

## 61 SL / 63 SL - QUICK WIRING AND MOUNTING PLUGS AND SOCKETS

## REFERENCE STANDARDS

The IEC 309 SL industrial plugs and sockets meets the dimensional, construction-performance and safety requirements defined by IEC 60309-1 and IEC 60309-2 International Standards assimilated on a European level as EN 60309-1 and EN 60309-2 Standards.

For the purpose of ensuring maximum safety, reliability and quality, GEWISS has specifically designed the terminal as well.

In fact, development of the terminal took into consideration the requirements of the IEC 60998-2-3 International Standards assimilated on a European level as EN 60998-2-3 Standard regarding insulation perforation terminals.

## CLAMP CHARACTERISTICS

The terminal is made from special high-quality copper alloys.

It enables clamping of the flexible type copper wires for a range of nominal sections from 1 to 2,5 mm<sup>2</sup>. The perforating system can cut cable insulated in PVC or rubber.

For its conformation, terminal tightening occurs without the use of special tools. In accordance with regulations, every terminal is marked with the corresponding polarity and can be reused for an unlimited number of times. To disconnect the cable, the slider can be released simply by using a screwdriver.

## MATERIAL CHARACTERISTICS

The parts in insulating material are made of self-extinguishing thermoplastic polymers, with high dimensional stability, resistant to chemical and atmospheric agents. Sockets and plugs are in brass.

The plugs are nickel-plated for better abrasion and corrosion resistance. The socket lid closing springs are in stainless steel.

## ELECTRICAL CHARACTERISTICS

|                                             |                                                             |
|---------------------------------------------|-------------------------------------------------------------|
| Nominal voltage Un:                         | 110 ÷ 500 V                                                 |
| Nominal current In:                         | 16 A                                                        |
| Nominal frequency f:                        | 50/60 Hz                                                    |
| Overtemperature test:                       | carried out according to<br>EN 60998-1 Standard at I = 24 A |
| Breaking capacity:                          | 20A at 1.1 Un                                               |
| Number of possible operations at Un and In: | > 5000 operations                                           |
| Insulation resistance:                      | > 10 MWΩ                                                    |

## MECHANICAL AND PHYSICAL CHARACTERISTICS

|                                                                                    |                                                                                                                                            |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature:                                                             | - 25 - +40 °C                                                                                                                              |
| Terminal connection capacity:                                                      | flexible cables with sections<br>from 1 mm <sup>2</sup> to 2,5 mm <sup>2</sup>                                                             |
| External section of usable cables:                                                 | 2P+ $\frac{\perp}{\perp}$ from 8,1 to 13 mm<br>3P+ $\frac{\perp}{\perp}$ from 8,8 to 14 mm<br>3P+N+ $\frac{\perp}{\perp}$ from 10 to 15 mm |
| Impact resistance according to 50102:                                              | IK 08 (5J)                                                                                                                                 |
| Self-extinguishing according to thermo-pressure with ball: 125 °C (socket or plug) | 80 °C (all other parts)                                                                                                                    |
| Self-extinguishing according to Glow Wire Test:                                    | 850 °C (socket or plug)<br>650 °C (all other parts)                                                                                        |

## BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

| Saline solution | Acids         |                    | Bases              |           | Solvents  |           |           |           | Mineral oil | UV rays   |
|-----------------|---------------|--------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|
|                 | Concentrated  | Diluted            | Concentrated       | Diluted   | Hexane    | Benzol    | Acetone   | Alcohol   |             |           |
| Resistant       | NOT resistant | Limited resistance | Limited resistance | Resistant | Resistant | Resistant | Resistant | Resistant | Resistant   | Resistant |

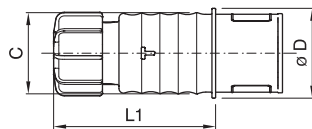
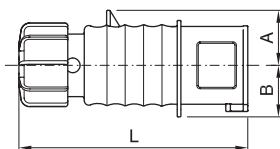
# IEC 309 RANGE

PLUGS AND SOCKETS IEC 309 STANDARDS

**GEWISS**

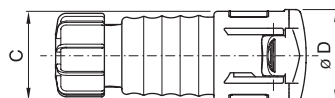
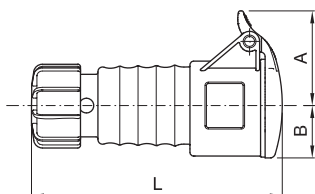
## DIMENSION TABLES

### PROTECTED STRAIGHT PLUGS



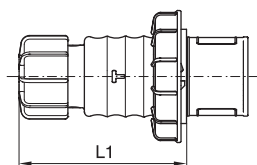
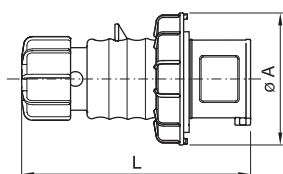
|     | Type                | A  | B  | C  | D  | L   | L1  |
|-----|---------------------|----|----|----|----|-----|-----|
| 16A | 2P+ $\frac{1}{2}$   | 30 | 28 | 45 | 49 | 125 | 89  |
| 16A | 3P+ $\frac{1}{2}$   | 34 | 32 | 80 | 88 | 125 | 89  |
| 16A | 3P+N+ $\frac{1}{2}$ | 37 | 36 | 55 | 62 | 137 | 100 |

### PROTECTED STRAIGHT CONNECTORS



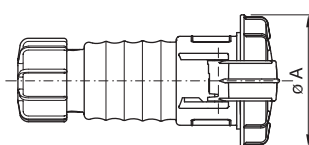
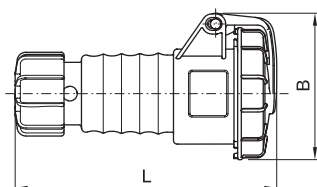
|     | Type                | A  | B  | C  | D  | L   |
|-----|---------------------|----|----|----|----|-----|
| 16A | 2P+ $\frac{1}{2}$   | 52 | 29 | 49 | 51 | 137 |
| 16A | 3P+ $\frac{1}{2}$   | 54 | 32 | 55 | 57 | 137 |
| 16A | 3P+N+ $\frac{1}{2}$ | 58 | 36 | 62 | 66 | 149 |

