

# Small-sized Circular Waterproof Connector

## WEB Series



WEB-E-01



### SUMMARY

A waterproof version of the JM series for factory automation applications. The WEB series meets IP67 requirements for resistance to moisture, oil, and dust. This connector system is vibration proof, features field serviceable solder contacts and a bayonet coupling mechanism offers quick and secure plugging and unplugging of cables.

### FEATURES

#### Secure Bayonet Coupling

Coupling mechanism offers a tactile response when the ring is fully mated by turning it 90 degrees clockwise. Secure and tight mating results in a reliable connection and less wear on contacts under conditions of vibration.

#### Small Size and High Contact Density

Miniature design for applications where space is at a premium.

#### Shell Polarization Protects Contacts

Five keys on metal shell align connectors during plugging.

#### Quick and Easy Solder Termination

Soldering is facilitated by the solder cups being oriented in the same direction, connector does not need to be rotated during termination.

#### UL Standard Material

UL94V-0 rated insulator materials.

### SPECIFICATIONS

Voltage rating (Max.)	250V AC(r.m.s),350V DC		
Current rating (Max.)	Pin contact dia.	1.0mm	1.6mm
	Current (Max.)	5A	10A
Applicable Cable	Conductive dia	1.0mm	1.5mm
	Conductive cross section	0.5mm <sup>2</sup>	1.25mm <sup>2</sup>
Operating temperature	25 · 85 degrees C		
Insulation resistance	1000Mohm min. at 500V DC		
Dielectric withstanding voltage	1000V AC(r.m.s)at sea level		
Contact resistance	5 mohm max. at 1A		
Vibration	10 55Hz. Amplitude:1.5mm(.059)		
Shock	Acceleration 50G		
Durability	500 cycles		
Humidity (Steady state)	40 deg C,90 to 95%, 96 hrs		
Temperature cycle	-40 ~ +100 deg. C, 5 cycles		
Salt spray	5%, 35 deg. C, 48 hrs.		

### MATERIAL / FINISH

Insert ..... PBT resin (UL94V-0) / Blue

Contact ..... Copper alloy / Silver plating (standard). Gold plating (custom)

Shell ..... Zinc alloy / Olive drab chromate finish

Cable clamp ..... Aluminum alloy / Olive drab chromate finish

Bushing ..... Chloroprene synthetic rubber / Black

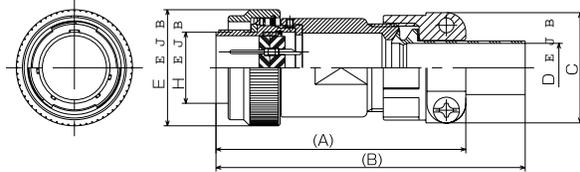
Cap ..... Chloroprene synthetic rubber / Black or Metal / Olive drab chromate finish

# WEB Series



## ■ Styles / Dimensions

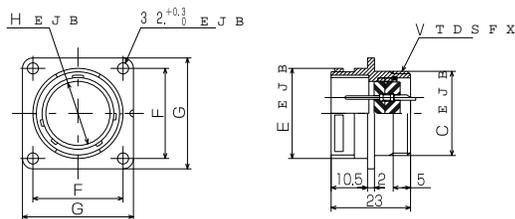
### ●WEBSP (Straight plug)



unit : mm

Shell size	A	B	C±0.5	DMAX.	E±1	H <sup>+0</sup> <sub>-0.3</sub>	J±1
13	73	90	27.2	—	25.5	12.7	19.0
16	73	90	29.5	10.5	29.5	16.3	22.2
21	73	90	31.8	14	33.5	20.5	26.7
25	73	90	37.0	17	39.4	24.0	30.0

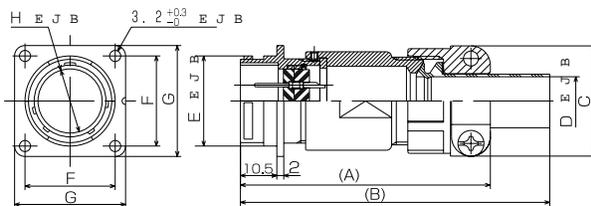
### ●WEBR (Box mounting receptacle)



unit : mm

Shell size	C±0.5	E±0.3	F±0.2	G±0.5	H <sup>+0.3</sup> <sub>-0</sub>	V
13	16	18	20	26	12.9	M16
16	20	22	23	29	16.5	M20
21	24	26	26	32	20.7	M24
25	28	30	29	35	24.2	M28

