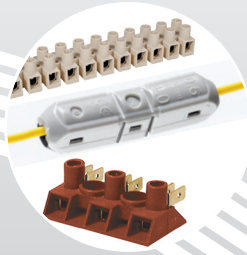




# hylec

## PRODUCT CATALOGUE

MAKING THE **RIGHT** CONNECTIONS



# NEW PRODUCTS IN THIS CATALOGUE



New E-stop Switch, P8



Micro Teetube, P18



Micro Teeplugs, P20



Ventilation Plug, P40



Roof Fans, P72



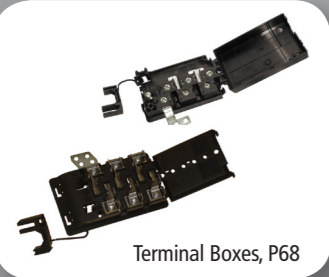
Steel Insert and No Flame Material Pillar Blocks, P60-63



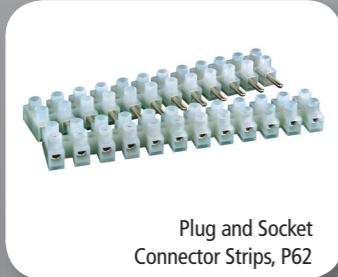
Thermostats and Hygrostat, P74-75



Panel Heaters, P76-77



Terminal Boxes, P68



Plug and Socket Connector Strips, P62



Single and 4 Way Steatite Terminal Blocks, P59



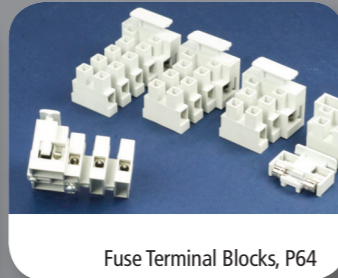
Tab to Tab Connector Strip, P66



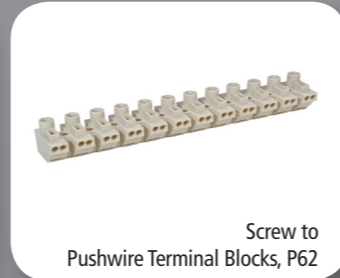
2 and 4 Pole Plug and Socket Connectors, P68



Screw to Tab Terminal Blocks, P66



Fuse Terminal Blocks, P64



Screw to Pushwire Terminal Blocks, P62



Modular Tab Style Terminal Blocks, P66



16 Way Plug and Socket Terminal Strips, P62



Tab Style Power Distribution Connectors, P66



K9 Clamp IDT Connectors. Saves time, saves money, P70-71



Hylec-APL specialise in the manufacture and supply of electrical components – including unique weatherproof connectors, cable glands, enclosures and control components.

In conjunction with our manufacturing company, DE Controls, we are always working to enhance the range of products we supply to meet the increasing need of our customers.

This catalogue includes many of our new products including micro Teetubes and Teeplugs, a greater range of electromechanical connectors (including fuse terminal blocks) and a range of HVAC components – we hope you find these useful additions to our range.

Delivering service, quality and real value for money is our priority.

## Stock

We maintain a large UK stock profile at our Northamptonshire HQ, offering enhanced product availability to our customers.

## Technical

Our sales team support product choice with a wealth of product knowledge and application experience.

## Quality & service

Our company holds ISO 9001:2008 and our products have internationally recognised industrial safety approvals.

MAKING THE **RIGHT** CONNECTIONS

# Contents

## Control Stations & Enclosures



|  |               |
|--|---------------|
| <b>Control Stations</b>                | <b>P6-7</b>   |
| Single Control Stations                | P6            |
| 2 & 3 Switch Control Stations          | P6-7          |
| Accessories                            | P7            |
| <b>22mm Switches &amp; Pilot Lamps</b> | <b>P8-9</b>   |
| <b>DE Enclosures - Hole</b>            | <b>P10-12</b> |
| Accessories                            | P12-13        |
| <b>DE Enclosures - No Hole</b>         | <b>P14-16</b> |
| Accessories                            | P16           |
| <b>Door Enclosures</b>                 | <b>P17</b>    |

## Weatherproof



|                                       |               |
|---------------------------------------|---------------|
| <b>IP68 TeeTube</b>                   | <b>P18-19</b> |
| <b>TeePlugs</b>                       | <b>P20-23</b> |
| <b>TeeBox</b>                         | <b>P24-27</b> |
| Power Distribution Unit               | P26-27        |
| <b>TeeBlock</b>                       | <b>P28-29</b> |
| <b>TeeDrum</b>                        | <b>P30-31</b> |
| <b>Weatherproof Range Accessories</b> | <b>P32</b>    |
| <b>IP68 Gel Filled Connectors</b>     | <b>P33</b>    |

## Cable Glands



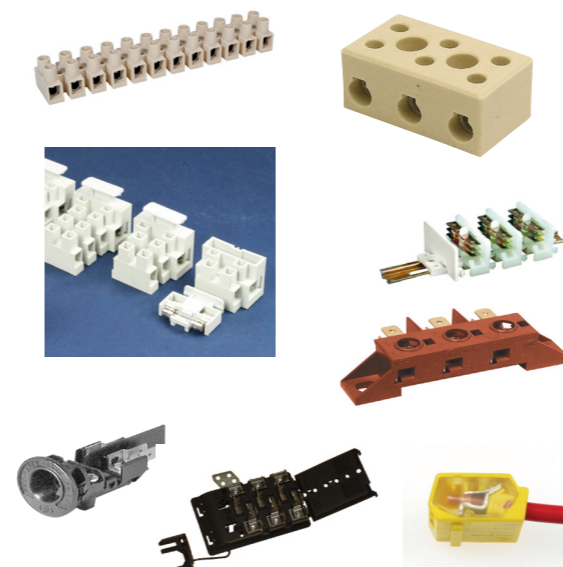
|   |               |
|---|---------------|
| <b>Metric Brass ATEX Explosion Proof</b>              | <b>P34</b>    |
| IP68 Brass Explosion Proof                            | P34           |
| Accessories   | P34           |
| <b>Metric Nylon ATEX Explosion Proof</b>              | <b>P35</b>    |
| <b>Perfect Metric Nickel Plated Brass</b>             | <b>P36-39</b> |
| Accessories   | P38-39        |
| <b>IP68 Nylon Metric Perfect</b>                      | <b>P40-47</b> |
| Kwik Fix IP68 Metric Cable Glands & Ventilation Plugs | P40           |
| Accessories   | P44-47        |

## Cable Glands



|  |               |
|--|---------------|
| <b>Perfect Metric Stainless Steel Cable Glands</b> | <b>P48</b>    |
| <b>TeeGlands</b>                                   | <b>P49</b>    |
| <b>Perfect PG Nickel Plated Brass Cable Glands</b> | <b>P50-53</b> |
| Accessories  | P51-53        |
| <b>Perfect PG Nylon Cable Glands</b>               | <b>P54-57</b> |
| <b>PG Stainless Steel Cable Glands</b>             | <b>P58</b>    |

## Emech



|   |               |
|---|---------------|
| <b>Steatite High Temperature Terminal Blocks</b>                            | <b>P59</b>    |
| <b>Polypropylene and Nylon Pillar Terminal Blocks</b>                       | <b>P60-61</b> |
| <b>Nylon Pillar Terminal Blocks and IP30 Lighting Connectors</b>            | <b>P62-63</b> |
| <b>Fused Pillar Blocks</b>  | <b>P64-65</b> |
| <b>Terminal Blocks - Tab/Tab and Screw/Tab</b>                              | <b>P66-67</b> |
| <b>Chassis Mounting Terminal Boxes &amp; 2/4 way plug/socket Connectors</b> | <b>P68-69</b> |
| <b>Kwik Wire Connectors</b>   | <b>P70</b>    |
| <b>K9 Clamp IDT Connectors</b>  | <b>P70-71</b> |

## HVAC



|                             |               |
|-----------------------------|---------------|
| <b>Roof and Filter Fans</b> | <b>P72-73</b> |
| <b>Control Equipment</b>    | <b>P74-75</b> |
| <b>Panel Heaters</b>        | <b>P76-77</b> |

## Additional Products

|  |               |
|--|---------------|
| <b>Modular DIN Rail Mounted PCB Enclosures</b> | <b>P78</b>    |
| <b>PCB Terminal blocks</b>                     | <b>P79-80</b> |
| <b>Railway certified IP68 cable glands</b>     | <b>P81</b>    |
| <b>Retex UK – Enclosures</b>                   | <b>P82</b>    |
| <b>Retex UK – Racks</b>                        | <b>P83</b>    |