### WATERTIGHT STRAIGHT PLUGS



|     | Type                | A  | L   | L1  |
|-----|---------------------|----|-----|-----|
| 16A | 2P+ $\frac{1}{2}$   | 72 | 125 | 91  |
| 16A | 3P+ $\frac{1}{2}$   | 80 | 125 | 91  |
| 16A | 3P+N+ $\frac{1}{2}$ | 88 | 137 | 103 |

### WATERTIGHT STRAIGHT CONNECTORS



|     | Type                | A  | B  | L   |
|-----|---------------------|----|----|-----|
| 16A | 2P+ $\frac{1}{2}$   | 72 | 80 | 143 |
| 16A | 3P+ $\frac{1}{2}$   | 80 | 88 | 143 |
| 16A | 3P+N+ $\frac{1}{2}$ | 88 | 96 | 155 |

IEC 309 RANGE

## 60 / 61 / 62 / 63 / 64 - PLUGS, SOCKETS AND MULTIPLE OUTLET SOCKETS IEC 309

A range of removable type trailing and fixed plugs and sockets for industrial use, compliant with dimensional and performance standards unified on an international level (IEC 60309) and assimilated by European Standards (EN 60309) and Italian Standards (CEI 23-12). Equipped with an extra pilot contact (CP) for creating an electric interlock on plug and socket versions with nominal current of 63 and 125A. These supplement the range of 90° fixed plugs and 10° and 90° sockets. Elastic sockets and plugs obtained from bar in solid brass, type Pt. CuZn40Pb2 (Cu 58%, Zn 40%, Pb 2%); anti-loosening terminal with unlosable screws, cable clamp incorporated with anti-abrasion cable glands.

The range of multiple-outlet sockets, adaptors and shunts should be considered an integral part of the electrical system, since they are products suitable only for temporary, trailing installations and connections, and not for permanent applications. Furthermore, the range cannot be used in areas with a fire hazard.

### TECHNICAL DATA AND COMPLIANCE WITH STANDARDS

| Reference Standards: | Nominal voltage Un (V) | Nominal current In (A) | Permissible overload (A) | Total No. operations | Breaking capacity at 1,1 Un (A) | Impact resistance at ambient temperature (IK code) | Insulation resistance (MΩ) | Resistance to abnormal heat and fire     |                                           |
|----------------------|------------------------|------------------------|--------------------------|----------------------|---------------------------------|----------------------------------------------------|----------------------------|------------------------------------------|-------------------------------------------|
|                      |                        |                        |                          |                      |                                 |                                                    |                            | Thermo-pressure with ball (°C)           | Glow Wire Test (°C)                       |
| CEI 23-12/1          | from 110 to 500        | 16                     | 22                       | > 5000               | 20                              | IK 08                                              | > 10                       | 125 (active parts)<br>80 (passive parts) | 850 (active parts)<br>650 (passive parts) |
| CEI 23-12/2          |                        | 32                     | 42                       | > 2000               | 40                              |                                                    |                            |                                          |                                           |
| EN 60309-1/2         |                        | 63                     | –                        | > 2000               | 79                              |                                                    |                            |                                          |                                           |
| IEC 60309-1/2        |                        | 125                    | –                        | > 500                | 156                             |                                                    |                            |                                          |                                           |

### BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

| Agent      | Saline solution | Acids         |                    | Bases              |           | Solvents  |           |           |           | Mineral oil | UV rays   |
|------------|-----------------|---------------|--------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|
|            |                 | Concentrated  | Diluted            | Concentrated       | Diluted   | Hexane    | Benzol    | Acetone   | Alcohol   |             |           |
| Resistance | Resistant       | Not resistant | Limited resistance | Limited resistance | Resistant | Resistant | Resistant | Resistant | Resistant | Resistant   | Resistant |

# IEC 309 RANGE

PLUGS AND SOCKETS IEC 309 STANDARDS

**GEWISS**

## TERMINAL CLAMPING CAPACITY (mm<sup>2</sup>)

| Socket or plug nominal current | flexible cables |     | rigid or stranded cables |     | Possibility of clamping several wires in the same terminal                     |
|--------------------------------|-----------------|-----|--------------------------|-----|--------------------------------------------------------------------------------|
|                                | min             | max | min                      | max |                                                                                |
| 16A                            | 1               | 2,5 | 1,5                      | 4   | Up to 2 flexible cables with total section not exceeding the clamping capacity |
| 32A                            | 2,5             | 6   | 2,5                      | 10  |                                                                                |
| 63A                            | 6               | 16  | 6                        | 25  |                                                                                |
| 125A                           | 16              | 50  | 25                       | 70  |                                                                                |

## APPLICATION FIELDS

| Sector            | Environment                       | Typical system                                              | Socket nominal currents (A) | Recommended installation                 |
|-------------------|-----------------------------------|-------------------------------------------------------------|-----------------------------|------------------------------------------|
| Commercial        | Data processing centres           | Connection of "big" processors with $I_{\Delta n} > 3,5$ mA | 16                          | IP 44 flush-mounting                     |
|                   | Public entertainment premises     | Stage light connection                                      | 16 - 32                     |                                          |
| Industrial        | Maintenance Departments           | Movable and portable user connection                        | 16 - 32                     | IP 67 surface-mounting on IP 55 Q-DIN    |
|                   | Production departments            | Machine tool and process machine connection                 | 63 - 125                    | IP 67 surface-mounting                   |
|                   | Chemical industry                 |                                                             |                             |                                          |
| Building industry | Construction and demolition sites | Distribution boards                                         | 16 - 32 - 63                | On Q-BOX ACS                             |
|                   |                                   | Plugs and sockets boards                                    | 16 - 32                     | On Q-DIN ACS                             |
| Agriculture       | Greenhouses                       | Movable sprayers and pumps                                  | 16                          | IP 67 surface-mounting<br>On IP 55 Q-DIN |
|                   | Sheds                             | Movable and portable machinery connection                   | 16 - 32 - 63                |                                          |
| Tourism           | Campsites                         | Power outlet in service area                                | 16 - 32                     | On<br>68 Q-MC range terminal             |
|                   | Tourist harbours                  |                                                             | 16 - 125                    |                                          |

