

12#	Φ2.40	1.5	23
10#	Φ3.15	1	40

—Applicable wire:

Contact size	Cross section (mm ²)	AWG	Outer dia. of cable (mm)	
			min	max
22#	0.08, 0.13, 0.21, 0.33	28, 26, 24, 22	0.76	1.27
20#	0.21, 0.33, 0.52	24, 22, 20	1.02	2.11
16#	0.52, 0.82, 1.31	20, 18, 16	1.65	2.77
12#	2.08, 3.31	14, 12	2.46	3.61
10#	5.26	10	3.42	4.12

—Insulation resistance: normal temperature 5000MΩ; High temperature 1000MΩ; Damp& Heat 100MΩ

—Withstanding voltage: V

Service rating*	M	I	II	N
Sea level	1300	1800	2300	1000
21336m	350	400	500	260

Note: Different insert arrangements have different service rating. See insert arrangement

—EMI shielding:

The minimum attenuation should be 85dB (P, W and Z class) at 100MHz~1GHz

The minimum attenuation should be 65dB (W and Z class) at 1GHz~10GHz

[RF contact]

- 16# shielding contact (P/N: pin-J1216/76-424; socket-J1216/77-428)
- 12# shielding contact (P/N: pin -J1216/28-211; socket -J1216/75-416)

—Low level contact resistance (only for inner contact)

Contact	Max contact resistance (mΩ)	
	Initial	After test
16#	170	204
12#	55	66

—Test current and voltage drop

Contact	Test current (A)	Voltage drop (mV)			
		25°C		175°C	200°C
		Initial	After test	After test	
16#	1	170	204	290	—
12#				—	290
16#	12	150	180	255	—
12#				—	255

—Withstanding voltage (between the inner and outer contact):

sea level: 750 Vrms; 15240m: 250 Vrms

- 12# coaxial contact (P/N: pin-J1216/102-558; socket-J1216/103-559)

—Nominal impedance: 50Ω

—Operating frequency: DC0~3GHz

—Low level contact resistance (only for inner contact): initial 55mΩ, after test 66 mΩ

—Withstanding voltage: sea level: 1000 Vrms; 15240m: 250 Vrms

—Test current and voltage drop:

Contact	Test current (A)	Voltage drop (mV)		
		25°C		200°C
		Initial	After test	
Inner contact	1	55	66	94
Outer contact	12	75	90	128

—VSWR: frequency: 500MHz~3GHz, VSWR \leq 1.20+0.04F (F unit: GHz)

—Insertion loss: dB max=0.11 \sqrt{f} (f unit: GHz) . When F is at 3GHz and tested in accordance with MIL-C-39012., insertion loss should not be more than 0.20dB

- 12# coaxial contact (40GHz) (P/N: pin-J1216/102-558C; socket-J1216/103-559C)

—Nominal impedance: 50 Ω

—Operating frequency: DC0~40GHz

—VSWR: 0~18GHz: \leq 1.3; 18~40GHz: \leq 1.7

—Withstanding voltage (between center conductor and outer conductor) : 500 Vrms

—Vibration: 10~2000Hz, power spectral density 1g²/Hz at high temperature

- 8# twin axial contact (P/N: pin -J1216/90-529; socket -J1216/91-530)

—Low level contact resistance (only for center contact and intermediate contact) : initial 55m Ω , after test 66 m Ω

—Test current and voltage drop:

Contact	Test current (A)	Voltage drop (mV)		
		25°C		175°C
		Initial	After test	After test
Center contact	1.0	55	66	94
Intermediate contact	1.0	55	66	94
Outer contact	12	75	90	128

—Operating frequency: 0~20MHz

—Rated voltage: Sea level: 500 V rms; 21336m: 125 V rms

—Withstanding voltage:

Contact	Height	Test voltage (V) rms
From center to intermediate	Sea level	500
From intermediate to outer		1000

[Differential contact]

- 8# differential contact (2 contacts P/N: pin-CF81/211-01; socket-CF82/211-01)

