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Product Catalogue



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# ZH127 SERIES

## PRODUCT OVERVIEW



RENHOTEC  
GROUP LIMITED



### RENHOTEC GROUP LIMITED

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ZH127 series

series bayonet connectors mainly adopt Russian connector technology. It is engineered for reliable performance in both DC and AC circuits, supporting frequencies up to 3 MHz and voltages up to 700 V (amplitude). It consists of plugs and sockets, with multi-level key positions for installation. The coupling mode of the connector is bayonet type. The Socket without tail attachment and the Plug with metal tail attachment. This type of connectors are widely used in low-frequency electronic systems, including a large number of electrical equipment. ZH127 are interchangeable & intermateable with connectors of OHS-BC, Ohs-BC, ONTs-BS, ONTs-BS, SNTs127, SNC127.



Product parameters

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Product Name          | ZH127 Serial connector                                     |
| Shell Size            | 10/12/14/18/22/27                                          |
| Pin number            | 1/2/4/6/7/10/14/19/30/32/50/76/102                         |
| Contact diameter      | Ø 0.6 mm; Ø 1.0 mm; Ø 1.5 mm; Ø 2.0 mm; Ø 3.5 mm; Ø 5.5 mm |
| Connector type        | Cable plug /panel socket                                   |
| Orentation            | Straight/Angled                                            |
| Connection method     | Bayonet Connection                                         |
| Shell Material        | Aluminum alloy                                             |
| Contact Material      | Gold/silver plating                                        |
| Termination           | Solder                                                     |
| Insulater             | Bakelite                                                   |
| Mating Cycles         | 500 cycles                                                 |
| Working Voltage       | 250V                                                       |
| Working Current       | 1.5A-3A                                                    |
| Operating temperature | -60°C~+105°C                                               |
| Insulation resistance | ≥5000MΩ                                                    |
| Contact resistance    | ≤5mΩ                                                       |
| Vibration             | 1-5000Hz 20g                                               |

Electrical

| Shell number | Number of contacts | Operating current per contact (A) | Operating Voltage(V) | PC tail contact layouts |
|--------------|--------------------|-----------------------------------|----------------------|-------------------------|
| 10           | 10                 | 1.8                               | 150                  | Yes                     |
| 10           | 4                  | 3.7                               | 250                  | Yes                     |
| 12           | 19                 | 1.7                               | 150                  | Yes                     |
| 12           | 7                  | 3.1                               | 250                  | Yes                     |
| 12           | 8                  | 0.5/10.0                          | 150                  | No                      |
| 14           | 30                 | 1.4                               | 250                  | Yes                     |
| 14           | 10                 | 3.0                               | 250                  | Yes                     |
| 18           | 50                 | 1.0                               | 150                  | Yes                     |
| 18           | 19                 | 2.1                               | 250                  | Yes                     |
| 18           | 1                  | 65.0                              | 700                  | No                      |
| 22           | 76                 | 0.8                               | 150                  | Yes                     |
| 22           | 32                 | 1.8                               | 250                  | Yes                     |
| 22           | 16                 | 2.1/18.0                          | 250                  | No                      |
| 27           | 102                | 0.7                               | 150                  | Yes                     |
| 27           | 50                 | 1.5                               | 250                  | Yes                     |
| 27           | 8                  | 1.5/3.5                           | 40                   | No                      |

# P/N RULES



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| CHЦ127                                                                                                                                              | 4 | /10 | B(P) | Π(1,2) | 1(2) | 7 | 1 | B |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|------|--------|------|---|---|---|
| size                                                                                                                                                |   |     |      |        |      |   |   |   |
| Contacts:1/2/4/6/7/10/14/19/30/<br>32/50/76/102                                                                                                     |   |     |      |        |      |   |   |   |
| Shell Size: 10/12/14/18/22/27                                                                                                                       |   |     |      |        |      |   |   |   |
| Contacts gender: B(Male)P(Female)                                                                                                                   |   |     |      |        |      |   |   |   |
| Connection Type (Socket Only)<br>1: Solder 2: PCB                                                                                                   |   |     |      |        |      |   |   |   |
| 1: Gold Plating 2: Silver Plating                                                                                                                   |   |     |      |        |      |   |   |   |
| 5-Plug with angled tail attachment<br>6-Plug with straight tail attachment<br>7-Four-hole flange socket<br>8-Plug with short sleeve tail attachment |   |     |      |        |      |   |   |   |
| Positioning Direction: 1-20                                                                                                                         |   |     |      |        |      |   |   |   |
| All-climate Version                                                                                                                                 |   |     |      |        |      |   |   |   |

