

# U SERIES

(OUTDOOR KEYED)



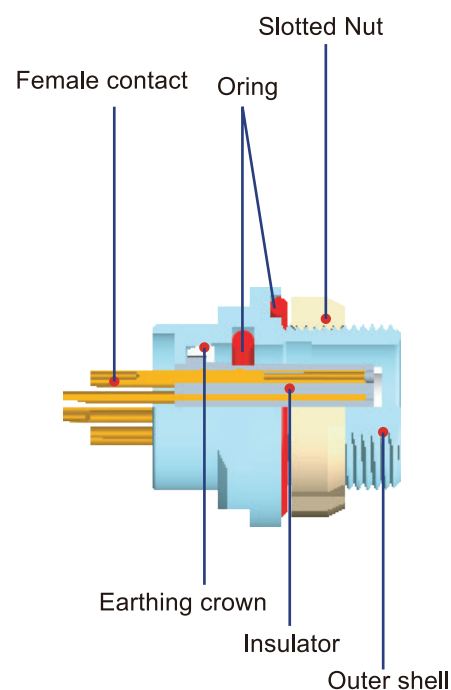
## MAIN FEATURES:

- 1.Security of the push-pull self-latching system
- 2.Multipole types 2 to 13 contacts
3. IP rate: IP68
4. High Packing density for space saving
5. Solder or PCB contacts (straight or elbow)
6. 360° screening for full EMC shielding
7. Robust mechanical keying system
8. Easy handling and blind mating

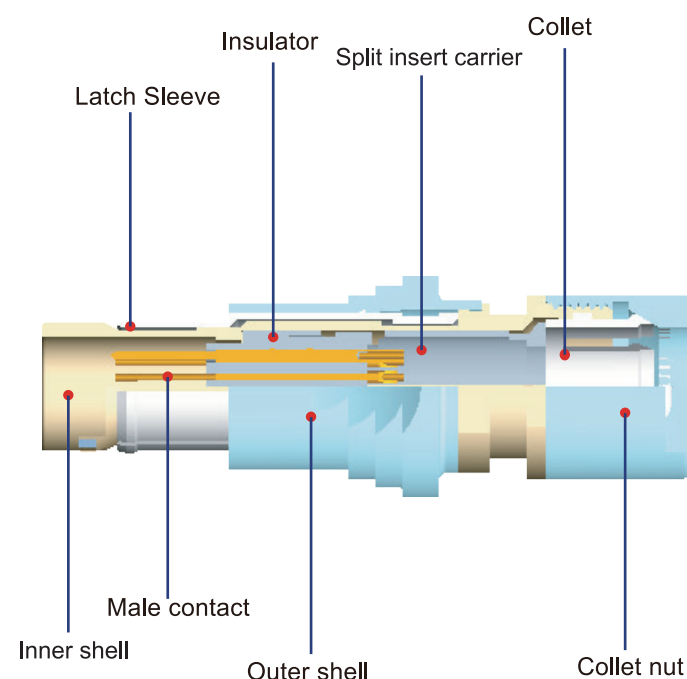
## PART SECTION SHOWING INTERNAL COMPONENTS

### U series

#### Fixed socket



#### Straight plug



## Part Numbering System

1.Series: (Page 109)

2.Housing model: (Page 109)

3.Alignment key: (Page 110)

4.Insert configuration: (Page 111)