## Control Stations



### Features:

- Customised control station service available - please ask for details.
- Insulation resistance - >100MΩ @ 500VDC
- Enclosures sealed upto IP66
- Unique snap on Din Rail and Flange brackets
- Dust & waterproof for short-term submersion
- 4 sizes available! Accepting 1-4 push button switches
- 2 contact blocks fitted as standard
- Different voltage ratings are available
- Contact material - Silver Bifurcated and serrated
- Operating Temperature -10 to +65degC
- Contact rating - AC12 Resistive / AC15 Electromagnetic - 240V (3A) / 415V (1.5A)
- Mechanical life - 1 million operations



### Single Control Stations

#### Emergency Stop



| Product Code | IP Rating | Colour (Cover / Base) | Material    | H (mm) | W (mm) | D (mm) | Description                                       |
|--------------|-----------|-----------------------|-------------|--------|--------|--------|---|
| 1DE.01.01AG  | IP56      | Yellow / Grey         | ABS-UL94-HB | 80     | 73     | 53*    | Emergency Stop' EN418 fail safe, twist to release |
| 1DE.01.01AB  | IP56      | Yellow / Black        | ABS-UL94-HB | 80     | 73     | 53*    | Emergency Stop' EN418 fail safe, twist to release |



#### Emergency Stop Key

|             |      |                |             |    |    |     |                              |
|-------------|------|----------------|-------------|----|----|-----|------------------------------|
| 1DE.01.03AG | IP56 | Yellow / Grey  | ABS-UL94-HB | 80 | 73 | 53* | Emergency Stop', key release |
| 1DE.01.03AB | IP56 | Yellow / Black | ABS-UL94-HB | 80 | 73 | 53* | Emergency Stop', key release |



#### Push Button

|             |      |              |             |    |    |     |  |
|-------------|------|--------------|-------------|----|----|-----|--|
| 1DE.01.04AB | IP66 | Grey / Black | ABS-UL94-HB | 80 | 73 | 53* | Single 'Stop' push button, Red actuator    |
| 1DE.01.04AG | IP66 | Grey / Grey  | ABS-UL94-HB | 80 | 73 | 53* | Single 'Stop' push button, Red actuator    |
| 1DE.01.06AB | IP66 | Grey / Black | ABS-UL94-HB | 80 | 73 | 53* | Single 'Start' push button, Green actuator |
| 1DE.01.06AG | IP66 | Grey / Grey  | ABS-UL94-HB | 80 | 73 | 53* | Single 'Start' push button, Green actuator |



#### Selector / Key Switch

|             |      |              |             |    |    |     |                            |
|-------------|------|--------------|-------------|----|----|-----|----------------------------|
| 1DE.01.08AB | IP56 | Grey / Black | ABS-UL94-HB | 80 | 73 | 53* | 2-Position Selector Switch |
| 1DE.01.08AG | IP56 | Grey / Grey  | ABS-UL94-HB | 80 | 73 | 53* | 2-Position Selector Switch |
| 1DE.01.09AB | IP56 | Grey / Black | ABS-UL94-HB | 80 | 73 | 53* | 2-Position Key Switch      |
| 1DE.01.09AG | IP56 | Grey / Grey  | ABS-UL94-HB | 80 | 73 | 53* | 2-Position Key Switch      |



#### Double Push Button

|             |      |              |             |    |    |     |   |
|-------------|------|--------------|-------------|----|----|-----|---|
| 1DE.01.10AB | IP56 | Grey / Black | ABS-UL94-HB | 80 | 73 | 53* | Double push button - Stop / Start (O/I) |
| 1DE.01.10AG | IP56 | Grey / Grey  | ABS-UL94-HB | 80 | 73 | 53* | Double push button - Stop / Start (O/I) |



#### Palm / Foot Switch

|             |      |              |             |    |    |       |                                      |
|-------------|------|--------------|-------------|----|----|-------|--------------------------------------|
| 1DE.SP.21NR | IP66 | Grey / Black | ABS-UL94-HB | 85 | 85 | 102** | Palm / Foot push button Red button   |
| 1DE.SP.21NG | IP66 | Grey / Black | ABS-UL94-HB | 85 | 85 | 102** | Palm / Foot push button Green button |
| 1DE.SP.21NB | IP66 | Grey / Black | ABS-UL94-HB | 85 | 85 | 102** | Palm / Foot push button Black button |

### 2 Switch Control Stations

#### Emergency Stop & 1 Push Button



|             |      |                |             |    |     |    |  |
|-------------|------|----------------|-------------|----|-----|----|--|
| 1DE.02.01AG | IP56 | Yellow / Grey  | ABS-UL94-HB | 80 | 106 | 53 | Emergency Stop' EN418 fail safe, twist to release. Single 'Start' push button, Green actuator. |
| 1DE.02.01AB | IP56 | Yellow / Black | ABS-UL94-HB | 80 | 106 | 53 | Emergency Stop' EN418 fail safe, twist to release. Single 'Start' push button, Green actuator. |

#### Emergency Stop & 2 Push Buttons



| Product Code | IP Rating | Colour (Cover / Base) | Material    | H (mm) | W (mm) | D (mm) | Description  |
|--------------|-----------|-----------------------|-------------|--------|--------|--------|--|
| 1DE.03.01AG  | IP56      | Grey / Grey           | ABS-UL94-HB | 80     | 139    | 53     | Emergency Stop' EN418 fail safe, twist to release. Double 'Up / Down' push buttons, Green actuators. |
| 1DE.03.01AB  | IP56      | Grey / Black          | ABS-UL94-HB | 80     | 139    | 53     | Emergency Stop' EN418 fail safe, twist to release. Double 'Up / Down' push buttons, Green actuators. |

#### 2 & 3 Push Buttons



|             |      |              |             |    |     |    |  |
|-------------|------|--------------|-------------|----|-----|----|--|
| 1DE.02.02AG | IP66 | Grey / Grey  | ABS-UL94-HB | 80 | 106 | 53 | Double push button - 'Start' push button, Green actuator & 'Stop' push button, Red actuator.       |
| 1DE.02.02AB | IP66 | Grey / Black | ABS-UL94-HB | 80 | 106 | 53 | Double push button - 'Start' push button, Green actuator & 'Stop' push button, Red actuator.       |
| 1DE.03.02AG | IP66 | Grey / Grey  | ABS-UL94-HB | 80 | 106 | 53 | Double push button - 'FWD / REV' push buttons, Green actuators & 'Stop' push button, Red actuator. |
| 1DE.03.02AB | IP66 | Grey / Black | ABS-UL94-HB | 80 | 106 | 53 | Double push button - 'FWD / REV' push buttons, Green actuators & 'Stop' push button, Red actuator. |

### Accessories

#### Cable Glands



|       |      |       |             |      |    |     |   |
|-------|------|-------|-------------|------|----|-----|---|
| DECGG | IP68 | Grey  | Polyamide 6 | 29.2 | 10 | N/A | Grey Cable Gland POLY6 IP68, Fits All Sizes Of Enclosures, M20 X 1.5mm Thread Glands  |
| DECGB | IP68 | Black | Polyamide 6 | 29.2 | 10 | N/A | Black Cable Gland POLY6 IP68, Fits All Sizes Of Enclosures, M20 X 1.5mm Thread Glands |

#### DIN Rail Clip and Flange Mounting Brackets



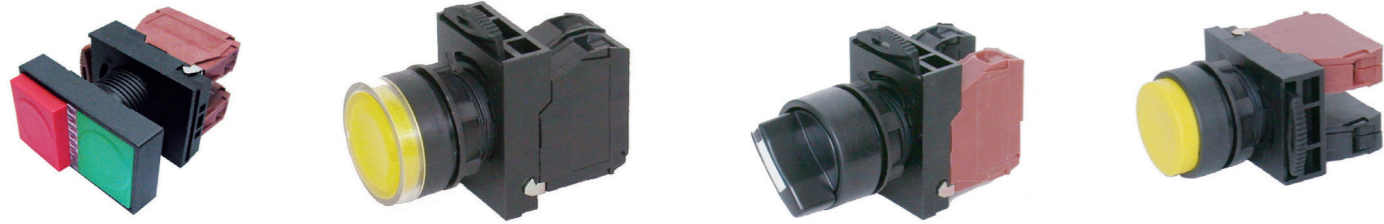
|      |     |       |                              |     |     |     |   |
|------|-----|-------|------------------------------|-----|-----|-----|---|
| DEDB | N/A | Black | PA66 UL94-V0 Flame Retardant | N/A | N/A | N/A | Snap-On Combi Foot DIN Rail Mounting Bracket In Black PA66 Fits DE01-DE04 |
| DEDG | N/A | Grey  | PA66 UL94-V0 Flame Retardant | N/A | N/A | N/A | Snap-On Combi Foot DIN Rail Mounting Bracket In Grey PA66 Fits DE01-DE04  |
| DEFB | N/A | Black | PA66 UL94-V0 Flame Retardant | N/A | N/A | N/A | Snap-On Mounting Bracket In Black PA66 Fits DE01-DE04 2X M3 Fixing Holes  |
| DEFG | N/A | Grey  | PA66 UL94-V0 Flame Retardant | N/A | N/A | N/A | Snap-On Mounting Bracket In Grey PA66 Fits DE01-DE04 2X M3 Fixing Holes   |

