

AY01-24 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℃~+125℃

——Vibration: frequency 10~2000Hz
acceleration: 147m/s²

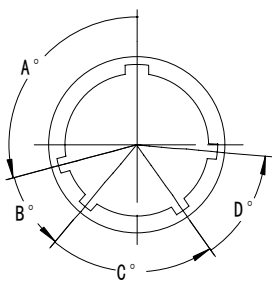
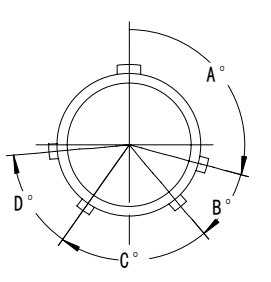
——Shock: acceleration 490m/s²

——Endurance: 500 cycles

Ordering Information

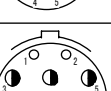
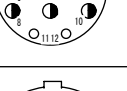
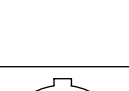
Series	AY01	Y	18	F	-6	Z	J₁	N	-02
Type of termination	Y—crimping								
Shell size	14, 18, 22, 24, 27, 30, 33, 36, 39								
Mounting type(only for receptacle)	F—square flange mounting								
Layout	see “Layout table”								
Connector type	T—plug; Z—receptacle								
Contact type	J ₁ —pin (gold plated); K ₁ —socket (gold plated)								
Polarization	N, W, X, Y, Z								
Modification code	-02								

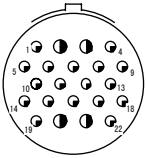
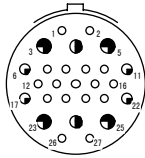
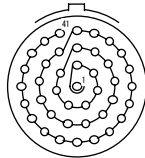
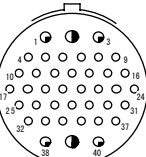
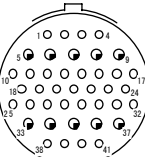
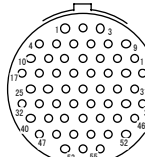
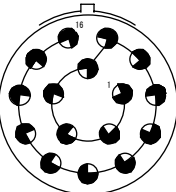
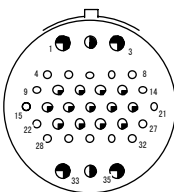
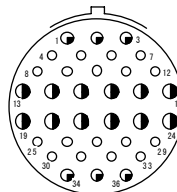
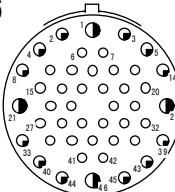
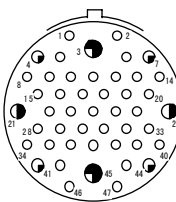
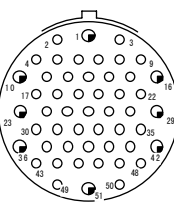
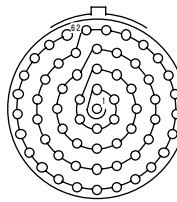
Polarization

		Polarization	Angle				Color	
			A	B	C	D		
		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

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	40		41		55		
39	16		35		36		46	
	47		51		62			

○ $\phi 1.0$ Contact pieces

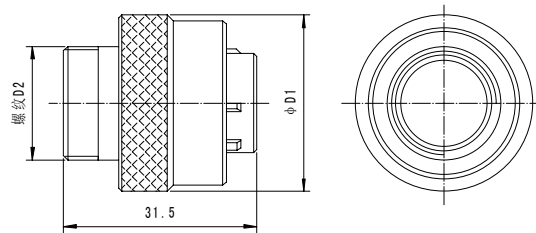
◐ $\phi 1.5$ Contact pieces

◑ $\phi 2.0$ Contact pieces

● $\phi 3.0$ Contact pieces

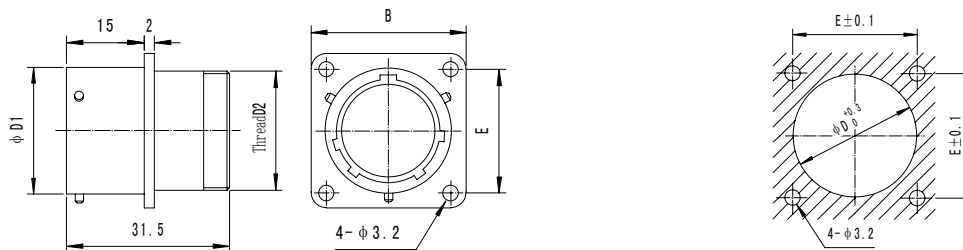
Outline dimensions

[Plug]



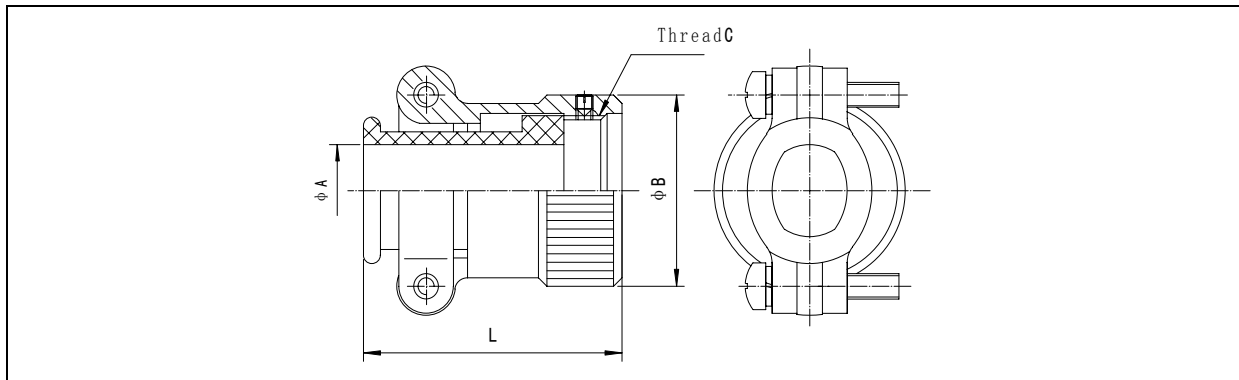
Shell size	D1	Thread D2
14	24	M14×1
18	28	M18×1
22	32	M22×1
24	34	M24×1
27	37	M27×1
30	40	M30×1
33	43	M33×1
36	46	M36×1
39	49	M39×1

[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
AY01-18FJ-11.1	31	11.1	23	M18×1
AY01-18FJ-12.7	31	12.7	23	M18×1
AY01-22FJ-16	31	16	27	M22×1
AY01-24FJ-12.7	32.5	12.7	29	M24×1
AY01-30FJ-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 ²)	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