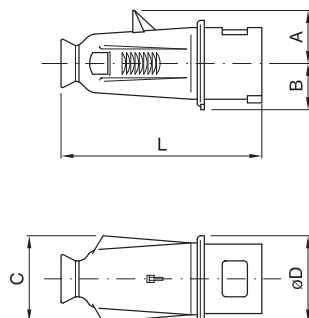
## EXTERNAL CABLE SECTION

| Nominal current In (A) | No. poles                   | Sections allowed by the IEC 309 Standard |           | Sections allowed by the GEWISS IEC 309 Range |           |
|------------------------|-----------------------------|------------------------------------------|-----------|----------------------------------------------|-----------|
|                        |                             | Min. (mm)                                | Max. (mm) | Min. (mm)                                    | Max. (mm) |
| 16                     | 2P+ $\frac{\perp}{\perp}$   | 8.1                                      | 13        | 8                                            | 13.2      |
|                        | 3P+ $\frac{\perp}{\perp}$   | 8.8                                      | 14        | 8.5                                          | 14.3      |
|                        | 3P+N+ $\frac{\perp}{\perp}$ | 10                                       | 15.3      | 10                                           | 15.6      |
| 32                     | 2P+ $\frac{\perp}{\perp}$   | 11.5                                     | 17.3      | 11                                           | 19.6      |
|                        | 3P+ $\frac{\perp}{\perp}$   | 12.5                                     | 19.3      | 12                                           | 19.6      |
|                        | 3P+N+ $\frac{\perp}{\perp}$ | 14                                       | 21.3      | 14                                           | 21.6      |
| 63                     | 2P+ $\frac{\perp}{\perp}$   | 17.3                                     | 26        | 17                                           | 37        |
|                        | 3P+ $\frac{\perp}{\perp}$   | 19.3                                     | 28.5      | 19                                           | 37        |
|                        | 3P+N+ $\frac{\perp}{\perp}$ | 21.3                                     | 31.3      | 21                                           | 37        |
| 125                    | 3P+ $\frac{\perp}{\perp}$   | 28.5                                     | 43.3      | 28                                           | 49        |
|                        | 3P+N+ $\frac{\perp}{\perp}$ | 31.3                                     |           | 31                                           | 49        |

IEC 309 RANGE

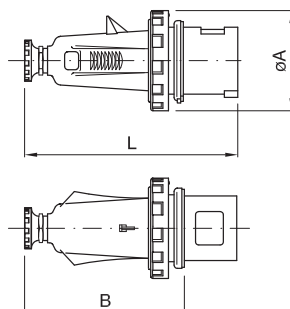
## DIMENSION TABLES

### PROTECTED STRAIGHT PLUGS



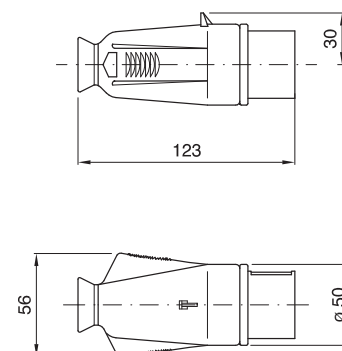
|      | TYPE           | A  | B    | C  | D  | L   |
|------|----------------|----|------|----|----|-----|
| 16 A | 2P + $\pm$     | 30 | 28,5 | 56 | 51 | 125 |
|      | 3P + $\pm$     | 34 | 32   | 60 | 56 | 125 |
|      | 3P + N + $\pm$ | 38 | 36   | 66 | 63 | 137 |
| 32 A | 2P + $\pm$     | 40 | 38,5 | 66 | 65 | 157 |
|      | 3P + $\pm$     | 40 | 38,5 | 66 | 65 | 157 |
|      | 3P + N + $\pm$ | 45 | 42   | 71 | 71 | 157 |

### WATERTIGHT STRAIGHT PLUGS



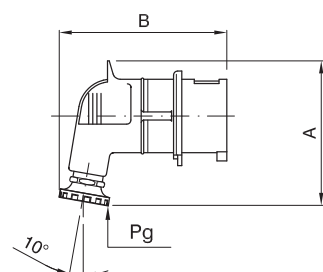
|       | TYPE           | A   | B   | L   | Pg |
|-------|----------------|-----|-----|-----|----|
| 16 A  | 2P + $\pm$     | 73  | 105 | 138 | 16 |
|       | 3P + $\pm$     | 81  | 113 | 147 | 16 |
|       | 3P + N + $\pm$ | 89  | 125 | 158 | 16 |
| 32 A  | 2P + $\pm$     | 95  | 135 | 177 | 21 |
|       | 3P + $\pm$     | 95  | 135 | 177 | 21 |
|       | 3P + N + $\pm$ | 102 | 135 | 177 | 21 |
| 63 A  | 2P + $\pm$     | 113 | 167 | 228 | 36 |
|       | 3P + $\pm$     | 113 | 167 | 228 | 36 |
|       | 3P + N + $\pm$ | 113 | 167 | 228 | 36 |
| 125 A | 3P + $\pm$     | 130 | 230 | 300 | 48 |
|       | 3P + N + $\pm$ | 130 | 230 | 300 | 48 |

### EXTRA LOW-VOLTAGE PROTECTED STRAIGHT PLUGS



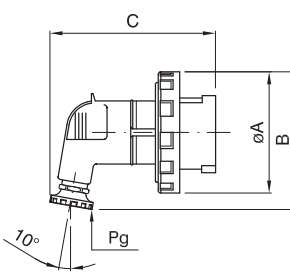
Dimensions valid for all versions

### PROTECTED 90° PLUGS



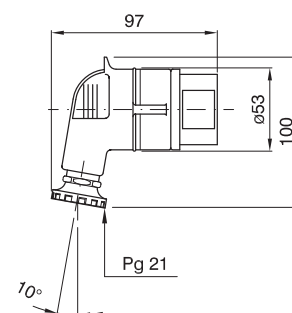
|      | TYPE           | A   | B   | Pg |
|------|----------------|-----|-----|----|
| 16 A | 2P + $\pm$     | 88  | 105 | 16 |
|      | 3P + $\pm$     | 94  | 108 | 16 |
|      | 3P + N + $\pm$ | 101 | 119 | 16 |
| 32 A | 2P + $\pm$     | 113 | 129 | 21 |
|      | 3P + $\pm$     | 113 | 129 | 21 |
|      | 3P + N + $\pm$ | 121 | 140 | 21 |

### WATERTIGHT 90° PLUGS



|      | TYPE           | A   | B   | C   | Pg |
|------|----------------|-----|-----|-----|----|
| 16 A | 2P + $\pm$     | 73  | 95  | 105 | 16 |
|      | 3P + $\pm$     | 80  | 100 | 108 | 16 |
|      | 3P + N + $\pm$ | 88  | 107 | 119 | 16 |
| 32 A | 2P + $\pm$     | 95  | 121 | 129 | 21 |
|      | 3P + $\pm$     | 95  | 121 | 129 | 21 |
|      | 3P + N + $\pm$ | 102 | 127 | 140 | 21 |