#### Miscellaneous

|           |      |             |               |     |     |     |  |
|-----------|------|-------------|---------------|-----|-----|-----|--|
| DB22-H06L | IP65 | Transparent | Polycarbonate | N/A | N/A | N/A | Transparent padlock cover                      |
| DPB22-D06 | N/A  | Transparent | Rubber        | N/A | N/A | N/A | Transparent rubber boot for rectangular switch |
| DPPB-P06  | N/A  | Transparent | Rubber        | N/A | N/A | N/A | Rubber cap for round push button               |
| DPPB-02T  | N/A  | Grey        |               | N/A | N/A | N/A | Fixing Nut Tool                                |
| DM0Y-01   | N/A  | Yellow      |               | N/A | N/A | N/A | Yellow Shroud with hole                        |
| DM01-0W   | N/A  | White       |               | N/A | N/A | N/A | White Shroud with hole                         |

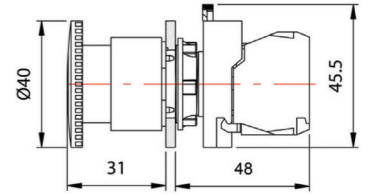
\*Enclosure dimensions \*\*Including Actuator

## 22mm Switches & Pilot Lamps



### Features:

- Non Illuminated push button switches available with 12 different heads
- All switches complete with 1 NO and 1 NC contact blocks
- Mechanical life - 1 million operations
- Contact material - Silver Bifurcated and serrated
- Contact rating - AC12 Resistive / AC15 Electromagnetic - 240V (3A) / 415V (1.5A)
- Choice Of Cap colours
- Insulation resistance - >100MΩ @ 500VDC
- Different voltage ratings are available
- Operating Temperature -10 to +65degC



### 22mm LED Pilot Lamps

| Product Code | Suffix x                                   | Suffix y   | IP Rating                           | Colour                                 | Description            |
|--------------|--|--|-------------------------------------|--|------------------------|
| DLD22-xy     | x = (R)ed (G)reen (Y)ellow (W)hite (S)Blue | y = Lamp Volt (A)AC/DC 24V (E)AC/DC 110V (I)AC/DC 240V (M) AC 440V | IP66                                | Red / Green / Yellow / White / Blue    | Mono block, flush head |
| DPL22-xy     |  | IP66   | Red / Green / Yellow / White / Blue | Round head, complete with BA9 LED lamp |                        |

### 22mm Push Buttons - Non Illuminated

| Product Code | Suffix x   | Suffix y | IP Rating | Colour                                      | Description   |
|--------------|--|----------|-----------|---|---|
| DPB22-D11x   | x = (R)ed (G)reen (Y)ellow (B)lack (W)hite (S)Blue | N/A      | IP56      | Red / Green                                 | Double, momentary action  |
| DPB22-E11x   |  | N/A      | IP66      | Red / Green / Yellow / Black / White / Blue | Momentary, elevated head  |
| DPB22-F11x   |  | N/A      | IP66      | Red / Green / Yellow / Black / White / Blue | Momentary, flush head   |
| DPB22-H11x   |  | N/A      | IP56      | Red   | 'E-Stop' Push / Pull, twist to release, EN418 fail safe, 40mm mushroom head |
| DPB22-K11x   |  | N/A      | IP56      | Red   | 'E-Stop', key to release, EN418 fail safe, 40mm mushroom head               |
| DPB22-L11x   |  | N/A      | IP66      | Red / Green / Yellow / Black / White / Blue | Latching, flush head  |
| DPB22-M11x   |  | N/A      | IP56      | Red / Green / Yellow                        | Momentary, 40mm mushroom head   |
| DPB22-P11x   |  | N/A      | IP66      | Red / Green / Yellow / White / Blue         | Latching, elevated head   |
| DPB22-R11x   |  | N/A      | IP56      | Red   | 'E-Stop', twist to release, EN418 fail safe, 40mm mushroom head             |
| DPB22-S11x   |  | N/A      | IP56      | Red   | 'E-Stop' Push / Pull, twist to release, EN418 fail safe, 35mm mushroom head |
| DPB22-T01x   |  | N/A      | IP54      | Red   | New emergency stop, mushroom head twist to release                          |

### 22mm Push Buttons - LED Illuminated

| Product Code | Suffix x                           | Suffix y   | IP Rating | Colour                       | Description                                   |  |
|--------------|------------------------------------|--|-----------|------------------------------|---|--|
| DLB22-D11xy  | x = (R)ed (G)reen (Y)ellow (W)hite | y = Lamp Volt (A)AC/DC 24V (E)AC/DC 110V (I)AC/DC 240V | IP56      | Red / Green                  | Double, momentary action                      |  |
| DLB22-E11xy  |                                    |  | IP66      | Red / Green / Yellow / White | Momentary, elevated head                      |  |
| DLB22-F11xy  |                                    |  | IP66      | Red / Green / Yellow / White | Momentary, flush head                         |  |
| DLB22-L11xy  |                                    |  | IP66      | Red / Green / Yellow / White | Latching, flush head                          |  |
| DLB22-M11xy  |                                    |  | IP56      | Red / Green / Yellow         | Momentary, 40mm mushroom head                 |  |
| DLB22-P11xy  |                                    |  | IP66      | Red / Green / Yellow / White | Latching, elevated head                       |  |
| DLB22-R11xy  |                                    |  | IP56      | Red                          | 'E-Stop', EN418 fail safe, 40mm mushroom head |  |
| DLB22-T01xy  |                                    |  | N/A       | IP54                         | Red   | New illuminated emergency stop, mushroom head twist to release |

### 22mm Selector / Key Switch - Non Illuminated

| Product Code | Suffix x | Suffix y | IP Rating | Colour | Description                                     |
|--------------|----------|----------|-----------|--------|---|
| DSS22-K111B  | Black    | N/A      | IP56      | Black  | 2 position, spring return, key                  |
| DSS22-K211B  |          | N/A      | IP56      | Black  | 2 position, maintained, key                     |
| DSS22-K011B  |          | N/A      | IP56      | Black  | 3 position, spring return, key                  |
| DSS22-K311B  |          | N/A      | IP56      | Black  | 3 position, maintained, key                     |
| DSS22-S111B  |          | N/A      | IP56      | Black  | 2 position selector, spring return, short lever |
| DSS22-S211B  |          | N/A      | IP56      | Black  | 2 position selector, maintained, short lever    |
| DSS22-S011B  |          | N/A      | IP56      | Black  | 3 position selector, spring return, short lever |
| DSS22-S311B  |          | N/A      | IP56      | Black  | 3 position selector, short lever                |
| DSS22-L111B  |          | N/A      | IP56      | Black  | 2 position selector, spring return, long lever  |
| DSS22-L211B  |          | N/A      | IP56      | Black  | 2 position selector, maintained, long lever     |
| DSS22-L011B  |          | N/A      | IP56      | Black  | 3 position selector, spring return, long lever  |
| DSS22-L311B  |          | N/A      | IP56      | Black  | 3 position selector, long lever                 |