5.Housing material  
K=Black chrome plated brass

6.Insulator material  
L=PPS T=PTFE

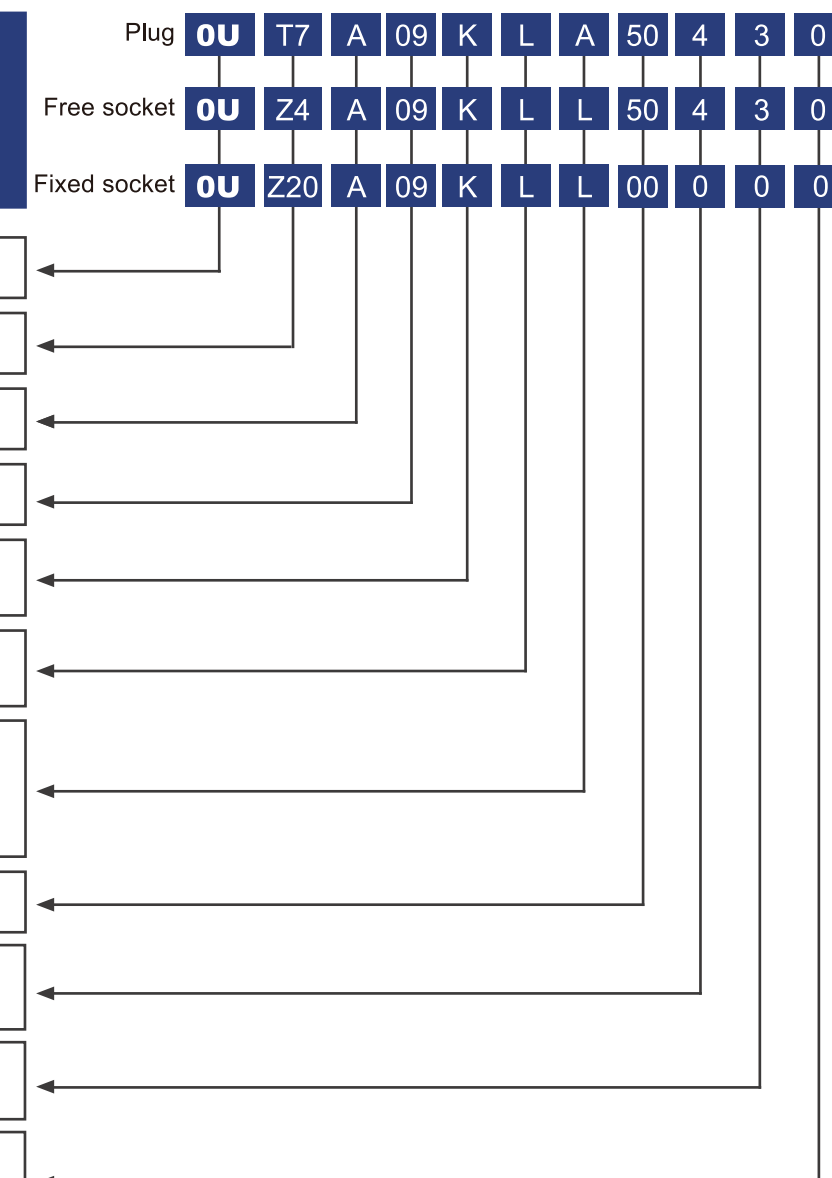
7.Contact type  
A=Solder male L=Solder female  
N=Print female V=Print female 90°  
W=Print male 90° D=Print male

8.Cable OD: (Page 112)

9.Outshell patterns  
4=Circle Pattern

10.Collet Nut Type  
3=Flat (without bend relief)

11.Earthing Tag  
0=Without Earthing tag  
1=With Earthing tag



## PART NUMBER EXAMPLE:

### Straight plug with cable collet:

OUT7A09KLA0430=0U series straight plug, key(A), cable collet, multipole type with 9 contacts, black chrome plated brass out shell, PPS insulator, solder contacts,collet for 5.0mm diameter cable, circle outshell patterns, flat collet nut, without earthing tag.

### Free Socket:

0UZ4A09KLL50430=0U series free socket, key(A), cable collet, multipole type with 9 contacts, black plated brass out shell, PPS insulator, solder female contacts,collet for 5.0mm diameter cable, circle outshell pattern, flat collet nut,without earthing tag.