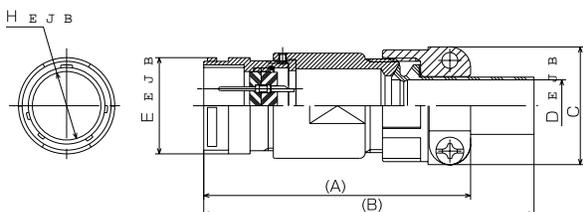
### ●WEBWR (Wall mounting Receptacle)



unit : mm

Shell size	A	B	C±0.5	DMAX.	E±0.3	F±0.5	G±0.5	H <sup>+0.3</sup> <sub>-0</sub>	J±1
13	73	90	27.2	—	18	20	26	12.9	19.0
16	73	90	24.5	10.5	22	23	29	16.5	22.2
21	73	90	31.8	14	26	26	32	20.7	26.7
25	73	90	37.0	17	30	29	35	24.2	30.0

### ●WEBWR (Cable connecting Receptacle)



unit : mm

Shell size	A	B	C±0.5	D±0.3	E±0.3	H <sup>+0.3</sup> <sub>-0</sub>	J±1
13	73	90	27.2	—	18	12.9	19.0
16	73	90	29.5	10.5	22	16.5	22.2
21	73	90	31.8	14	26	20.7	26.7
25	73	90	37.0	17	30	24.2	30.0

## ■ Insert Arrangements (Front view of male insert)

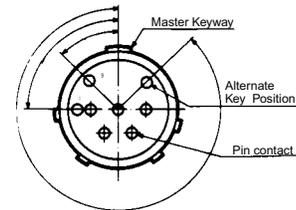
No. of Contact	3	4	5	7		10		
Shell Size	13	21	13	16	21	16	21	
Contact Arrangements								
Insert No.	1303	2104	1305	1607	2107	1610	2110	
No. of Contact	19		16		24		28	32
Shell Size	21		25		25		25	25
Contact Arrangements								
Insert No.	2119	2116	2516	2524	2528	2532		

○----- 1.0mm dia. pin contact

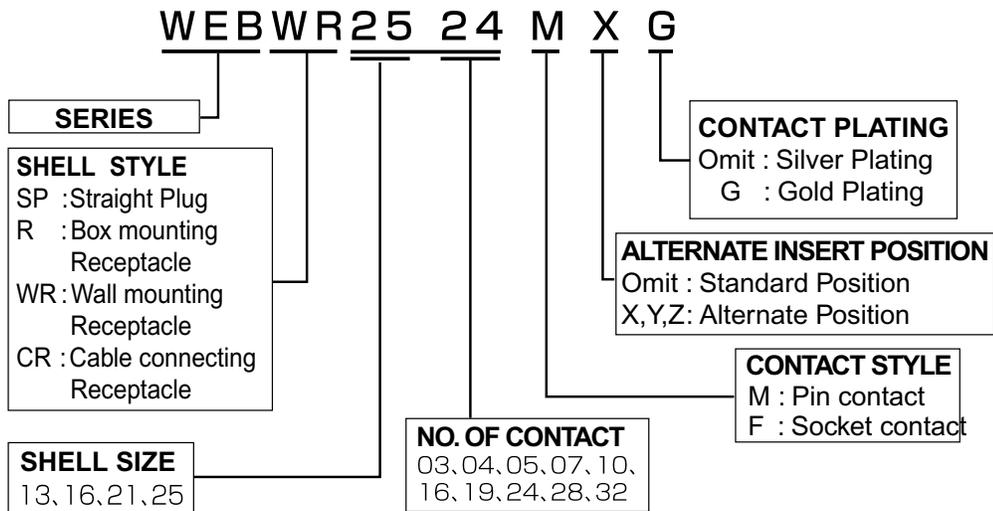
●----- 1.6mm dia. pin contact

## ■ Alternate Insert Positions

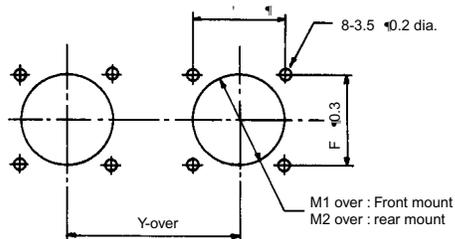
Shell Size	No. of Contact	Alternate angle		
		X	Y	Z
13	3	30° ±30'	60° ±30'	180° ±30'
	5	45° ±30'	90° ±30'	315° ±30'
16	7	30° ±30'	135° ±30'	—
	10	45° ±30'	90° ±30'	315° ±30'
21	4	30° ±30'	135° ±30'	—
	7	30° ±30'	135° ±30'	—
	10	45° ±30'	90° ±30'	315° ±30'
	16	45° ±30'	90° ±30'	315° ±30'
	19	45° ±30'	90° ±30'	315° ±30'
25	16	45° ±30'	90° ±30'	315° ±30'
	24	45° ±30'	90° ±30'	315° ±30'
	28	45° ±30'	90° ±30'	315° ±30'
	32	45° ±30'	90° ±30'	315° ±30'