### EXTRA LOW-VOLTAGE PROTECTED 90° PLUGS



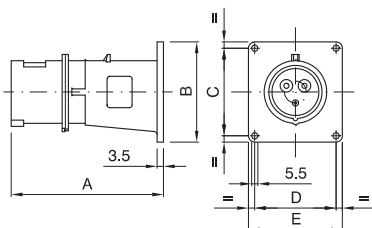
Dimensions valid for all versions

# IEC 309 RANGE

PLUGS AND SOCKETS IEC 309 STANDARDS

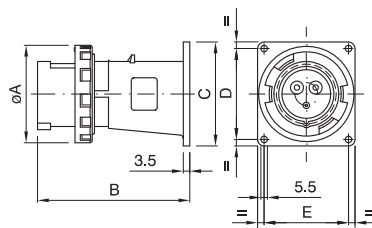
**GEWISS**

## FLUSH-MOUNTING PROTECTED PLUGS



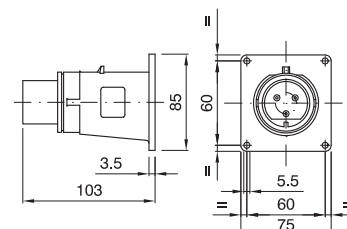
|      | TYPE           | A   | B  | C  | D  | E  |
|------|----------------|-----|----|----|----|----|
| 16 A | 2P + $\pm$     | 116 | 85 | 60 | 60 | 75 |
|      | 3P + $\pm$     | 121 | 85 | 60 | 60 | 75 |
|      | 3P + N + $\pm$ | 131 | 85 | 60 | 60 | 75 |
| 32 A | 2P + $\pm$     | 140 | 95 | 70 | 60 | 80 |
|      | 3P + $\pm$     | 140 | 95 | 70 | 60 | 80 |
|      | 3P + N + $\pm$ | 152 | 95 | 70 | 60 | 80 |

## WATERTIGHT FLUSH-MOUNTING PLUGS



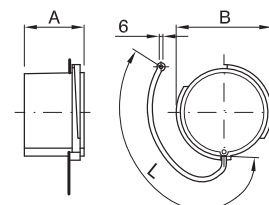
|      | TYPE           | A   | B   | C  | D  | E  | F  |
|------|----------------|-----|-----|----|----|----|----|
| 16 A | 2P + $\pm$     | 73  | 116 | 85 | 60 | 60 | 75 |
|      | 3P + $\pm$     | 81  | 121 | 85 | 60 | 60 | 75 |
|      | 3P + N + $\pm$ | 89  | 131 | 85 | 60 | 60 | 75 |
| 32 A | 2P + $\pm$     | 95  | 140 | 95 | 70 | 60 | 80 |
|      | 3P + $\pm$     | 95  | 140 | 95 | 70 | 60 | 80 |
|      | 3P + N + $\pm$ | 102 | 152 | 95 | 70 | 60 | 80 |

## EXTRA LOW VOLTAGE FLUSH-MOUNTING PROTECTED FIXED PLUGS



Dimensions valid for all versions

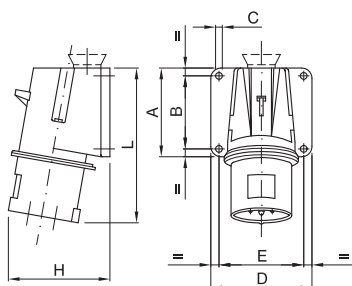
## WATERTIGHT COVERS FOR PLUGS



Dimensions valid for all versions

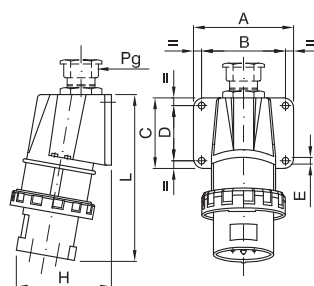
|      | TYPE           | A  | B  | L   |
|------|----------------|----|----|-----|
| 16 A | 2P + $\pm$     | 41 | 60 | 160 |
|      | 3P + $\pm$     | 41 | 68 | 160 |
|      | 3P + N + $\pm$ | 41 | 76 | 165 |
| 32 A | 2P + $\pm$     | 51 | 82 | 165 |
|      | 3P + $\pm$     | 51 | 82 | 165 |
|      | 3P + N + $\pm$ | 51 | 89 | 180 |

## SURFACE-MOUNTING PROTECTED 90° PLUGS



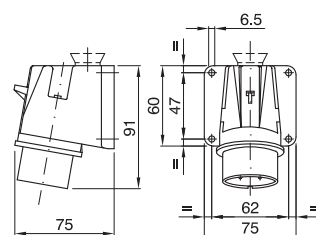
|      | TYPE           | A  | B  | C   | D  | E  | H   | L   |
|------|----------------|----|----|-----|----|----|-----|-----|
| 16 A | 2P + $\pm$     | 60 | 47 | 6,5 | 75 | 62 | 78  | 106 |
|      | 3P + $\pm$     | 65 | 52 | 6,5 | 80 | 67 | 86  | 110 |
|      | 3P + N + $\pm$ | 75 | 62 | 6,5 | 85 | 72 | 90  | 122 |
| 32 A | 2P + $\pm$     | 80 | 67 | 6,5 | 90 | 77 | 93  | 135 |
|      | 3P + $\pm$     | 80 | 67 | 6,5 | 90 | 77 | 93  | 135 |
|      | 3P + N + $\pm$ | 80 | 67 | 6,5 | 90 | 77 | 103 | 135 |