### Fixed socket:

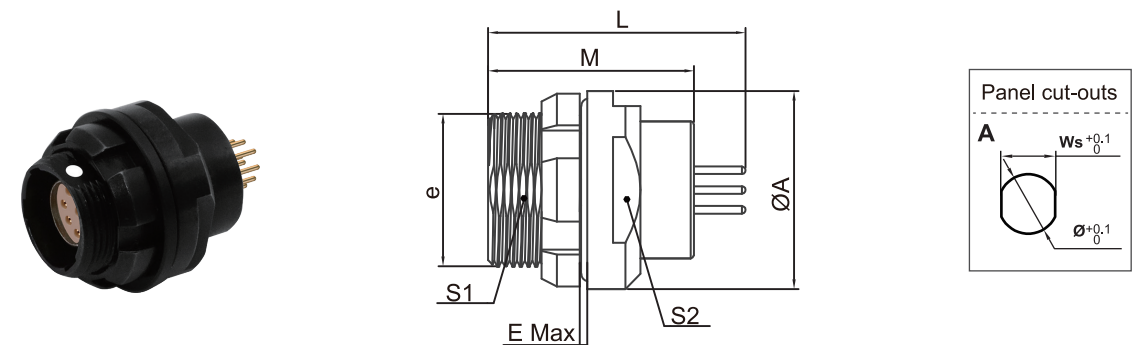
0UZ20A09KLL00000=0U series fixed socket, key(A), nut fixing, multipole type with 9 contacts,black chrome plated brass out shell, PPS insulator, solder female contacts,without earthing tag.

## TECHNICAL CHARACTERISTICS

| Characteristics         | Parameter                    |
|-------------------------|------------------------------|
| Locking Type            | push pull self-latching type |
| Working Temperature     | -55°C~ +250°C                |
| Maximum Humidity        | up to 95% at 60°/140°F       |
| Shielding Efficiency    | 75dB(10MHz) 40dB(1GHz)       |
| Resistance to Vibration | 15g[10Hz~2000Hz]             |

| Characteristics           | Parameter    |
|---------------------------|--------------|
| Salt spray corrosion test | 96hr         |
| Shock resistance          | 100g,6ms     |
| Endurance                 | 10000 cycles |
| Protection index(mated)   | IP68         |

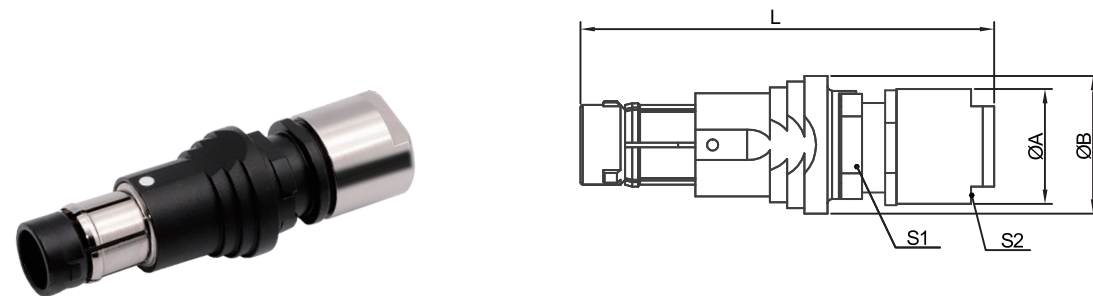
## Z20 SOCKET FIXED SOCKET, VACUUM-TIGHT, BACK PANEL MOUNT



| Reference |       | Dimensions(mm) |      |      |     |     |      |        | Panel cut-outs |     |      |
|-----------|-------|----------------|------|------|-----|-----|------|--------|----------------|-----|------|
| Series    | Model | L              | A    | M    | E   | S1  | S2   | e      | Ws             | Ø   | Type |
| 00U       | Z20   | 15.0           | 10.0 | 12.5 | 2.3 | 6.3 | 8.0  | M7*0.5 | 6.4            | 7.1 | A    |
| 0U        | Z20   | 18.4           | 13.0 | 13.5 | 3.6 | 7.9 | 11.0 | M9*0.5 | 8.0            | 9.1 | A    |