## Ordering Information



## Panel Cutout (for WEBR.WEBWR)



size unit : mm

SHELL SIZE	MOUNTING HOLE POSITION	FRONT MOUNTING HOLES Dia.	REAR MOUNTING HOLES Dia.	TWIN MOUNTING HOLE SPACE
	F ± 0.2	M <sub>1</sub> / Min.	M <sub>2</sub> / Min.	Y / Min.
13	20	17	19	42
16	23	21	23	46
21	26	25	27	50
25	29	29	31	54

## PROTECTIVE CAPS

### ORDERING INFORMATION

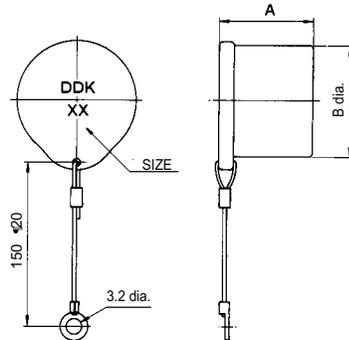
EB PC 25 RA

**CAP STYLE**  
 PC : Plug Cap  
 RC : Receptacle Cap

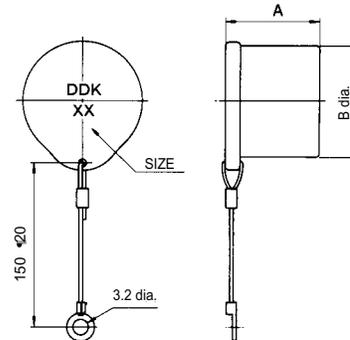
OMIT : Metal  
 R A : Rubber

**SHELL SIZE**  
 13, 16, 21, 25

~EBPCXXRA (Plug Cap)



~EBRCXXRA (Receptacle Cap)



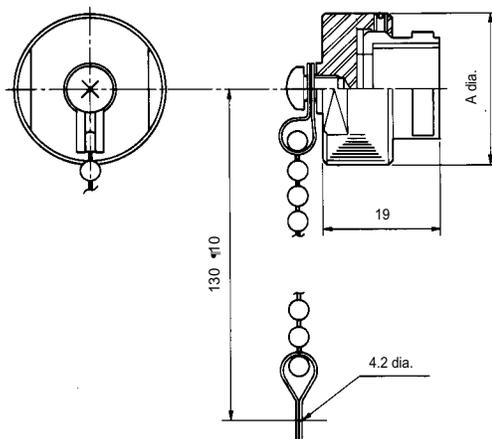
unit : mm

SHELL SIZE	A±0.5	φB±0.5
13	26.5	31.6
16	26.5	35.6
21	26.5	39.6
25	26.5	43.5

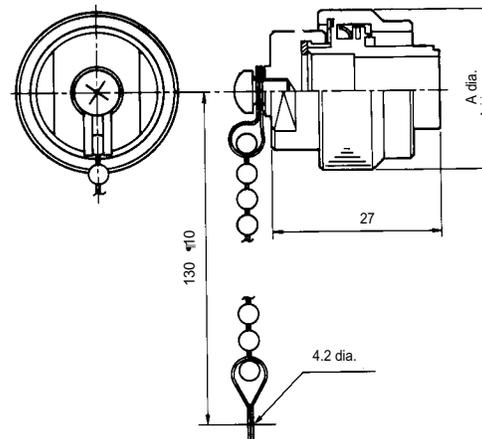
unit : mm

SHELL SIZE	A±0.5	φB±0.5
13	9.5	22.0
16	9.5	26.0
21	9.5	30.0
25	9.5	34.0

~EBPCXX (Plug Cap)



~EBRCXX (Receptacle Cap)



SHELL SIZE	φA±0.5
EBPC13	24.4
" 16	28.4
" 21	32.4
EBPC25	36.4

SHELL SIZE	φA±0.5
EBRC13	25.5
" 16	29.5
" 21	33.5
EBRC25	37.4