## SURFACE-MOUNTING 90° WATERTIGHT PLUGS



|       | TYPE           | a   | B   | C   | D   | E   | H   | L   | Pg |
|-------|----------------|-----|-----|-----|-----|-----|-----|-----|----|
| 16 A  | 2P + $\pm$     | 75  | 62  | 60  | 47  | 6,5 | 83  | 115 | 21 |
|       | 3P + $\pm$     | 82  | 67  | 65  | 52  | 6,5 | 98  | 120 | 21 |
|       | 3P + N + $\pm$ | 90  | 72  | 75  | 62  | 6,5 | 105 | 130 | 21 |
| 32 A  | 2P + $\pm$     | 95  | 77  | 80  | 67  | 6,5 | 115 | 145 | 21 |
|       | 3P + $\pm$     | 95  | 77  | 80  | 67  | 6,5 | 115 | 145 | 21 |
|       | 3P + N + $\pm$ | 105 | 77  | 80  | 67  | 6,5 | 122 | 145 | 21 |
| 63 A  | 2P + $\pm$     | 115 | 95  | 90  | 70  | 6,5 | 135 | 200 | 36 |
|       | 3P + $\pm$     | 115 | 95  | 90  | 70  | 6,5 | 135 | 200 | 36 |
|       | 3P + N + $\pm$ | 115 | 95  | 90  | 70  | 6,5 | 135 | 200 | 36 |
| 125 A | 3P + $\pm$     | 140 | 120 | 140 | 120 | 6,5 | 150 | 280 | 48 |
|       | 3P + N + $\pm$ | 140 | 120 | 140 | 120 | 6,5 | 150 | 280 | 48 |

## EXTRA LOW VOLTAGE 90° SURFACE-MOUNTING PROTECTED FIXED PLUGS



Dimensions valid for all versions

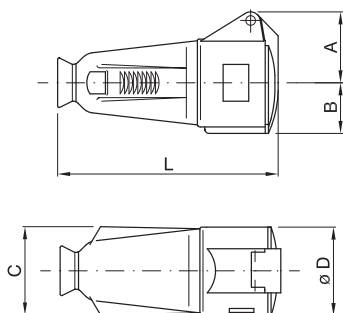
IEC 309 RANGE

# IEC 309 RANGE

PLUGS AND SOCKETS IEC 309 STANDARDS

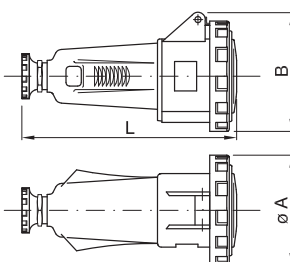
GEWISS

## PROTECTED STRAIGHT CONNECTORS



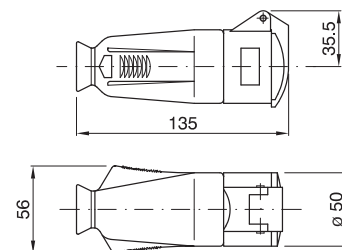
|      | TYPE           | A    | B    | C  | D  | L   |
|------|----------------|------|------|----|----|-----|
| 16 A | 2P + $\pm$     | 40,5 | 28,5 | 56 | 51 | 132 |
|      | 3P + $\pm$     | 43   | 32   | 60 | 56 | 132 |
|      | 3P + N + $\pm$ | 47   | 36   | 66 | 63 | 144 |
| 32 A | 2P + $\pm$     | 48   | 38,5 | 66 | 65 | 164 |
|      | 3P + $\pm$     | 48   | 38,5 | 66 | 65 | 164 |
|      | 3P + N + $\pm$ | 51   | 42   | 71 | 71 | 164 |

## WATERTIGHT STRAIGHT CONNECTORS



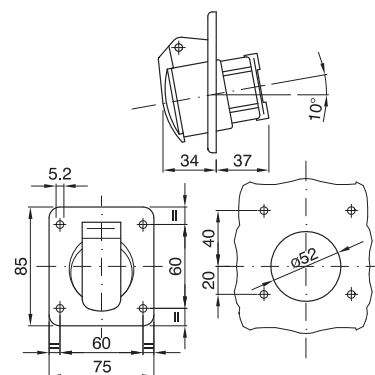
|       | TYPE           | A   | B   | L   | Pg |
|-------|----------------|-----|-----|-----|----|
| 16 A  | 2P + $\pm$     | 73  | 82  | 157 | 16 |
|       | 3P + $\pm$     | 81  | 90  | 163 | 16 |
|       | 3P + N + $\pm$ | 89  | 98  | 175 | 16 |
| 32 A  | 2P + $\pm$     | 95  | 103 | 195 | 21 |
|       | 3P + $\pm$     | 95  | 103 | 195 | 21 |
|       | 3P + N + $\pm$ | 102 | 110 | 195 | 21 |
| 63 A  | 2P + $\pm$     | 113 | 118 | 248 | 36 |
|       | 3P + $\pm$     | 113 | 118 | 248 | 36 |
|       | 3P + N + $\pm$ | 113 | 118 | 248 | 36 |
| 125 A | 3P + $\pm$     | 130 | 130 | 320 | 48 |
|       | 3P + N + $\pm$ | 130 | 130 | 320 | 48 |

## EXTRA LOW-VOLTAGE PROTECTED STRAIGHT CONNECTORS

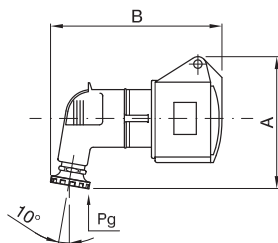


Dimensions valid for all versions

## LOW-VOLTAGE PROTECTED

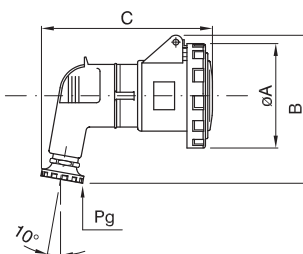


## PROTECTED 90° CONNECTORS



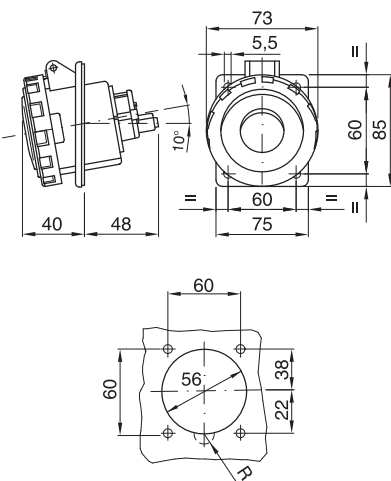
|      | TYPE           | A   | B   | Pg |
|------|----------------|-----|-----|----|
| 16 A | 2P + $\pm$     | 99  | 113 | 16 |
|      | 3P + $\pm$     | 103 | 116 | 16 |
|      | 3P + N + $\pm$ | 110 | 127 | 16 |
| 32 A | 2P + $\pm$     | 121 | 138 | 21 |
|      | 3P + $\pm$     | 121 | 138 | 21 |
|      | 3P + N + $\pm$ | 127 | 149 | 21 |