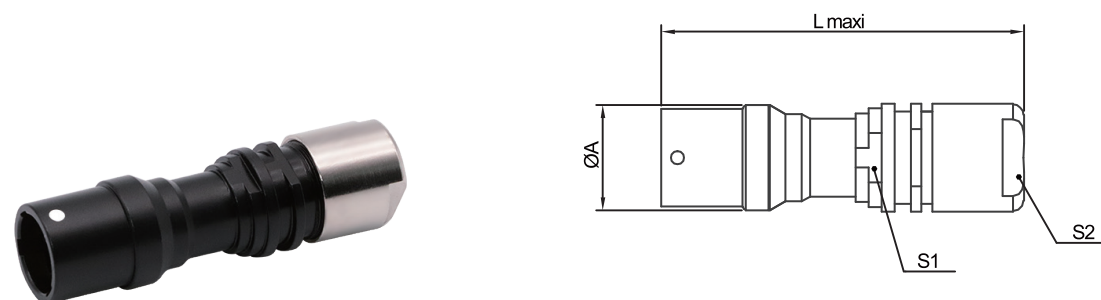
## Housing Models

### T7 PLUG STRAIGHT PLUG, WITH MULTIPOLE KEY, CABLE COLLET



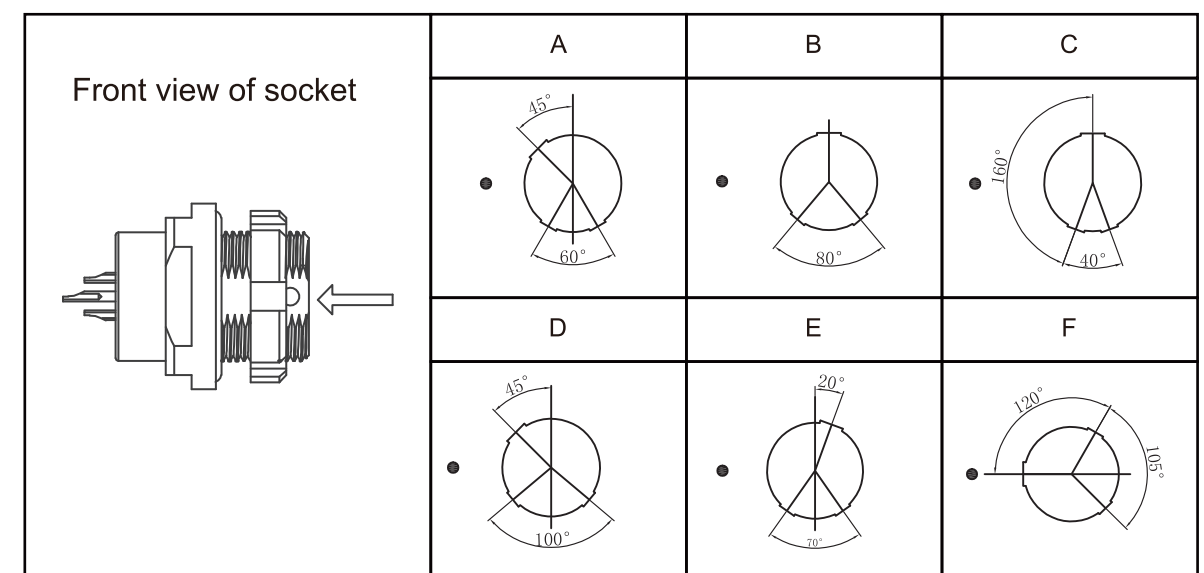
| Reference |       | Dimensions(mm) |      |      |     |     |
|-----------|-------|----------------|------|------|-----|-----|
| Series    | Model | L              | A    | B    | S1  | S2  |
| 00U       | T7    | 31.0           | 10.0 | 10.5 | 6.5 | 7.0 |
| 0U        | T7    | 36.0           | 10.0 | 12.0 | 8.0 | 7.0 |