### Accessories

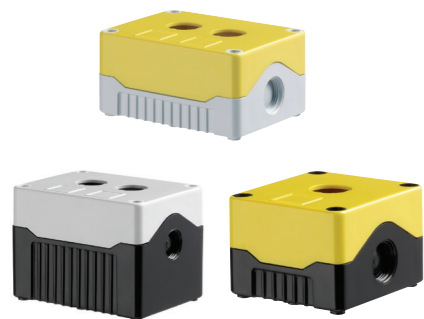
| Product Code | Colour                              | Description  |
|--------------|-------------------------------------|--|
| DCB-01       |                                     | N/C contact block (1b)   |
| DCB-10       |                                     | N/O contact block (1a)   |
| DM01-0Y      | Yellow                              | Yellow shroud  |
| DM01-0W      | White                               | White shroud   |
| DPB22-R01C   | Yellow                              | 'Emergency Stop' Yellow legend plate   |
| DPPB22-01C   | Black                               | Legend holder  |
| DPB22-xx     |                                     | xx = (01)On, (02)Off, (03)Stop, (04)Start, (05)FWD, (06)REV, (07)Up, (08)Down, (09)Run, (10)Off On, (11)O1, (12) On Off On, (13) FWD Off REV, (14) Man Off Auto, (50) Blank<br>Standard legend label |
| DBA9-xy      | Red / Green / Yellow / White / Blue | BA9 LED Lamp   |
| DBA9-T2      |                                     | BA9 Lamp extraction tool   |
| DBA9-H       |                                     | Lampholder   |
| DB22-H06L    | Clear                               | Polycarbonate transparent padlock cover  |
| DPB22-D06    | Clear                               | Transparent rubber boot for rectangular switch   |
| DPPB-P06     |                                     | Rubber cap for round push button   |
| DPPB-02T     | Grey                                | Fixing nut tool  |

### Other Switch Styles Available

#### 22mm Selector / Key Switch - LED Illuminated

- IP56
- Selector switch
- Normal shaft size
- 2 & 3 position
- IP56
- Selector switch
- Long shaft size
- 2 positions
- IP56
- Selector switch
- Long shaft size
- 3 positions

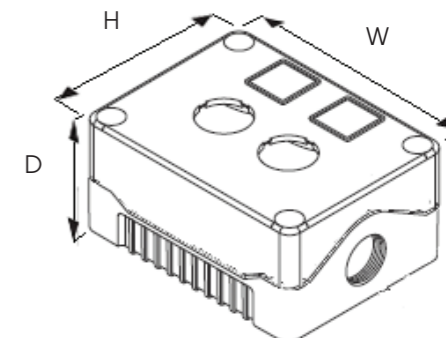
## DE Enclosures - Hole



A range of enclosures supplied complete with 22mm holes for fitting of switches/indicators

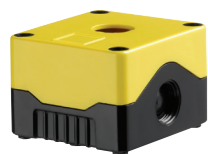
**Features of Range:**

- Complete with M20 cable knockouts
- 4 sizes available in Standard and deep base
- Also available in ABS-UL94
- Unique snap-on DIN rail and flange brackets available
- Suitable for mounting control switches or enclosing printed circuit boards
- Captive plastic screws in lid



**DE01 Enclosure With 1 x 22mm Hole**

| Product Code | IP* rating | Colour (Cover / Base) | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  | Description |
|--------------|------------|-----------------------|---------------|-------|--------|--------|--------|--------------|-------------|
| DE01S-A-BB-1 | IP67       | Black / Black         | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-A-GG-1 | IP67       | Grey / Grey           | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-A-BG-1 | IP67       | Black / Grey          | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-A-GB-1 | IP67       | Grey / Black          | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-A-YB-1 | IP67       | Yellow / Black        | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-A-YG-1 | IP67       | Yellow / Grey         | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-P-BB-1 | IP67       | Black / Black         | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-P-GG-1 | IP67       | Grey / Grey           | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-P-BG-1 | IP67       | Black / Grey          | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-P-GB-1 | IP67       | Grey / Black          | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-P-YB-1 | IP67       | Yellow / Black        | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |             |
| DE01S-P-YG-1 | IP67       | Yellow / Grey         | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |             |



**DE02 Deep Base - 78mm**

| Product Code | IP* rating | Colour (Cover / Base) | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  | Description |
|--------------|------------|-----------------------|---------------|-------|--------|--------|--------|--------------|-------------|
| DE02D-A-BB-2 | IP67       | Black / Black         | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-A-GG-2 | IP67       | Grey / Grey           | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-A-BG-2 | IP67       | Black / Grey          | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-A-GB-2 | IP67       | Grey / Black          | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-A-YB-2 | IP67       | Yellow / Black        | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-A-YG-2 | IP67       | Yellow / Grey         | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-P-BB-2 | IP67       | Black / Black         | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-P-GG-2 | IP67       | Grey / Grey           | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-P-BG-2 | IP67       | Black / Grey          | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-P-GB-2 | IP67       | Grey / Black          | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-P-YB-2 | IP67       | Yellow / Black        | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |             |
| DE02D-P-YG-2 | IP67       | Yellow / Grey         | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |             |



**DE01 Deep Base - 78mm**

| Product Code | IP* rating | Colour (Cover / Base) | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  | Description |
|--------------|------------|-----------------------|---------------|-------|--------|--------|--------|--------------|-------------|
| DE01D-A-BB-1 | IP67       | Black / Black         | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-A-GG-1 | IP67       | Grey / Grey           | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-A-BG-1 | IP67       | Black / Grey          | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-A-GB-1 | IP67       | Grey / Black          | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-A-YB-1 | IP67       | Yellow / Black        | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-A-YG-1 | IP67       | Yellow / Grey         | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-P-BB-1 | IP67       | Black / Black         | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-P-GG-1 | IP67       | Grey / Grey           | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-P-BG-1 | IP67       | Black / Grey          | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-P-GB-1 | IP67       | Grey / Black          | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-P-YB-1 | IP67       | Yellow / Black        | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |             |
| DE01D-P-YG-1 | IP67       | Yellow / Grey         | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |             |



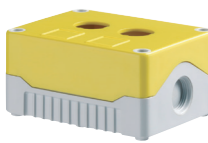
**DE03 Enclosure with 3x22mm Hole**

| Product Code | IP* rating | Colour (Cover / Base) | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  | Description |
|--------------|------------|-----------------------|---------------|-------|--------|--------|--------|--------------|-------------|
| DE03S-A-BB-3 | IP67       | Black / Black         | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-A-GG-3 | IP67       | Grey / Grey           | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-A-BG-3 | IP67       | Black / Grey          | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-A-GB-3 | IP67       | Grey / Black          | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-A-YB-3 | IP67       | Yellow / Black        | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-A-YG-3 | IP67       | Yellow / Grey         | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-P-BB-3 | IP67       | Black / Black         | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-P-GG-3 | IP67       | Grey / Grey           | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-P-BG-3 | IP67       | Black / Grey          | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-P-GB-3 | IP67       | Grey / Black          | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-P-YB-3 | IP67       | Yellow / Black        | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |             |
| DE03S-P-YG-3 | IP67       | Yellow / Grey         | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |             |



**DE02 Enclosure with 2x22mm Hole**

| Product Code | IP* rating | Colour (Cover / Base) | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  | Description |
|--------------|------------|-----------------------|---------------|-------|--------|--------|--------|--------------|-------------|
| DE02S-A-BB-2 | IP67       | Black / Black         | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-A-GG-2 | IP67       | Grey / Grey           | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-A-BG-2 | IP67       | Black / Grey          | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-A-GB-2 | IP67       | Grey / Black          | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-A-YB-2 | IP67       | Yellow / Black        | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-A-YG-2 | IP67       | Yellow / Grey         | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-P-BB-2 | IP67       | Black / Black         | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-P-GG-2 | IP67       | Grey / Grey           | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-P-BG-2 | IP67       | Black / Grey          | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-P-GB-2 | IP67       | Grey / Black          | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-P-YB-2 | IP67       | Yellow / Black        | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |             |
| DE02S-P-YG-2 | IP67       | Yellow / Grey         | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |             |



**DE03 Deep Base - 78mm**

| Product Code | IP* rating | Colour (Cover / Base) | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  | Description |
|--------------|------------|-----------------------|---------------|-------|--------|--------|--------|--------------|-------------|
| DE03D-A-BB-3 | IP67       | Black / Black         | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-A-GG-3 | IP67       | Grey / Grey           | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-A-BG-3 | IP67       | Black / Grey          | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-A-GB-3 | IP67       | Grey / Black          | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-A-YB-3 | IP67       | Yellow / Black        | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-A-YG-3 | IP67       | Yellow / Grey         | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-P-BB-3 | IP67       | Black / Black         | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-P-GG-3 | IP67       | Grey / Grey           | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-P-BG-3 | IP67       | Black / Grey          | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-P-GB-3 | IP67       | Grey / Black          | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-P-YB-3 | IP67       | Yellow / Black        | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |             |
| DE03D-P-YG-3 | IP67       | Yellow / Grey         | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |             |

\*IP Rating - Standard construction as 'no-hole' enclosures are IP67 rated. Hole enclosure will comply with IP67 rating (max) depending on IP rating of components fitted into unit.