## WATERTIGHT 90° CONNECTORS



|      | TYPE           | A   | B   | C   | Pg |
|------|----------------|-----|-----|-----|----|
| 16 A | 2P + $\pm$     | 73  | 102 | 123 | 16 |
|      | 3P + $\pm$     | 80  | 108 | 126 | 16 |
|      | 3P + N + $\pm$ | 88  | 115 | 137 | 16 |
| 32 A | 2P + $\pm$     | 95  | 128 | 148 | 21 |
|      | 3P + $\pm$     | 95  | 128 | 148 | 21 |
|      | 3P + N + $\pm$ | 102 | 135 | 159 | 21 |

## EXTRA LOW-VOLTAGE WATERTIGHT

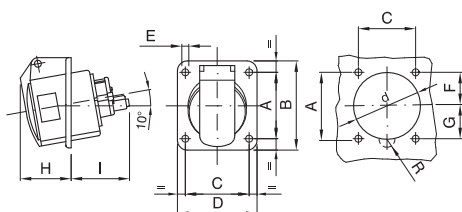


# IEC 309 RANGE

PLUGS AND SOCKETS IEC 309 STANDARDS

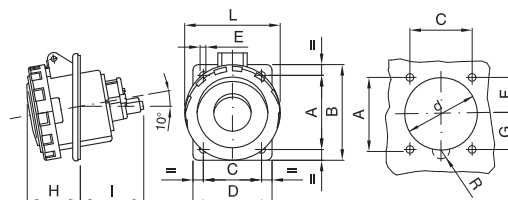
GEWISS

## PROTECTED FLUSH-MOUNTING 10° SOCKET-OUTLETS



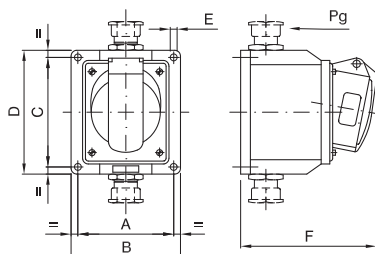
| TYPE                   | A  | B  | C  | D  | E   | F    | G    | H  | I  | Ød | R |
|------------------------|----|----|----|----|-----|------|------|----|----|----|---|
| 2P + $\pm$             |    |    |    |    |     |      |      |    |    |    |   |
| (fixing plate)         | 47 | 62 | 47 | 62 | 5,5 | 23,5 | 23,5 | 32 | 48 | 56 | - |
| <b>16 A</b> 2P + $\pm$ | 60 | 85 | 60 | 75 | 5,5 | 38   | 22   | 34 | 50 | 56 | - |
| 3P + $\pm$             | 60 | 85 | 60 | 75 | 5,5 | 35   | 25   | 33 | 50 | 62 | - |
| 3P + N + $\pm$         | 60 | 85 | 60 | 75 | 5,5 | 29   | 31   | 35 | 50 | 65 | 8 |
| 2P + $\pm$             | 70 | 95 | 60 | 80 | 5,5 | 32   | 38   | 43 | 65 | 68 | 8 |
| <b>32 A</b> 3P + $\pm$ | 70 | 95 | 60 | 80 | 5,5 | 32   | 38   | 43 | 65 | 68 | 8 |
| 3P + N + $\pm$         | 70 | 95 | 60 | 80 | 5,5 | 29,5 | 40,5 | 43 | 65 | 74 | 8 |

## WATERTIGHT FLUSH-MOUNTING 10° SOCKET-OUTLETS



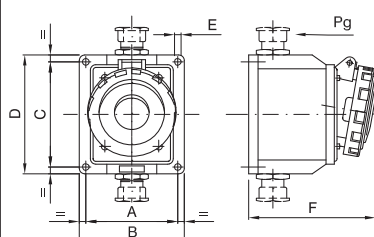
| TYPE                    | A  | B   | C  | D   | E   | F    | G    | H  | I   | L   | R  | d  |
|-------------------------|----|-----|----|-----|-----|------|------|----|-----|-----|----|----|
| 2P + $\pm$              | 60 | 85  | 60 | 75  | 5,5 | 38   | 22   | 40 | 48  | 73  | -  | 56 |
| <b>16 A</b> 3P + $\pm$  | 60 | 85  | 60 | 75  | 5,5 | 35   | 25   | 42 | 48  | 81  | -  | 62 |
| 3P + N + $\pm$          | 60 | 85  | 60 | 75  | 5,5 | 29   | 31   | 42 | 48  | 89  | 5  | 66 |
| 2P + $\pm$              | 70 | 95  | 60 | 80  | 5,5 | 32   | 38   | 47 | 63  | 95  | 7  | 68 |
| <b>32 A</b> 3P + $\pm$  | 70 | 95  | 60 | 80  | 5,5 | 32   | 38   | 47 | 63  | 95  | 7  | 68 |
| 3P + N + $\pm$          | 70 | 95  | 60 | 80  | 5,5 | 29,5 | 40,5 | 48 | 63  | 102 | 7  | 74 |
| 2P + $\pm$              | 85 | 110 | 80 | 100 | 6   | 41   | 44   | 61 | 93  | 113 | 11 | 84 |
| <b>63 A</b> 3P + $\pm$  | 85 | 110 | 80 | 100 | 6   | 41   | 44   | 61 | 93  | 113 | 11 | 84 |
| 3P + N + $\pm$          | 85 | 110 | 80 | 100 | 6   | 41   | 44   | 61 | 93  | 113 | 11 | 84 |
| <b>125 A</b> 3P + $\pm$ | 90 | 114 | 90 | 114 | 6   | 43   | 47   | 80 | 130 | 130 | 13 | 95 |
| 3P + N + $\pm$          | 90 | 114 | 90 | 114 | 6   | 43   | 47   | 80 | 130 | 130 | 13 | 95 |