- 8# differential contact (4 contacts P/N: pin -CF81/411-01; socket -CF82/411-01)

—Withstanding voltage (V rms) :

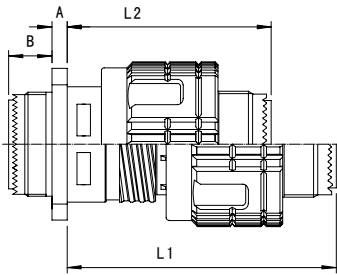
Normal: from center conductor to outer conductor: 500V AC;

Between center conductor: 1000V AC

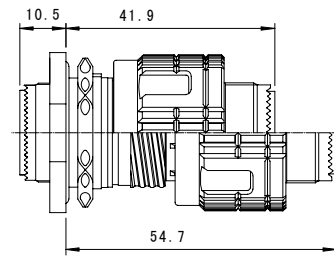
—Contact resistance: \leq 15m Ω (only for center contact)

Mating dimension of plug and receptacle

Square flange receptacle
(C172/42)/ plug(C172/48)



Jam nut receptacle ()plug ()



Shell size	09(A)	11(B)	13(C)	15(D)	17(E)	19(F)	21(G)	23(H)	25(J)	
L1	max	53.2	53.2	53.2	53.2	53.2	53.2	52.4	52.4	52.4
L2	max	40.3	40.3	40.3	40.3	40.3	40.3	39.6	39.6	39.6
A	max	2.5	2.5	2.5	2.5	2.5	2.5	3.2	3.2	3.2
B	max	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6

Sealing cap of plug and receptacle

[How to order]

Basic series	C172	32	W	09	N
Type	/ 32—Sealing cap of plug 33—Sealing cap of receptacle				
	Y—Olive green, cadmium plating, aluminum alloy				
Shell and plating	M—Stainless steel passive B—Aluminum alloy, zinc-nickel plating				
	5WDBDOORSDV VM				
Shell size	09-11-13-15-17-19-21-23-25				
	7—Stainless steel wire with coupling parts (for square flange receptacle)				
	C—Nylon yarn with coupling parts (for square flange receptacle)				
Chain type	3- Stainless steel with ring (for jam nut receptacle)				
	8- Nylon yarn with ring (for jam nut receptacle)				

Note: The sealing cap should be ordered separately and not be supplied with connectors

[Outline dimension]

Shell size	09(&)	11(□)	13(□)	15(∩)	17(*)	19(±)	21(∩)	23(±)	25(I)

A	max	22.86	25.40	30.48	33.02	36.83	39.37	43.18	44.45	48.26
B	min	12.92	17.78	19.27	22.60	25.62	28.95	31.97	34.03	38.32
C	max	22.86	27.86	30.48	31.75	36.83	38.10	41.91	44.45	48.26
D	min	17.78	21.33	25.62	28.95	31.97	35.30	38.32	41.65	44.45
L	max	127.00	127.00	127.00	127.00	127.00	127.00	127.00	127.00	127.00

Accessory

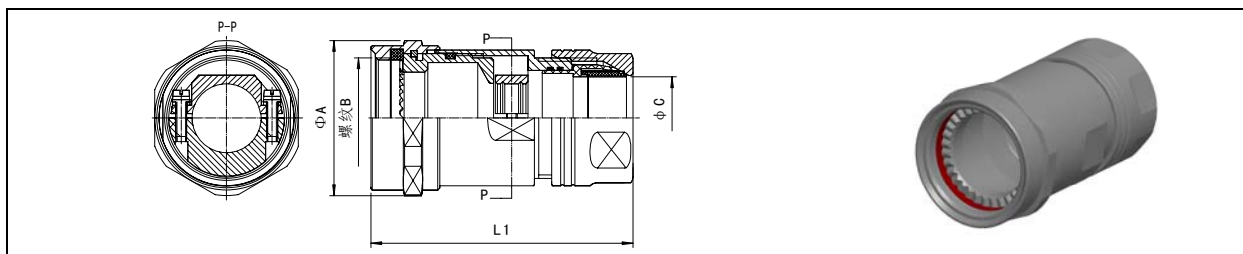
The accessory is for fixing the wire and sealed cable and is composed of right angle and straight accessories with the inner pressure plate for clamping the cable or wire. At the same time, the pressure plate can clamp the braid for shielding