\*IP Rating - Standard construction as 'no-hole' enclosures are IP67 rated. Hole enclosure will comply with IP67 rating (max) depending on IP rating of components fitted into unit.

## DE Enclosures - Hole

### DE04 Enclosures with 4x22mm Hole



| Product Code | IP* rating | Colour (Cover / Base) | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  | Description |
|--------------|------------|-----------------------|---------------|-------|--------|--------|--------|--------------|-------------|
| DE04S-A-BB-4 | IP67       | Black/ Black          | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-A-GG-4 | IP67       | Grey/ Grey            | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-A-BG-4 | IP67       | Black /Grey           | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-A-GB-4 | IP67       | Grey/ Black           | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-A-YB-4 | IP67       | Yellow/ Black         | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-A-YG-4 | IP67       | Yellow/ Grey          | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-P-BB-4 | IP67       | Black/ Black          | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-P-GG-4 | IP67       | Grey/ Grey            | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-P-BG-4 | IP67       | Black /Grey           | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-P-GB-4 | IP67       | Grey/ Black           | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-P-YB-4 | IP67       | Yellow/ Black         | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |             |
| DE04S-P-YG-4 | IP67       | Yellow/ Grey          | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |             |

### DE04 Deep Base - 78mm



| Product Code | IP* rating | Colour (Cover / Base) | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  | Description |
|--------------|------------|-----------------------|---------------|-------|--------|--------|--------|--------------|-------------|
| DE04D-A-BB-4 | IP67       | Black/ Black          | ABS-UL94-HB   | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-A-GG-4 | IP67       | Grey/ Grey            | ABS-UL94-HB   | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-A-BG-4 | IP67       | Black /Grey           | ABS-UL94-HB   | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-A-GB-4 | IP67       | Grey/ Black           | ABS-UL94-HB   | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-A-YB-4 | IP67       | Yellow/ Black         | ABS-UL94-HB   | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-A-YG-4 | IP67       | Yellow/ Grey          | ABS-UL94-HB   | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-P-BB-4 | IP67       | Black/ Black          | Polycarbonate | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-P-GG-4 | IP67       | Grey/ Grey            | Polycarbonate | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-P-BG-4 | IP67       | Black /Grey           | Polycarbonate | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-P-GB-4 | IP67       | Grey/ Black           | Polycarbonate | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-P-YB-4 | IP67       | Yellow/ Black         | Polycarbonate | DE04D | 80     | 172    | 78     | -10c to +65c |             |
| DE04D-P-YG-4 | IP67       | Yellow/ Grey          | Polycarbonate | DE04D | 80     | 172    | 78     | -10c to +65c |             |

\*IP Rating - Standard construction as 'no-hole' enclosures are IP67 rated.  
Hole enclosure will comply with IP67 rating (max) depending on IP rating of components fitted into unit.

### Accessories

#### Cable Glands - Grey



| Product Code | IP* rating | Colour (Cover / Base) | Material    | Size | H (mm) | W (mm) | D (mm)   | Temp Rating    | Description   |
|--------------|------------|-----------------------|-------------|------|--------|--------|----------|----------------|---|
| DECGG        | IP68       | RAL7035               | Polyamide 6 | M20  | 39.2   | 10     | 3.5 to 8 | -40C TO + 100C | Fits all sizes of enclosures, m20 x 1.5Mm thread glands |

#### Cable Glands - Black

| Product Code | IP* rating | Colour (Cover / Base) | Material    | Size | H (mm) | W (mm) | D (mm)   | Temp Rating    | Description   |
|--------------|------------|-----------------------|-------------|------|--------|--------|----------|----------------|---|
| DECEB        | IP68       | RAL9005               | Polyamide 6 | M20  | 39.2   | 10     | 3.5 to 8 | -40C TO + 100C | Fits all sizes of enclosures, m20 x 1.5Mm thread glands |

#### DIN Rail Clip



| Product Code | IP* rating | Colour (Cover / Base) | Material                     | Size | H (mm) | W (mm) | D (mm) | Temp Rating | Description   |
|--------------|------------|-----------------------|------------------------------|------|--------|--------|--------|-------------|---|
| DEDB         | N/A        | Black                 | PA66 UL94-V0 Flame Retardant | N/A  | N/A    | N/A    | N/A    | N/A         | Snap-On combi foot din rail mounting bracket in black PA66 fits DE01-DE04 |
| DEDG         | N/A        | Grey                  | PA66 UL94-V0 Flame Retardant | N/A  | N/A    | N/A    | N/A    | N/A         | Snap-On combi foot din rail mounting bracket in grey PA66 fits DE01-DE04  |

#### Flange Bracket



| Product Code | IP* rating | Colour (Cover / Base) | Material                     | Size | H (mm) | W (mm) | D (mm) | Temp Rating | Description  |
|--------------|------------|-----------------------|------------------------------|------|--------|--------|--------|-------------|--|
| DEFB         | N/A        | Black                 | PA66 UL94-V0 Flame Retardant | N/A  | N/A    | N/A    | N/A    | N/A         | Snap-On mounting bracket in black PA66 fits DE01-DE04 2x M3 fixing holes |
| DEFG         | N/A        | Grey                  | PA66 UL94-V0 Flame Retardant | N/A  | N/A    | N/A    | N/A    | N/A         | Snap-On mounting bracket in grey PA66 fits DE01-DE04 2x M3 fixing holes  |

### Legends

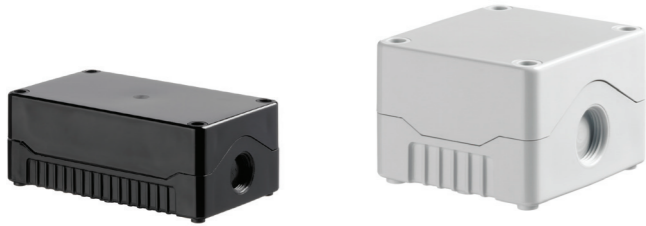


| Product Code | IP rating | Colour (Cover / Base) | Material              | Size | H (mm) | W (mm) | D (mm) | Legend     | Description                       |
|--------------|-----------|-----------------------|-----------------------|------|--------|--------|--------|------------|-----------------------------------|
| NCU-61-01    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | On         | Legend for use with DE Enclosures |
| NCU-61-02    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Off        |                                   |
| NCU-61-03    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Start      |                                   |
| NCU-61-04    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Stop       |                                   |
| NCU-61-05    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Fwd        |                                   |
| NCU-61-06    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Rev        |                                   |
| NCU-61-07    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Up         |                                   |
| NCU-61-08    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Down       |                                   |
| NCU-61-09    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Fast       |                                   |
| NCU-61-10    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Slow       |                                   |
| NCU-61-11    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Open       |                                   |
| NCU-61-12    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Close      |                                   |
| NCU-61-13    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Reset      |                                   |
| NCU-61-14    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Em.Stop    |                                   |
| NCU-61-15    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | I O        |                                   |
| NCU-61-16    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | On/Off     |                                   |
| NCU-61-17    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Start/Stop |                                   |
| NCU-61-18    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Fwd/Rev    |                                   |
| NCU-61-19    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Up/Down    |                                   |
| NCU-61-20    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Fast/Slow  |                                   |
| NCU-61-21    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Open/Close |                                   |
| NCU-61-22    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | O I        |                                   |
| NCU-61-23    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Off/On     |                                   |
| NCU-61-24    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Stop/Start |                                   |
| NCU-61-25    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Rev/Fwd    |                                   |
| NCU-61-26    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Down/Up    |                                   |
| NCU-61-27    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Slow/Fast  |                                   |
| NCU-61-28    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | Close/Open |                                   |
| NCU-61-29    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | ←          |                                   |
| NCU-61-30    | N/A       | Silver                | Self-Adhesive Plastic | N/A  | 18     | 18     | 18     | ←→         |                                   |



Customised control stations also available. Please ask for details.