## SURFACE-MOUNTING PROTECTED 10° SOCKET-OUTLETS



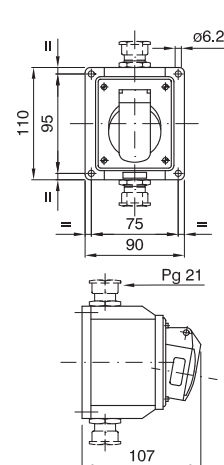
| TYPE                   | A  | B   | C   | D   | E   | F   | Pg |
|------------------------|----|-----|-----|-----|-----|-----|----|
| 2P + $\pm$             | 75 | 90  | 95  | 110 | 6,2 | 105 | 21 |
| <b>16 A</b> 3P + $\pm$ | 75 | 90  | 95  | 110 | 6,2 | 107 | 21 |
| 3P + N + $\pm$         | 75 | 90  | 95  | 110 | 6,2 | 109 | 21 |
| 2P + $\pm$             | 90 | 105 | 105 | 120 | 6,2 | 125 | 21 |
| <b>32 A</b> 3P + $\pm$ | 90 | 105 | 105 | 120 | 6,2 | 125 | 21 |
| 3P + N + $\pm$         | 90 | 105 | 105 | 120 | 6,2 | 125 | 21 |

## SURFACE-MOUNTING WATERTIGHT 10° SOCKET-OUTLETS



| TYPE                   | A   | B   | C   | D   | E   | F   | Pg |
|------------------------|-----|-----|-----|-----|-----|-----|----|
| 2P + $\pm$             | 75  | 90  | 95  | 110 | 6,2 | 113 | 21 |
| <b>16 A</b> 3P + $\pm$ | 75  | 90  | 95  | 110 | 6,2 | 115 | 21 |
| 3P + N + $\pm$         | 75  | 90  | 95  | 110 | 6,2 | 115 | 21 |
| 2P + $\pm$             | 90  | 105 | 105 | 120 | 6,2 | 130 | 21 |
| <b>32 A</b> 3P + $\pm$ | 90  | 105 | 105 | 120 | 6,2 | 130 | 21 |
| 3P + N + $\pm$         | 90  | 105 | 105 | 120 | 6,2 | 130 | 21 |
| 2P + $\pm$             | 100 | 115 | 125 | 140 | 6,2 | 173 | 36 |
| <b>63 A</b> 3P + $\pm$ | 100 | 115 | 125 | 140 | 6,2 | 173 | 36 |
| 3P + N + $\pm$         | 100 | 115 | 125 | 140 | 6,2 | 173 | 36 |

## EXTRA LOW VOLTAGE SURFACE-MOUNTED PROTECTED 10° SOCKET-OUTLETS



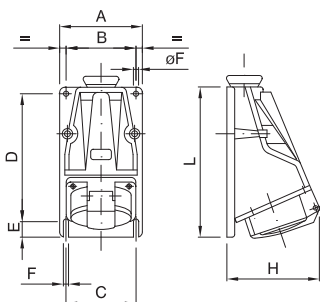
Dimensions valid for all versions

# IEC 309 RANGE

PLUGS AND SOCKETS IEC 309 STANDARDS

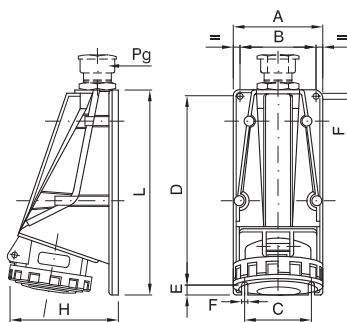
**GEWISS**

## SURFACE-MOUNTING PROTECTED 90° SOCKET-OUTLETS



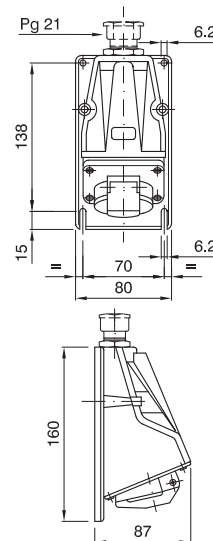
| TYPE                   | A   | B  | C  | D   | E  | F | H   | L   |
|------------------------|-----|----|----|-----|----|---|-----|-----|
| 2P + $\pm$             | 90  | 70 | 70 | 138 | 15 | 6 | 93  | 160 |
| <b>16 A</b> 3P + $\pm$ | 90  | 70 | 70 | 138 | 15 | 6 | 98  | 160 |
| 3P + N + $\pm$         | 90  | 70 | 70 | 138 | 15 | 6 | 103 | 160 |
| 2P + $\pm$             | 105 | 85 | 85 | 148 | 15 | 6 | 110 | 170 |
| <b>32 A</b> 3P + $\pm$ | 105 | 85 | 85 | 148 | 15 | 6 | 110 | 170 |
| 3P + N + $\pm$         | 105 | 85 | 85 | 148 | 15 | 6 | 115 | 170 |

## SURFACE-MOUNTING WATERTIGHT 90° SOCKET-OUTLETS



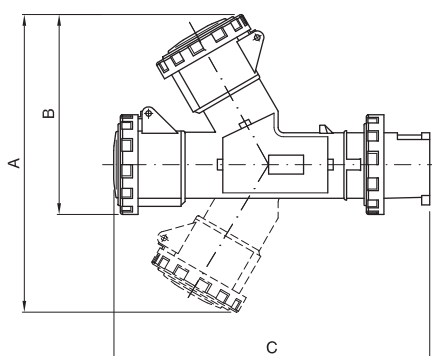
| TYPE                    | A   | B   | C  | D   | E  | F | H   | L   | Pg |
|-------------------------|-----|-----|----|-----|----|---|-----|-----|----|
| 2P + $\pm$              | 90  | 70  | 70 | 138 | 15 | 6 | 95  | 160 | 21 |
| <b>16 A</b> 3P + $\pm$  | 90  | 70  | 70 | 138 | 15 | 6 | 100 | 160 | 21 |
| 3P + N + $\pm$          | 90  | 70  | 70 | 138 | 15 | 6 | 105 | 160 | 21 |
| 2P + $\pm$              | 105 | 85  | 85 | 148 | 15 | 6 | 113 | 170 | 21 |
| <b>32 A</b> 3P + $\pm$  | 105 | 85  | 85 | 148 | 15 | 6 | 113 | 170 | 21 |
| 3P + N + $\pm$          | 105 | 85  | 85 | 148 | 15 | 6 | 118 | 170 | 21 |
| 2P + $\pm$              | 115 | 95  | 80 | 230 | 15 | 6 | 140 | 255 | 36 |
| <b>63 A</b> 3P + $\pm$  | 115 | 95  | 80 | 230 | 15 | 6 | 140 | 255 | 36 |
| 3P + N + $\pm$          | 115 | 95  | 80 | 230 | 15 | 6 | 140 | 255 | 36 |
| <b>125 A</b> 3P + $\pm$ | 132 | 110 | 90 | 275 | 15 | 6 | 160 | 300 | 48 |
| 3P + N + $\pm$          | 132 | 110 | 90 | 275 | 15 | 6 | 160 | 300 | 48 |