# How To Order



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| ZH127-                                                                                                                                              | 4 | /10 | B(P) | (1,2) | 1(2) | Z | 1 | B |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|------|-------|------|---|---|---|
| size                                                                                                                                                |   |     |      |       |      |   |   |   |
| Contacts:1/2/4/6/7/10/14/19/30/<br>32/50/76/102                                                                                                     |   |     |      |       |      |   |   |   |
| Shell Size: 10/12/14/18/22/27                                                                                                                       |   |     |      |       |      |   |   |   |
| Contacts gender: B(Male)P(Female)                                                                                                                   |   |     |      |       |      |   |   |   |
| Connection Type (Socket Only)<br>1: Solder 2: PCB                                                                                                   |   |     |      |       |      |   |   |   |
| 1: Gold Plating 2: Silver Plating                                                                                                                   |   |     |      |       |      |   |   |   |
| W-Plug with angled tail attachment<br>Q-Plug with straight tail attachment<br>Z-Four-hole flange socket<br>Y-Plug with short sleeve tail attachment |   |     |      |       |      |   |   |   |
| Positioning Direction: 1-20                                                                                                                         |   |     |      |       |      |   |   |   |
| All-climate Version                                                                                                                                 |   |     |      |       |      |   |   |   |

PRODUCT PART NUMBER



CH127-4/10B127-1-B



ZH127-4/10P12Q-1-B



ZH127-8/12B12Z-1-B



ZH127-8/12P12Q-1-B



ZH127-10/10B12Z-1-B



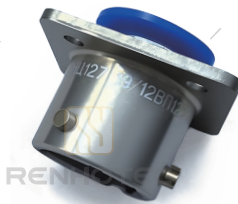
ZH127-10/10P12Q-1-B



ZH127-10/14B12Z-1-B



ZH127-10/10B12Z-1-B

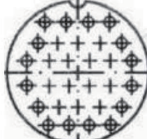
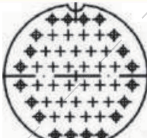
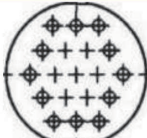
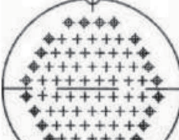
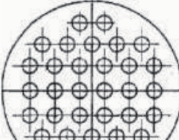
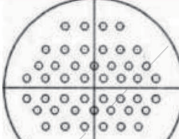
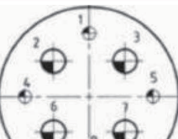