[Ordering information]

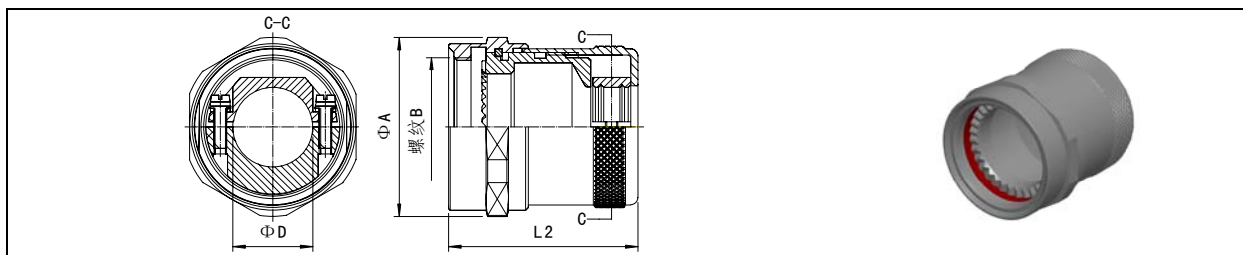
Basic series		C172/	18-	15	Y	01
Type	38—Straight shielding accessory 39—Right angle shielding accessory 18—Straight shielding sealed accessory 19—Right angle shielding sealed accessory					
Shell size	09-11-13-15-17-19-21-23-25					
Shell and plating	Y—Olive green, cadmium plating, aluminum alloy M—Stainless steel passive B—Aluminum alloy, zinc-nickel plating R—Titanium alloy passive					
Entry code	Sealing accessory: 01, 02...		Non-sealing accessory: blank			

[Outline dimension]