## EXTRA LOW VOLTAGE SURFACE-MOUNTING 90° PROTECTED SOCKET-OUTLETS



Dimensions valid for all versions

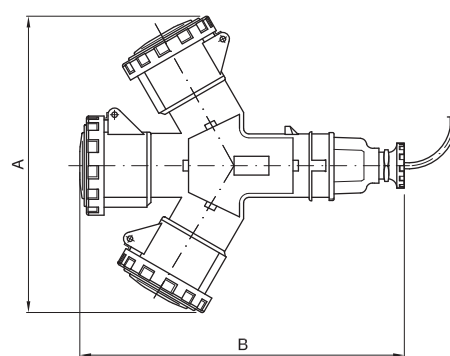
## WATERTIGHT MULTIPLE-OUTLET SOCKETS



| CODE      | A   | B   | C   | NO. OUTPUTS |
|-----------|-----|-----|-----|-------------|
| GW 64 008 |     | 146 | 235 | 2           |
| GW 64 010 |     |     |     |             |
| GW 64 009 |     | 156 | 246 |             |
| GW 64 011 |     |     |     |             |
| GW 64 012 |     | 166 | 258 | 3           |
| GW 64 014 |     |     |     |             |
| GW 64 022 | 218 |     | 235 |             |
| GW 64 024 |     |     |     |             |
| GW 64 023 | 230 |     | 246 | 3           |
| GW 64 025 |     |     |     |             |
| GW 64 027 |     |     |     |             |

| CODE      | A   | C   | NO. OUTPUTS |
|-----------|-----|-----|-------------|
| GW 64 026 | 242 | 258 | 3           |
| GW 64 028 |     |     |             |
| GW 64 059 | 245 | 260 |             |
| GW 64 060 |     |     |             |
| GW 64 062 | 235 | 265 |             |
| GW 64 063 | 250 | 280 |             |
| GW 64 064 | 255 | 295 |             |
| GW 64 061 | 280 | 305 |             |
| GW 64 065 | 295 | 370 | 3           |
| GW 64 068 | 270 | 270 |             |

## MULTIPLE-OUTLET SOCKETS WITH WATERTIGHT CABLE AND PLUG



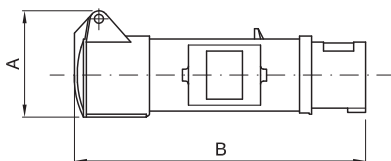
| CODE      | A   | B   |
|-----------|-----|-----|
| GW 64 050 | 218 | 254 |
| GW 64 052 |     |     |
| GW 64 051 |     |     |
| GW 64 053 | 230 | 262 |
| GW 64 055 |     |     |
| GW 64 054 | 242 | 277 |
| GW 64 056 |     |     |

# IEC 309 RANGE

PLUGS AND SOCKETS IEC 309 STANDARDS

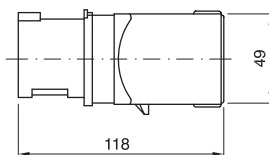
**GEWISS**

## PROTECTED PHASE INVERTER



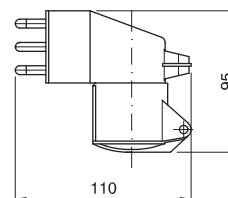
| CODE      | A  | B   |
|-----------|----|-----|
| GW 64 066 | 76 | 196 |
| GW 64 067 | 83 | 196 |

## FROM INDUSTRIAL TO DOMESTIC SYSTEM ADAPTORS

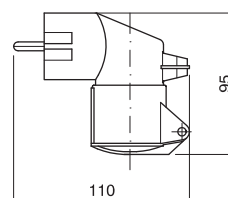


| CODE      | A   |
|-----------|-----|
| GW 64 203 | 118 |
| GW 64 204 |     |
| GW 64 206 |     |
| GW 64 210 |     |
| GW 64 211 |     |
| GW 64 212 |     |
| GW 64 215 | 123 |
| GW 64 207 |     |
| GW 64 216 |     |
| GW 64 217 |     |

## FROM DOMESTIC TO INDUSTRIAL SYSTEM ADAPTORS



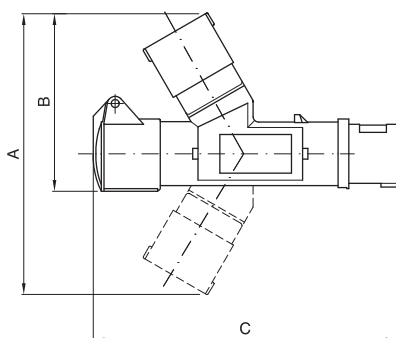
GW 64 208



GW 64 209

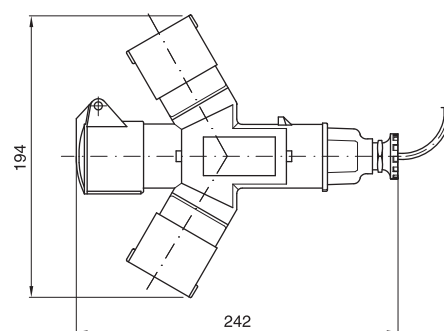
IEC 309 RANGE

## SYSTEM BRANCHED ADAPTORS WITH PLUG



| CODE      | A   | B   | C   | NO. OUTPUTS |
|-----------|-----|-----|-----|-------------|
| GW 64 221 | 194 | 125 | 233 | 2           |
| GW 64 222 |     |     |     |             |
| GW 64 223 |     | 134 | 245 |             |
| GW 64 226 |     |     |     |             |
| GW 64 227 |     |     |     |             |
| GW 64 228 | 202 | 134 | 245 | 3           |
| GW 64 231 |     |     |     |             |
| GW 64 232 |     |     |     |             |
| GW 64 236 |     |     |     |             |
| GW 64 237 | 202 | 134 | 245 | 3           |
| GW 64 237 |     |     |     |             |

## SYSTEM BRANCHED ADAPTORS WITH CABLE AND PLUG



| CODE      | A   | B   |
|-----------|-----|-----|
| GW 64 263 | 194 | 242 |
| GW 64 265 | 194 | 242 |
| GW 64 256 | 202 | 254 |