## DE Enclosures - No Hole



### DE Enclosure Features:

- 4 sizes available - standard & deep base
- Sealed to IP67
- Complete with M20 cable knockouts
- Captive plastic screws in lid
- Available in standard and deep base
- Suitable for enclosing printed circuit boards - vertically (via mounting slots) or horizontally
- Unique snap-on DIN rail and flange brackets available
- Also available in ABS-UL94
- Temperature rating of -10° to +65°



### DE01 Enclosure Standard Base - 53mm



| Product Code | IP Rating | Colour              | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  |
|--------------|-----------|---------------------|---------------|-------|--------|--------|--------|--------------|
| DE01S-A-BB-0 | IP67      | Black / Black       | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-A-GG-0 | IP67      | Grey / Grey         | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-A-BG-0 | IP67      | Black / Grey        | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-A-GB-0 | IP67      | Grey / Black        | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-A-TB-0 | IP67      | Transparent / Black | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-A-TG-0 | IP67      | Transparent / Grey  | ABS-UL94-HB   | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-P-BB-0 | IP67      | Black / Black       | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-P-GG-0 | IP67      | Grey / Grey         | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-P-BG-0 | IP67      | Black / Grey        | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-P-GB-0 | IP67      | Grey / Black        | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-P-TB-0 | IP67      | Transparent / Black | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |
| DE01S-P-TG-0 | IP67      | Transparent / Grey  | Polycarbonate | DE01S | 80     | 73     | 53     | -10c to +65c |

### DE01 Deep Base - 78mm



| Product Code | IP Rating | Colour              | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  |
|--------------|-----------|---------------------|---------------|-------|--------|--------|--------|--------------|
| DE01D-A-BB-0 | IP67      | Black / Black       | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-A-GG-0 | IP67      | Grey / Grey         | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-A-BG-0 | IP67      | Black / Grey        | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-A-GB-0 | IP67      | Grey / Black        | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-A-TB-0 | IP67      | Transparent / Black | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-A-TG-0 | IP67      | Transparent / Grey  | ABS-UL94-HB   | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-P-BB-0 | IP67      | Black / Black       | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-P-GG-0 | IP67      | Grey / Grey         | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-P-BG-0 | IP67      | Black / Grey        | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-P-GB-0 | IP67      | Grey / Black        | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-P-TB-0 | IP67      | Transparent / Black | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |
| DE01D-P-TG-0 | IP67      | Transparent / Grey  | Polycarbonate | DE01D | 80     | 73     | 78     | -10c to +65c |

### DE02 Enclosure Standard Base 53mm



| Product Code | IP Rating | Colour              | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  |
|--------------|-----------|---------------------|---------------|-------|--------|--------|--------|--------------|
| DE02S-A-BB-0 | IP67      | Black / Black       | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-A-GG-0 | IP67      | Grey / Grey         | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-A-BG-0 | IP67      | Black / Grey        | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-A-GB-0 | IP67      | Grey / Black        | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-A-TB-0 | IP67      | Transparent / Black | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-A-TG-0 | IP67      | Transparent / Grey  | ABS-UL94-HB   | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-P-BB-0 | IP67      | Black / Black       | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-P-GG-0 | IP67      | Grey / Grey         | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-P-BG-0 | IP67      | Black / Grey        | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-P-GB-0 | IP67      | Grey / Black        | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-P-TB-0 | IP67      | Transparent / Black | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |
| DE02S-P-TG-0 | IP67      | Transparent / Grey  | Polycarbonate | DE02S | 80     | 106    | 53     | -10c to +65c |

### DE02 Deep Base - 78mm

| Product Code  | IP Rating | Colour              | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  |
|---------------|-----------|---------------------|---------------|-------|--------|--------|--------|--------------|
| DE02D-A-BB-0  | IP67      | Black / Black       | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-A-GG-0  | IP67      | Grey / Grey         | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-A-BG-0  | IP67      | Black / Grey        | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-A-GB-0  | IP67      | Grey / Black        | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-A-TB-0  | IP67      | Transparent / Black | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-A-TG-0  | IP67      | Transparent / Grey  | ABS-UL94-HB   | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-P-BB-0  | IP67      | Black / Black       | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-P-GG-0  | IP67      | Grey / Grey         | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-P-BG-0  | IP67      | Black / Grey        | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-AP-GB-0 | IP67      | Grey / Black        | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-P-TB-0  | IP67      | Transparent / Black | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |
| DE02D-P-TG-0  | IP67      | Transparent / Grey  | Polycarbonate | DE02D | 80     | 106    | 78     | -10c to +65c |

### DE03 Enclosure Standard Base 53mm

| Product Code | IP Rating | Colour              | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  |
|--------------|-----------|---------------------|---------------|-------|--------|--------|--------|--------------|
| DE03S-A-BB-0 | IP67      | Black / Black       | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-A-GG-0 | IP67      | Grey / Grey         | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-A-BG-0 | IP67      | Black / Grey        | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-A-GB-0 | IP67      | Grey / Black        | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-A-TB-0 | IP67      | Transparent / Black | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-A-TG-0 | IP67      | Transparent / Grey  | ABS-UL94-HB   | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-P-BB-0 | IP67      | Black / Black       | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-P-GG-0 | IP67      | Grey / Grey         | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-P-BG-0 | IP67      | Black / Grey        | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-P-GB-0 | IP67      | Grey / Black        | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-P-TB-0 | IP67      | Transparent / Black | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |
| DE03S-P-TG-0 | IP67      | Transparent / Grey  | Polycarbonate | DE03S | 80     | 139    | 53     | -10c to +65c |

### Deep Base - 78mm

| Product Code | IP Rating | Colour              | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  |
|--------------|-----------|---------------------|---------------|-------|--------|--------|--------|--------------|
| DE03D-A-BB-0 | IP67      | Black / Black       | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-A-GG-0 | IP67      | Grey / Grey         | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-A-BG-0 | IP67      | Black / Grey        | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-A-GB-0 | IP67      | Grey / Black        | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-A-TB-0 | IP67      | Transparent / Black | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-A-TG-0 | IP67      | Transparent / Grey  | ABS-UL94-HB   | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-P-BB-0 | IP67      | Black / Black       | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-P-GG-0 | IP67      | Grey / Grey         | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-P-BG-0 | IP67      | Black / Grey        | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-P-GB-0 | IP67      | Grey / Black        | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-P-TB-0 | IP67      | Transparent / Black | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |
| DE03D-P-TG-0 | IP67      | Transparent / Grey  | Polycarbonate | DE03D | 80     | 139    | 78     | -10c to +65c |

### DE04 Enclosure Standard Base 53mm

| Product Code | IP Rating | Colour              | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating  |
|--------------|-----------|---------------------|---------------|-------|--------|--------|--------|--------------|
| DE04S-A-BB-0 | IP67      | Black / Black       | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-A-GG-0 | IP67      | Grey / Grey         | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-A-BG-0 | IP67      | Black / Grey        | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-A-GB-0 | IP67      | Grey / Black        | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-A-TB-0 | IP67      | Transparent / Black | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-A-TG-0 | IP67      | Transparent / Grey  | ABS-UL94-HB   | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-P-BB-0 | IP67      | Black / Black       | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-P-GG-0 | IP67      | Grey / Grey         | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-P-BG-0 | IP67      | Black / Grey        | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-P-GB-0 | IP67      | Grey / Black        | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-P-TB-0 | IP67      | Transparent / Black | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |
| DE04S-P-TG-0 | IP67      | Transparent / Grey  | Polycarbonate | DE04S | 80     | 172    | 53     | -10c to +65c |



## DE Enclosures - No Hole

### Deep Base - 78mm

| Product Code | IP Rating | Colour             | Material      | Size  | H (mm) | W (mm) | D (mm) | Temp Rating | Description |
|--------------|-----------|--------------------|---------------|-------|--------|--------|--------|-------------|-------------|
| DE04D-A-BB-0 | IP67      | Black/ Black       | ABS-UL94-HB   | DE04D | 80     | 172    | 78     |             |             |
| DE04D-A-GG-0 | IP67      | Grey/ Grey         | ABS-UL94-HB   | DE04D | 80     | 172    | 78     |             |             |
| DE04D-A-BG-0 | IP67      | Black /Grey        | ABS-UL94-HB   | DE04D | 80     | 172    | 78     |             |             |
| DE04D-A-GB-0 | IP67      | Grey/ Black        | ABS-UL94-HB   | DE04D | 80     | 172    | 78     |             |             |
| DE04D-A-TB-0 | IP67      | Transparent/ Black | ABS-UL94-HB   | DE04D | 80     | 172    | 78     |             |             |
| DE04D-A-TG-0 | IP67      | Transparent/ Grey  | ABS-UL94-HB   | DE04D | 80     | 172    | 78     |             |             |
| DE04D-P-BB-0 | IP67      | Black/ Black       | Polycarbonate | DE04D | 80     | 172    | 78     |             |             |
| DE04D-P-GG-0 | IP67      | Grey/ Grey         | Polycarbonate | DE04D | 80     | 172    | 78     |             |             |
| DE04D-P-BG-0 | IP67      | Black /Grey        | Polycarbonate | DE04D | 80     | 172    | 78     |             |             |
| DE04D-P-GB-0 | IP67      | Grey/ Black        | Polycarbonate | DE04D | 80     | 172    | 78     |             |             |
| DE04D-P-TB-0 | IP67      | Transparent/ Black | Polycarbonate | DE04D | 80     | 172    | 78     |             |             |
| DE04D-P-TG-0 | IP67      | Transparent/ Grey  | Polycarbonate | DE04D | 80     | 172    | 78     |             |             |