ZH127-10/10P12Q-1-B



ZH127-10/14B12Z-1-B

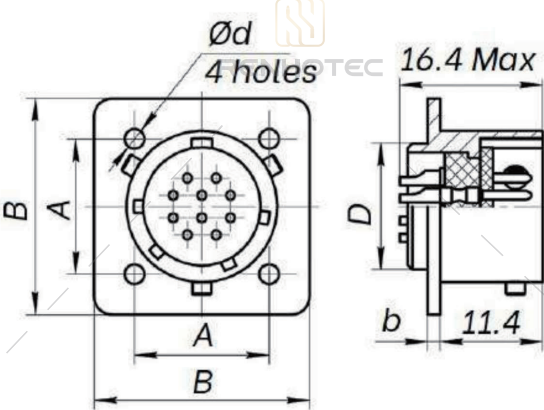
CONTACT LAYOUTS

| Shell Size | Contact Layouts                                                                                                |                                                                                                               |                                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 10         | 10/10                                                                                                          |                                                                                                               | 4/10                                                                                                                                 |
|            | <br>10 contacts Ø 0.6 mm    |                                                                                                               | <br>4 contacts Ø 1.0 mm                           |
| 12         | 19/12                                                                                                          | 7/12                                                                                                          | 8/12                                                                                                                                 |
|            | <br>19 contacts Ø 0.6 mm    | <br>7 contacts Ø 0.6 mm    | <br>6 contacts Ø 0.6 mm<br>2 contacts Ø 2.0 mm    |
| 14         | 30/14                                                                                                          |                                                                                                               | 10/14                                                                                                                                |
|            | <br>30 contacts Ø 0.6 mm   |                                                                                                               | <br>10 contacts Ø 1.0 mm                         |
| 18         | 50/18                                                                                                          | 19/18                                                                                                         | 1/18                                                                                                                                 |
|            | <br>50 contacts Ø 0.6 mm  | <br>19 contacts Ø 1.0 mm | <br>1 contacts Ø 5,5 mm                         |
| 22         | 76/22                                                                                                          | 32/22                                                                                                         | 16/22                                                                                                                                |
|            | <br>76 contacts Ø 0.6 mm  | <br>32 contacts Ø 1.0 mm | <br>14 contacts Ø 0.6 mm<br>2 contacts Ø 3.5 mm |
| 27         | 102/27                                                                                                         | 50/27                                                                                                         | 8/27                                                                                                                                 |
|            | <br>102 contacts Ø 0.6 mm | <br>50 contacts Ø 1.0 mm | <br>4 contacts Ø 1.5 mm<br>4 contacts Ø 3.5 mm  |



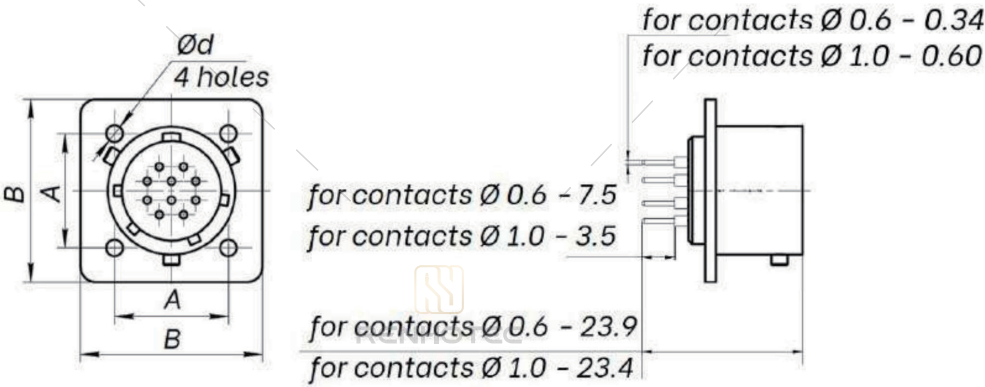
DIMENSIONS

Square flange receptacles, version 7,with Solder contacts



| Shell size | ØD | A    | B  | Ø d | b   |
|------------|----|------|----|-----|-----|
| 10         | 10 | 11,8 | 20 | 2,2 | 1,4 |
| 12         | 12 | 13,2 | 21 | 2,2 | 1,4 |
| 14         | 14 | 15   | 24 | 2,2 | 1,4 |
| 18         | 18 | 18   | 27 | 2,2 | 1,4 |
| 22         | 22 | 21,5 | 31 | 2,7 | 1,8 |
| 27         | 27 | 26   | 36 | 3,2 | 2   |

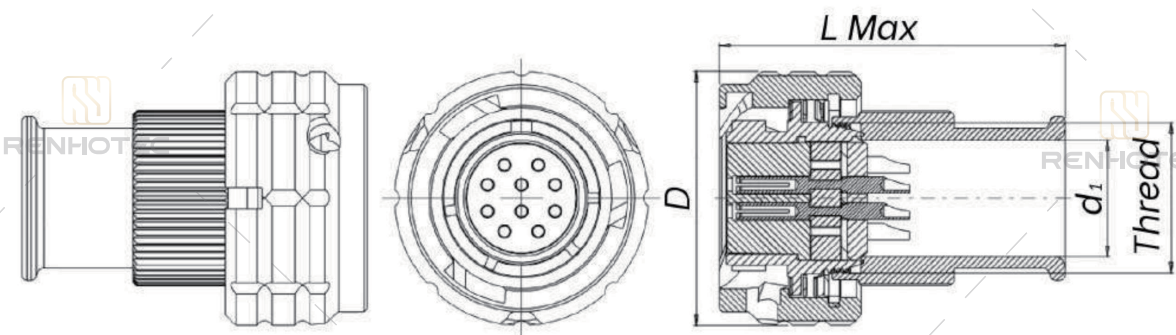
Square flange receptacles, version 7, with PC tail contacts