### Z4 SOCKET FREE SOCKET, CABLE MOUNT, CABLE COLLET

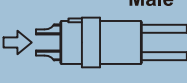
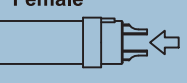


| Reference |       | Dimensions(mm) |     |    |    |
|-----------|-------|----------------|-----|----|----|
| Series    | Model | L              | A   | S1 | S2 |
| 0U        | Z4    | 33.6           | 9.8 | 8  | 7  |

## ALIGNMENT KEY:



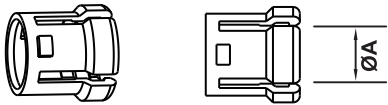
INSERT CONFIGURATION (Multipole)

| Series | Code | Solder contacts                                                                     |                                                                                     | Contact ø(mm) | Resistance (mΩ) | Rated current (A) | Test voltage (V) | Working voltage (V) |
|--------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|-----------------|-------------------|------------------|---------------------|
|        |      |    |    |               |                 |                   |                  |                     |
| 00U    | 02   |    |    | 0.5           | 10              | 5                 | 1000             | 330                 |
|        | 03   |    |    | 0.5           | 10              | 3                 | 800              | 260                 |
|        | 04   |    |    | 0.5           | 10              | 2                 | 800              | 260                 |
|        | 05   |    |    | 0.35          | 10              | 1.7               | 700              | 200                 |
| 0U     | 02   |    |    | 0.9           | 6               | 10                | 1000             | 500                 |
|        | 03   |   |   | 0.9           | 6               | 8                 | 875              | 400                 |
|        | 04   |  |  | 0.7           | 7.5             | 7                 | 875              | 300                 |
|        | 05   |  |  | 0.7           | 7.5             | 6.5               | 750              | 300                 |
|        | 06   |  |  | 0.5           | 10              | 2.5               | 750              | 300                 |
|        | 07   |  |  | 0.5           | 10              | 2.5               | 750              | 300                 |
|        | 09   |  |  | 0.5           | 10              | 2                 | 600              | 200                 |
|        | 13   |  |  | 0.4           | 10              | 2                 | 600              | 200                 |

CACULATION METHOD: WORKING VOLTAGE= TEST VOLTAGE/3

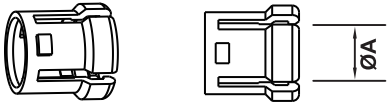
COLLET (C,U SERIES) (The material of collet is nickel plated brass)

FOR C SERIES



| 编号 | 线夹ØA (mm) | 适配电缆直径Ø(mm) |     | 系列 |    |    |
|----|-----------|-------------|-----|----|----|----|
|    |           | 最小值         | 最大值 | 0C | 1C | 3C |
| 32 | 3.2       | 2.7         | 3.2 | ●  | ●  |    |
| 42 | 4.2       | 3.7         | 4.2 |    | ●  |    |
| 45 | 4.5       | 4.0         | 4.5 | ●  |    |    |
| 52 | 5.2       | 4.7         | 5.2 | ●  | ●  |    |
| 56 | 5.6       | 5.1         | 5.6 | ●  |    |    |
| 62 | 6.2       | 5.7         | 6.2 |    | ●  |    |
| 65 | 6.5       | 6.0         | 6.5 | ●  |    | ●  |
| 73 | 7.3       | 6.8         | 7.3 |    |    | ●  |

FOR U SERIES



| 编号 | 线夹ØA (mm) | 适配电缆直径Ø(mm) |     | 系列  |    |
|----|-----------|-------------|-----|-----|----|
|    |           | 最小值         | 最大值 | 00U | 0U |
| 32 | 3.2       | 2.7         | 3.2 | ●   |    |
| 45 | 4.5       | 4.0         | 4.5 | ●   | ●  |
| 50 | 5.0       | 4.6         | 5.0 | ●   | ●  |
| 55 | 5.5       | 5.0         | 5.5 | ●   | ●  |
| 60 | 6.0       | 5.6         | 6.0 | ●   | ●  |