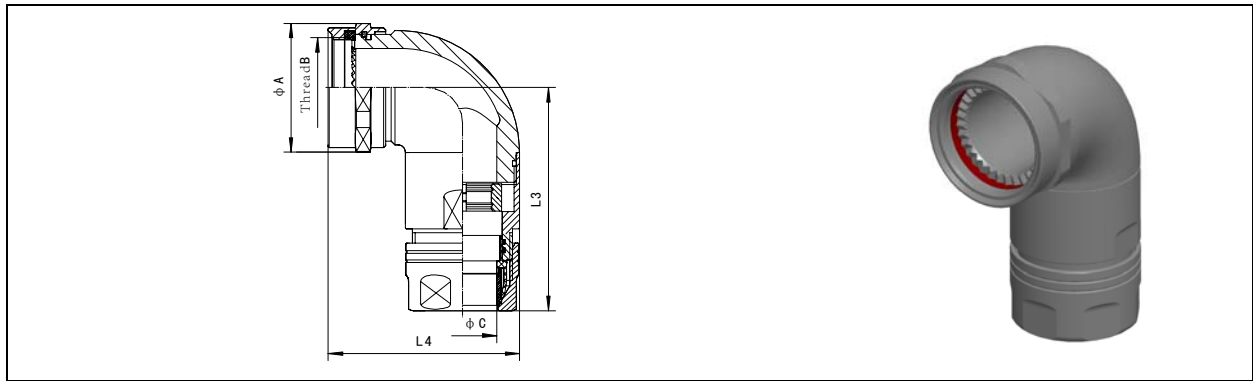
● C172/18-XXXX



● C172/38-XXXX



● C172/19-XXXX



● C172/39-XXXX

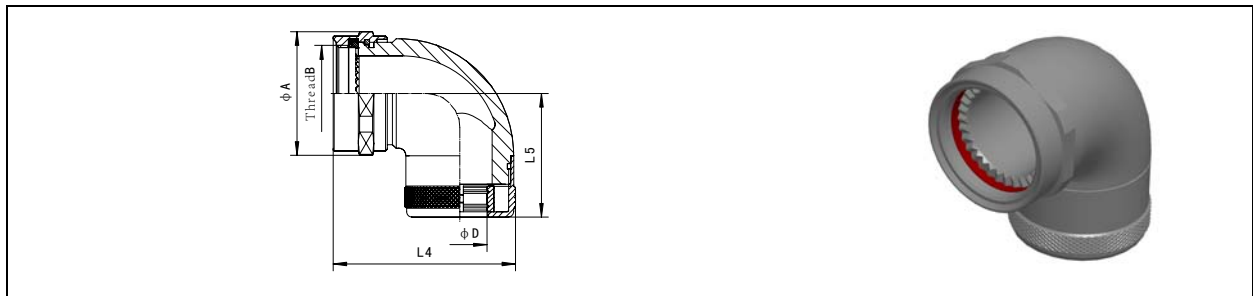


Table 1

Shell size	A	Thread B	L1 max	L2 max	L3 max	L4 max	L5 max	Shielding sealed accessory Diameter of entry Code C	Shielding accessory Diameter of entry D(max)
09	19	M12×1	47.6	28.7	47.4	39.2	26	01、02	4
11	22.2	M15×1	49.6	30.2	48.0	40.7	26	01、02、03	7
13	25.4	M18×1	52.1	31.7	52.0	46.2	29	01、02、03	10
15	29.6	M22×1	57.7	33.2	56.0	48.0	29	01、02、03	12
17	32.8	M25×1	59.7	35.2	60.0	51.7	33	01、02、03	14
19	36	M28×1	64.7	38.3	62.0	54.5	33	01、02、03	16
21	39.2	M31×1	68.0	41.5	68.0	56.7	39	01、02、03	19
23	42.4	M34×1	71.0	44.6	68.0	59.2	39	01、02、03	22
25	45.6	M37×1	73.1	46.7	73.0	64.7	44	01、02、03	25

Table 2

Shell size	Entry code	Entry dimension (C)
09	01	3.5~5.5
	02	2~4
11	01	5~7.5
	02	3.5~5.5
13	01	7.5~10.5
	02	5~7.5
	03	3.5~5.5
15	01	8.5~12
	02	7.5~10.5
	03	5~7.5

17	01	10.5~15
	02	8.5~12
	03	7.5~10.5
19	01	13.5~18
	02	10.5~15
	03	8.5~12
21	01	16.5~21
	02	13.5~18
	03	10.5~15
23	01	18.5~23.5
	02	16.5~21
	03	13.5~18
25	01	21.5~26.5
	02	18.5~23.5
	03	16.5~21

Square flange rubber cushion

	Shell size	Square flange rubber cushion code	Conductive square flange rubber cushion code	C	D	E	I	F
	C	21E8.701.885	21E8.701.886	23.9	16.1	18.26	15.09	3.3
	D	21E8.701.887	21E8.701.888	26.3	19.2	20.62	18.26	3.3
	E	21E8.701.889	21E8.701.890	28.7	22.4	23.01	20.62	3.3
	F	21E8.701.891	21E8.701.892	31.1	25.6	24.61	23.01	3.3
	G	21E8.701.893	21E8.701.894	33.4	30.4	26.97	24.61	3.3
	H	21E8.701.895	21E8.701.896	36.6	32.0	29.36	26.97	3.3
	I	21E8.701.897	21E8.701.898	39.8	34.9	31.75	29.36	3.3
	J	21E8.701.899	21E8.701.900	43.0	38.3	34.93	31.75	4.0
	L	21E8.701.901	21E8.701.902	46.1	41.4	38.10	34.93	4.0

Note: The common square flange cushion is supplied with product. If the conductive square flange rubber cushion is required, it should be noted in P/N (The identification C2 can be added after the P/N)