| Shell size | A    | B  | Ø d |
|------------|------|----|-----|
| 10         | 11,8 | 20 | 2,2 |
| 12         | 13,2 | 21 | 2,2 |
| 14         | 15   | 24 | 2,2 |
| 18         | 18   | 27 | 2,2 |
| 22         | 21,5 | 31 | 2,7 |
| 27         | 26   | 36 | 3,2 |

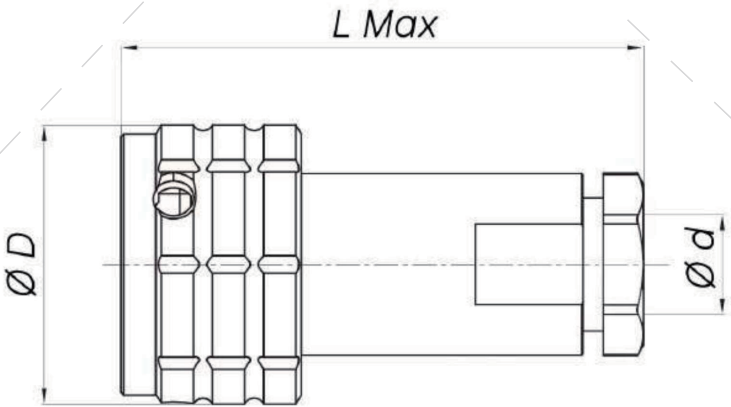
CONTACT LAYOUTS

Plugs with Shrink Boot Adapter. version 8



| Shell size | Thread d | Ø d <sub>1</sub> | Ø D | L Max |
|------------|----------|------------------|-----|-------|
| 10         | M10x0,75 | 7                | 20  | 32.3  |
| 12         | M12x0,75 | 9                | 21  | 32.3  |
| 14         | M14x0,75 | 11               | 24  | 32.3  |
| 18         | M18x0,75 | 13               | 27  | 41    |
| 22         | M22x0,75 | 15               | 31  | 42    |
| 27         | M27x0,75 | 20               | 36  | 43    |

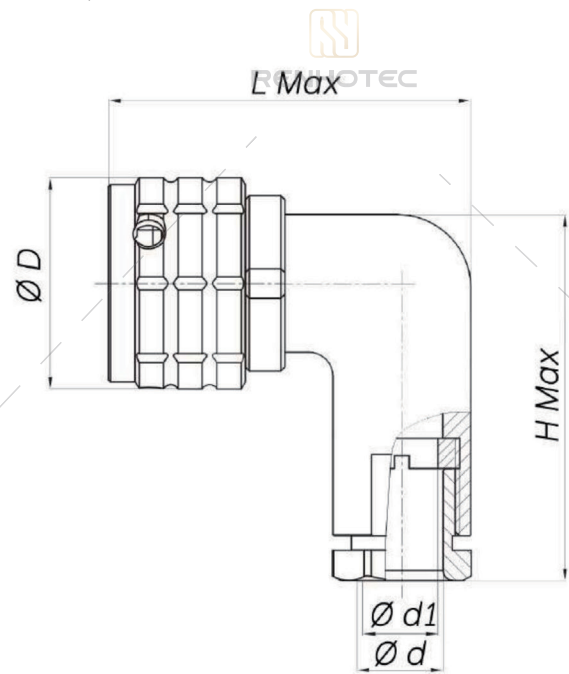
Plugs with straight Backshell, version 6



| Shell size | Ø D | Ø d | L    |
|------------|-----|-----|------|
| 10         | 20  | 6   | 26.5 |
| 12         | 21  | 8   | 28.5 |
| 14         | 24  | 9   | 31.5 |
| 18         | 27  | 11  | 34.5 |
| 22         | 31  | 13  | 35.5 |
| 27         | 36  | 16  | 39.5 |

CONTACT LAYOUTS

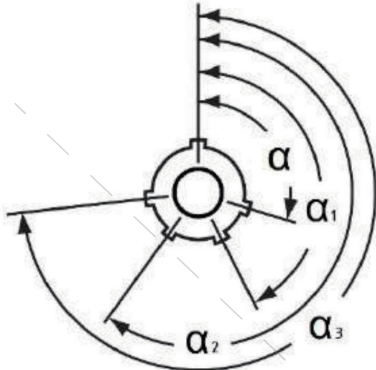
Plugs with elbow Backshell, version 5

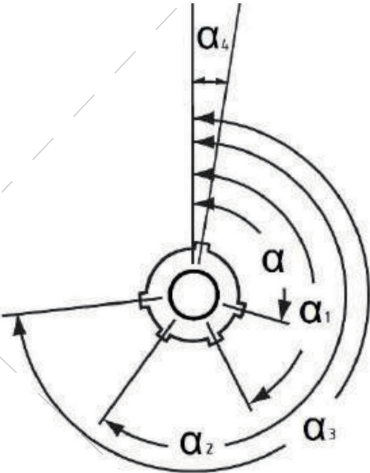


| Shell size | ØD | Ød | Ø d <sub>1</sub> | Ø d | b  |
|------------|----|----|------------------|-----|----|
| 10         | 20 | 6  | 5.5              | 32  | 23 |
| 12         | 21 | 8  | 7.5              | 34  | 25 |
| 14         | 24 | 9  | 8.5              | 36  | 27 |
| 18         | 27 | 11 | 10.0             | 40  | 30 |
| 22         | 31 | 13 | 12.0             | 44  | 33 |
| 27         | 36 | 16 | 15.0             | 50  | 36 |



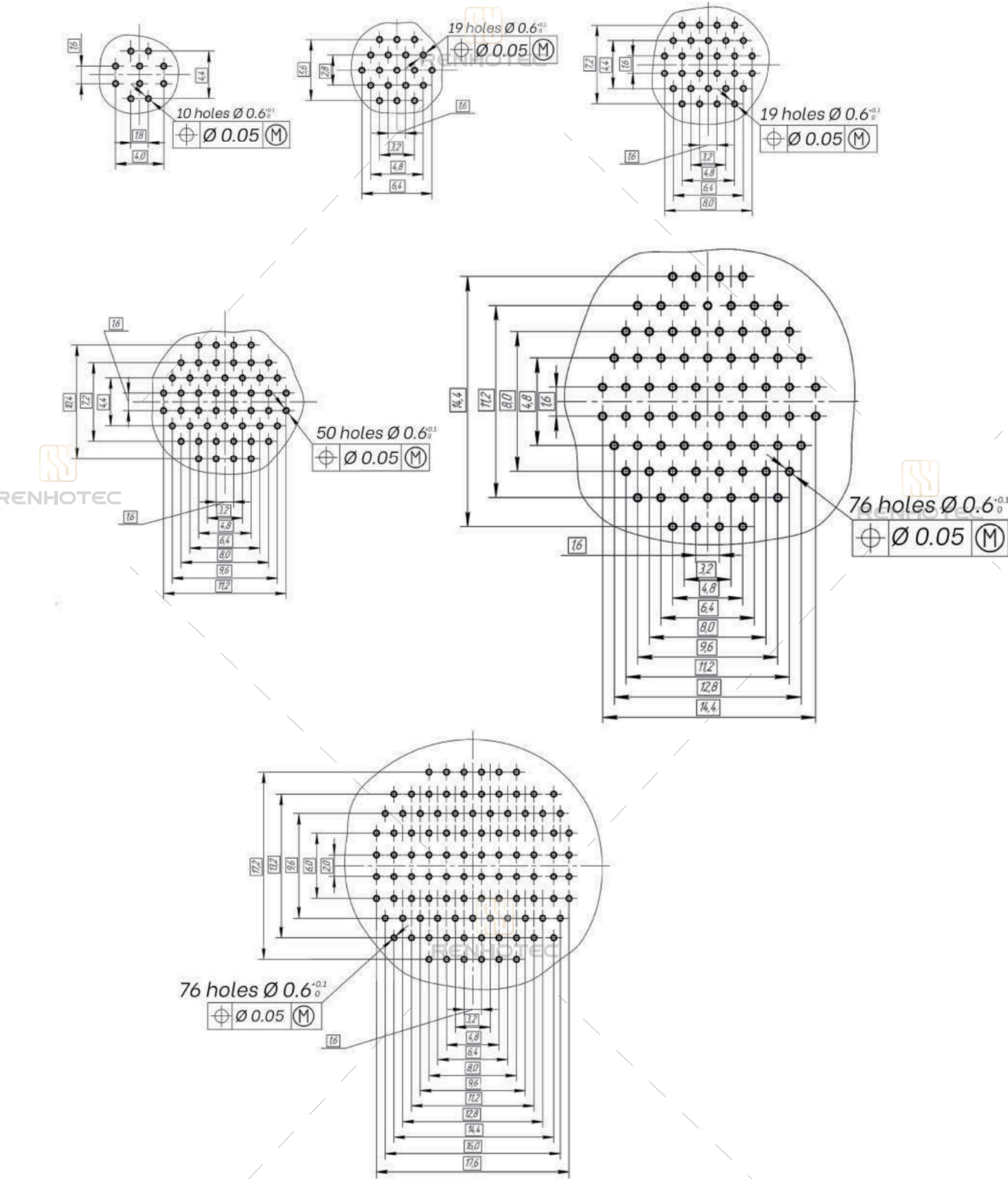
ORIENTATIONS

| Shell Size  | Viewed from front face of plug                                                      | orientation angle codes | Angle in degrees |            |            |            |
|-------------|-------------------------------------------------------------------------------------|-------------------------|------------------|------------|------------|------------|
|             |                                                                                     |                         | $\alpha$         | $\alpha_1$ | $\alpha_2$ | $\alpha_3$ |
| 10,12       |  | 1                       | 105°             | 140°       | 215°       | 260°       |
| 14,18,22,27 |                                                                                     | 1                       | 90°              | 135°       | 205°       | 260°       |
|             |                                                                                     | 2                       | 105°             | 140°       | 215°       | 260°       |
|             |                                                                                     | 3                       | 115°             | 145°       | 210°       | 250°       |

| Shell Size | Viewed from front face of plug                                                        | orientation angle codes | Angle in degrees |            |            |            |            |      |
|------------|---------------------------------------------------------------------------------------|-------------------------|------------------|------------|------------|------------|------------|------|
|            |                                                                                       |                         | $\alpha$         | $\alpha_1$ | $\alpha_2$ | $\alpha_3$ | $\alpha_4$ |      |
| 22,27      |  | 4                       | 90°              | 135°       | 205°       | 260°       | 11°        |      |
|            |                                                                                       | 5                       |                  |            |            |            | 338°       |      |
|            |                                                                                       | 6                       |                  |            |            |            | 349°       |      |
|            |                                                                                       | 7                       | 105°             | 140°       | 215°       | 260°       | 11°        |      |
|            |                                                                                       | 8                       |                  |            |            |            | 22°        |      |
|            |                                                                                       | 9                       |                  |            |            |            | 349°       |      |
|            |                                                                                       | 10                      | 115°             | 145°       | 210°       | 250°       | 11°        |      |
|            |                                                                                       | 11                      |                  |            |            |            | 338°       |      |
|            |                                                                                       | 12                      |                  |            |            |            | 349°       |      |
|            |                                                                                       | 13                      |                  |            |            |            | 22°        |      |
|            |                                                                                       | 27                      | 14               | 105°       | 140°       | 215°       | 260°       | 329° |
|            |                                                                                       |                         | 15               | 97°        | 140°       | 205°       | 255°       | 11°  |
| 16         | 22°                                                                                   |                         |                  |            |            |            |            |      |
| 17         | 329°                                                                                  |                         |                  |            |            |            |            |      |
| 18         | 338°                                                                                  |                         |                  |            |            |            |            |      |
| 19         | 349°                                                                                  |                         |                  |            |            |            |            |      |
| 20         | 360°                                                                                  |                         |                  |            |            |            |            |      |



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