### Accessories

#### Cable Glands - Grey

| Product Code | IP Rating | Colour  | Material    | Size | H (mm) | W (mm) | D (mm)   | Temp Rating    | Description   |
|--------------|-----------|---------|-------------|------|--------|--------|----------|----------------|---|
| DECGG        | IP68      | RAL7035 | Polyamide 6 | M20  | 39.2   | 10     | 3.5 to 8 | -40C TO + 100C | Fits all sizes of enclosures, m20 x 1.5mm thread glands |



#### Cable Glands - Black

| Product Code | IP Rating | Colour  | Material    | Size | H (mm) | W (mm) | D (mm)   | Temp Rating    | Description   |
|--------------|-----------|---------|-------------|------|--------|--------|----------|----------------|---|
| DECEB        | IP68      | RAL9005 | Polyamide 6 | M20  | 39.2   | 10     | 3.5 to 8 | -40C TO + 100C | Fits all sizes of enclosures, m20 x 1.5mm thread glands |



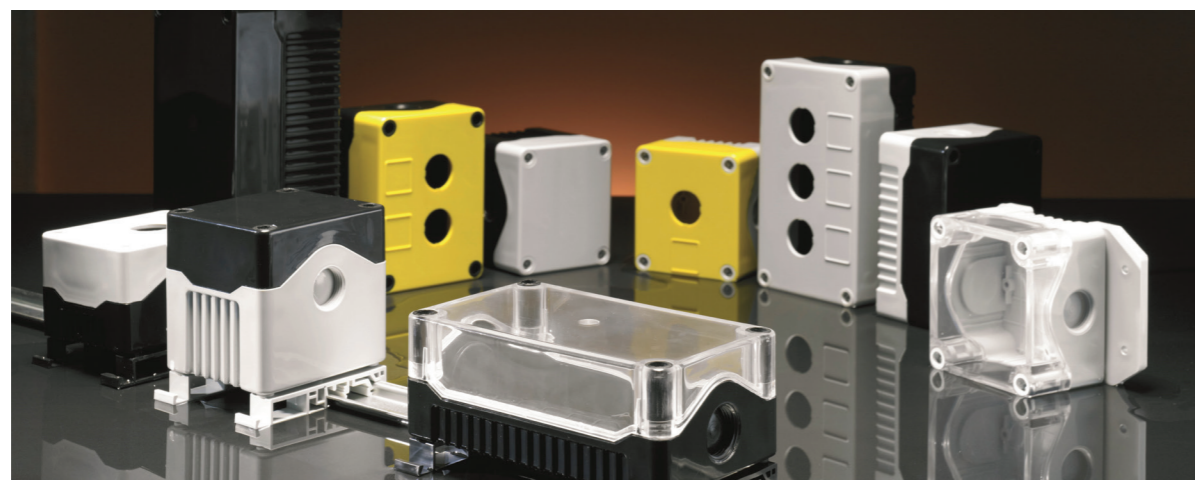
#### DIN Rail Clip

| Product Code | IP Rating | Colour | Material                     | Size | H (mm) | W (mm) | D (mm) | Temp Rating | Description   |
|--------------|-----------|--------|------------------------------|------|--------|--------|--------|-------------|---|
| DEDB         | N/A       | Black  | PA66 UL94-V0 Flame Retardant | N/A  |        |        |        |             | Snap-On combi foot DIN rail mounting bracket in black PA66 fits DE01-DE04 |
| DEDG         | N/A       | Grey   | PA66 UL94-V0 Flame Retardant | N/A  |        |        |        |             | Snap-On combi foot DIN rail mounting bracket in grey PA66 fits DE01-DE04  |



#### Flange Bracket

| Product Code | IP Rating | Colour | Material                     | Size | H (mm) | W (mm) | D (mm) | Temp Rating | Description  |
|--------------|-----------|--------|------------------------------|------|--------|--------|--------|-------------|--|
| DEFB         | N/A       | Black  | PA66 UL94-V0 Flame Retardant | N/A  |        |        |        |             | Snap-On mounting bracket in black PA66 fits DE01-DE04 2x M3 fixing holes |
| DEFG         | N/A       | Grey   | PA66 UL94-V0 Flame Retardant | N/A  |        |        |        |             | Snap-On mounting bracket in grey PA66 fits DE01-DE04 2x M3 fixing holes  |



### Door Enclosure Features:

- Available in 8 sizes
- Made from UL approved ABS-HB Flame Retardant plastic
- Designed to meet protection and combustible standards IP55 and IK08
- Comes complete with steel back plate and mounting brackets
- Supplied in grey (RAL 7035) body with solid or transparent door
- Suitable for use in sea salt air conditions and dry dust environments
- Temperature range of -20° to +85°



### Blank Door Enclosures



| Product Code | IP Rating | Colour   | Material | Size | H (mm) | W (mm) | D (mm) | Temp Rating  | Description                      |
|--------------|-----------|----------|----------|------|--------|--------|--------|--------------|----------------------------------|
| DED001       | IP65      | Ral 7035 | ABS-HB   |      | 300    | 200    | 130    | -20° to +85° | Lockable, with steel back plate* |
| DED002       |           | Ral 7035 | ABS-HB   |      | 350    | 250    | 150    | -20° to +85° | Lockable, with steel back plate* |
| DED004       | IP65      | Ral 7035 | ABS-HB   |      | 400    | 300    | 170    | -20° to +85° | Lockable, with steel back plate* |
| DED005       | IP65      | Ral 7035 | ABS-HB   |      | 400    | 300    | 220    | -20° to +85° | Lockable, with steel back plate* |
| DED006       | IP65      | Ral 7035 | ABS-HB   |      | 500    | 350    | 190    | -20° to +85° | Lockable, with steel back plate* |
| DED007       | IP65      | Ral 7035 | ABS-HB   |      | 500    | 400    | 240    | -20° to +85° | Lockable, with steel back plate* |
| DED008       | IP65      | Ral 7035 | ABS-HB   |      | 600    | 400    | 200    | -20° to +85° | Lockable, with steel back plate* |
| DED010       | IP65      | Ral 7035 | ABS-HB   |      | 700    | 500    | 250    | -20° to +85° | Lockable, with steel back plate* |

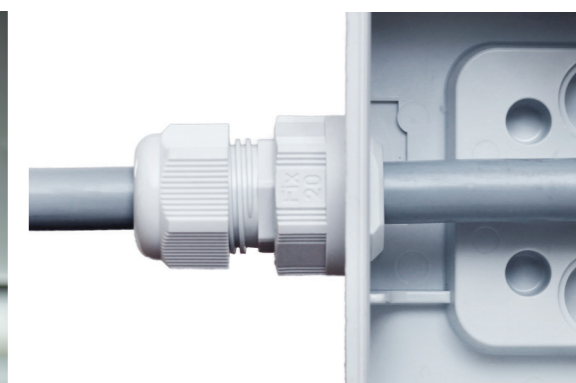
### Transparent Door Enclosures



| Product Code | IP Rating | Colour                     | Material                        | Size | H (mm) | W (mm) | D (mm) | Temp Rating  | Description                      |
|--------------|-----------|----------------------------|---------------------------------|------|--------|--------|--------|--------------|----------------------------------|
| DED011       | IP65      | Ral 7035/ Transparent Door | ABS-HB Body/ Polycarbonate Door |      | 300    | 200    | 130    | -20° to +85° | Lockable, with steel back plate* |
| DED012       |           | Ral 7035/ Transparent Door | ABS-HB Body/ Polycarbonate Door |      | 350    | 250    | 150    | -20° to +85° | Lockable, with steel back plate* |
| DED014       | IP65      | Ral 7035/ Transparent Door | ABS-HB Body/ Polycarbonate Door |      | 400    | 300    | 170    | -20° to +85° | Lockable, with steel back plate* |
| DED015       | IP65      | Ral 7035/ Transparent Door | ABS-HB Body/ Polycarbonate Door |      | 400    | 300    | 220    | -20° to +85° | Lockable, with steel back plate* |
| DED016       | IP65      | Ral 7035/ Transparent Door | ABS-HB Body/ Polycarbonate Door |      | 500    | 350    | 190    | -20° to +85° | Lockable, with steel back plate* |
| DED017       | IP65      | Ral 7035/ Transparent Door | ABS-HB Body/ Polycarbonate Door |      | 500    | 400    | 240    | -20° to +85° | Lockable, with steel back plate* |
| DED018       | IP65      | Ral 7035/ Transparent Door | ABS-HB Body/ Polycarbonate Door |      | 600    | 400    | 200    | -20° to +85° | Lockable, with steel back plate* |
| DED020       | IP65      | Ral 7035/ Transparent Door | ABS-HB Body/ Polycarbonate Door |      | 700    | 500    | 250    | -20° to +85° | Lockable, with steel back plate* |

\* Galvanised steel resistant to corrosion

### Kwik Fix Cable Glands

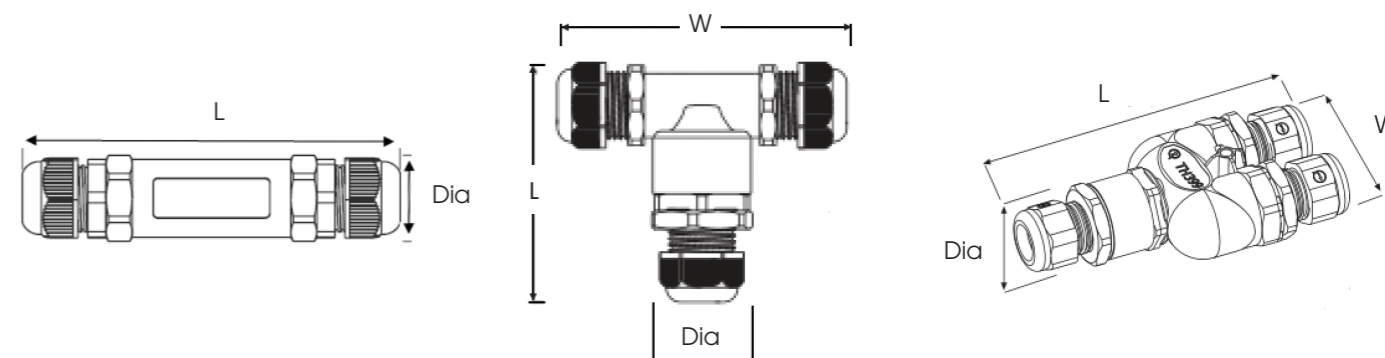


## IP68 TeeTube



### Features:

- Tough, robust construction with large cable range acceptance
- Straight through, T splitter and Y splitter versions available
- Dual terminal versions available for easy fitting and looping of conductors (2+2 and 3+3 poles)
- Temperature rating of -20° to +125°



### Standard Series

| Product Code | IP Rating  | Poles | Colour | Material      | Cable Entries | Insert Type | W (mm) | Dia (mm) | L (mm) | Min - Max Cable Diameter (mm) | Max Conductor Size (mm <sup>2</sup> ) | Max Current (A) | Description   |
|--------------|------------|-------|--------|---------------|---------------|-------------|--------|----------|--------|-------------------------------|---------------------------------------|-----------------|---|
| TTK20BK-SD   | 68 to 5Bar | 3     | Black  | Nylon 66      | 2             | Barrier     | N/A    | 26.5     | 115    | 5 - 13                        | 4                                     | 32              | Standard black 3 pole Teetube supplied complete with mounting kit           |
| TTK20GY-SD   | 68 to 5Bar | 3     | Grey   | Nylon 66      | 2             | Barrier     | N/A    | 26.5     | 115    | 5 - 13                        | 4                                     | 32              | Standard grey 3 pole Teetube supplied complete with mounting kit            |
| TTK20CR-BK   | 68 to 5Bar | 3     | Clear  | Polycarbonate | 2             | Barrier     | N/A    | 26.5     | 115    | 5 - 13                        | 4                                     | 32              | Clear tube, black glands 3 pole Teetube supplied complete with mounting kit |
| TTK25BK-SD   | 68 to 5Bar | 5     | Black  | Nylon 66      | 2             | Barrier     | N/A    | 32       | 130    | 8 - 17                        | 4                                     | 32              | Standard black 5 pole Teetube supplied complete with mounting kit           |
| TTK25GY-SD   | 68 to 5Bar | 5     | Grey   | Nylon 66      | 2             | Barrier     | N/A    | 32       | 130    | 8 - 17                        | 4                                     | 32              | Standard grey 5 pole Teetube supplied complete with mounting kit            |

### TH390 Series

|             |    |   |       |          |   |         |     |    |    |          |   |    |  |
|-------------|----|---|-------|----------|---|---------|-----|----|----|----------|---|----|--|
| THB.390.A1B | 68 | 2 | Black | Nylon 66 | 2 | Barrier | N/A | 30 | 82 | 7 - 13.5 | 4 | 32 | Miniature in-line cable connector            |
| THB.390.A1A | 68 | 3 | Black | Nylon 66 | 2 | Barrier | N/A | 30 | 82 | 7 - 13.5 | 4 | 32 | Miniature in-line cable connector            |
| THB.390.C1B | 68 | 2 | Black | Nylon 66 | 3 | Barrier | 92  | 30 | 73 | 7 - 13.5 | 4 | 32 | T Style Miniature cable splitter / connector |
| THB.390.C1A | 68 | 3 | Black | Nylon 66 | 3 | Barrier | 92  | 30 | 73 | 7 - 13.5 | 4 | 32 | T Style Miniature cable splitter / connector |

### TH391, New Mini Teetube series

|             |              |   |       |          |   |         |  |    |    |      |   |    |  |
|-------------|--------------|---|-------|----------|---|---------|--|----|----|------|---|----|--|
| THB.391.A2A | IP68 to 1bar | 2 | Black | Nylon 66 | 2 | Barrier |  | 23 | 68 | 7-12 | 4 | 32 | Ultra miniature IP68 2 pole inline cable connector |
| THB.391.A3A | IP68 to 1bar | 3 | Black | Nylon 66 | 2 | Barrier |  | 23 | 68 | 7-12 | 4 | 32 | Ultra miniature IP68 3 pole inline cable connector |
| THB.391.A4A | IP68 to 1bar | 4 | Black | Nylon 66 | 2 | Barrier |  | 23 | 68 | 7-12 | 4 | 32 | Ultra miniature IP68 4 pole inline cable connector |

### THB.399 Long Series

|             |    |       |       |          |   |         |    |    |     |           |   |    |   |
|-------------|----|-------|-------|----------|---|---------|----|----|-----|-----------|---|----|---|
| THB.399.A3A | 68 | 3     | Black | Nylon 66 | 3 | Barrier | 63 | 33 | 180 | 7 - 13.5* | 4 | 32 | Y Style Cable splitter / connector, long tube |
| THB.399.A5A | 68 | 5     | Black | Nylon 66 | 3 | Barrier | 63 | 33 | 180 | 7 - 13.5* | 4 | 16 | Y Style Cable splitter / connector, long tube |
| THB.399.A6A | 68 | 6     | Black | Nylon 66 | 3 | Barrier | 63 | 33 | 180 | 7 - 13.5* | 4 | 16 | Y Style Cable splitter / connector, long tube |
| THB.399.A9B | 68 | 3 + 3 | Black | Nylon 66 | 3 | Through | 63 | 33 | 180 | 7 - 13.5* | 4 | 16 | Y Style Cable splitter / connector, long tube |
| THB.399.D3A | 68 | 3     | Black | Nylon 66 | 3 | Barrier | 63 | 33 | 180 | 8 - 17**  | 4 | 32 | Y Style Cable splitter / connector, long tube |
| THB.399.D5A | 68 | 5     | Black | Nylon 66 | 3 | Barrier | 63 | 33 | 180 | 8 - 17**  | 4 | 16 | Y Style Cable splitter / connector, long tube |
| THB.399.D6A | 68 | 6     | Black | