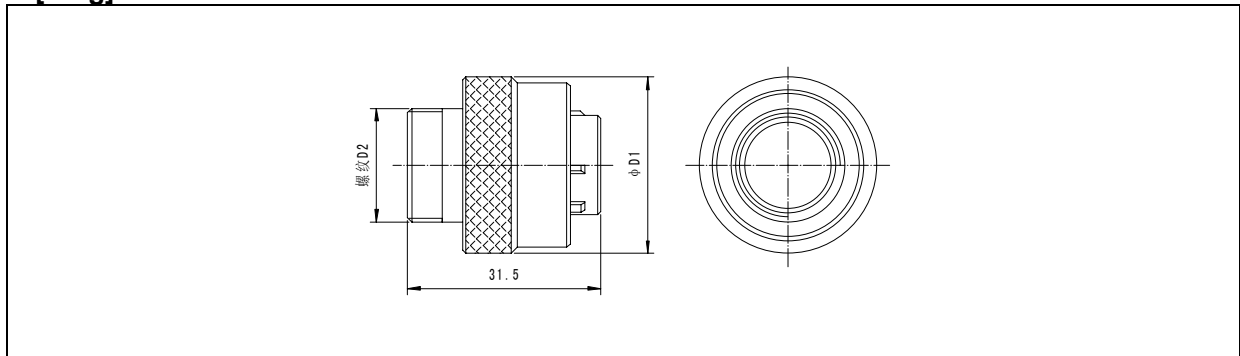
Shell number		1		2		3		4	
14	1			2		3		4	
18	4		5		7				
22	10		14		8				
24	5		12		19				
27	12		19		24				
30	15		19		22		30		

33	22		27		41			
	36		41		55			
39	16		35		36		46	
	47		51		62			

- $\phi 1.0$  Contact pieces
- ◐  $\phi 1.5$  Contact pieces
- ◑  $\phi 2.0$  Contact pieces
- $\phi 3.0$  Contact pieces

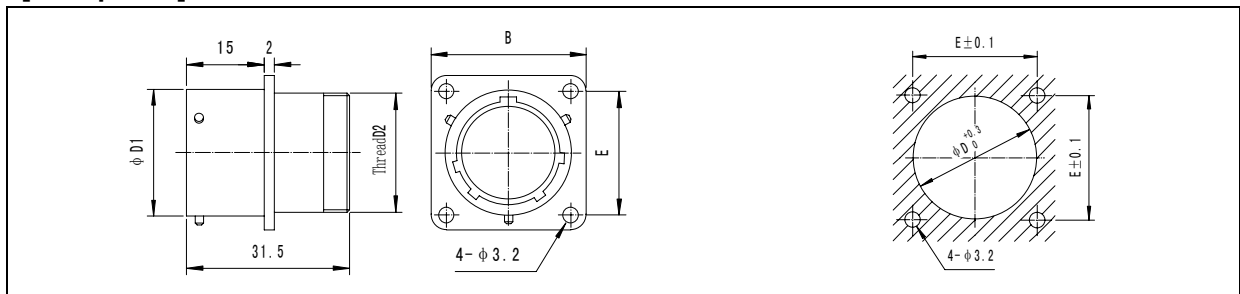
## Outline dimensions

### [Plug]



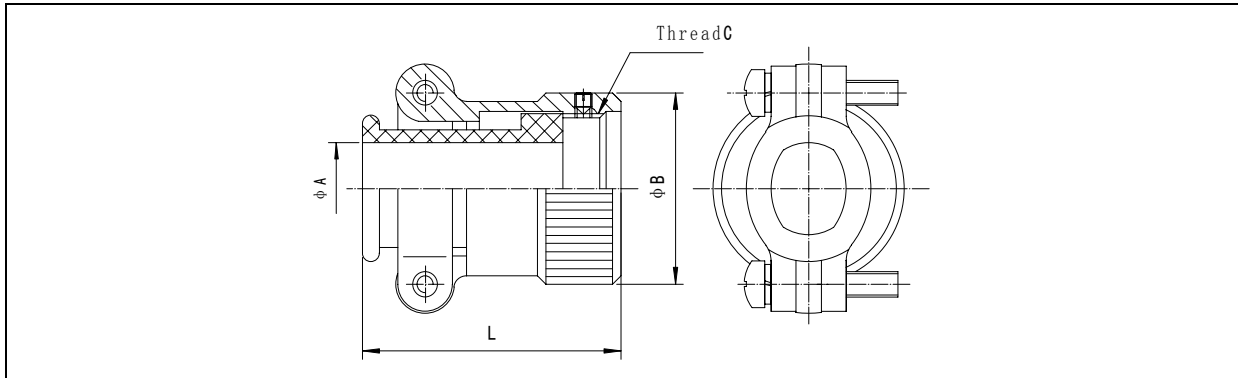
Shell size	D1	Thread D2
14	24	M14×1
18	28	M18×1
22	32	M22×1
24	34	M24×1
27	37	M27×1
30	40	M30×1
33	43	M33×1
36	46	M36×1
39	49	M39×1

### [Receptacle]



Shell size	D1	Thread D2	B	E	D
14	15.7	M14×1	25	19	14.5
18	19.7	M18×1	27.5	21.5	18.5
22	23.7	M22×1	30	24	22.5
24	25.7	M24×1	32	26	24.5
27	28.7	M27×1	34.5	28	27.5
30	31.7	M30×1	36.5	30	30.5
33	34.7	M33×1	39.5	32.5	33.5
36	37.7	M36×1	41	34	36.5
39	40.7	M39×1	43	36	39.5

## Applicable accessories



Accessory P/N	L	A	B	Thread C
ZV95-18FJ-11.1	31	11.1	23	M18×1
ZV95-18FJ-12.7	31	12.7	23	M18×1
ZV95-22FJ-16	31	16	27	M22×1
ZV95-24FJ-12.7	32.5	12.7	29	M24×1
ZV95-30FJ-12.7	32.5	12.7	35	M30×1

### Notes:

- 1、 Design accessories with various cable outlet diameters according to customer requirements;
- 2、 Customers can select XC series accessories according to their needs (with the same end thread).

## Crimped contact selection

Size (mm)	Color ring	Crimp bucket ID (mm)	Crimp bucket OD (mm)	Applicable wire section (mm <sup>2</sup> )	Crimp tool/locator code	Extraction tool code
Φ1.0	red	Φ1.0	Φ2.1	0.20 0.35 0.50	XCXY/DWQ-01	XCQZ-Φ1
Φ1.5	red	Φ1.4	Φ2.8	0.75 1.00	XCXY/DWQ-01	XCQZ-Φ1.5
Φ2.0	red	Φ2.1	Φ3.6	2.00	XCXY/DWQ-01	XCQZ-Φ2
Φ3.0	red	Φ3.2	Φ4.6	4.00	XCXY/DWQ-01	XCQZ-Φ3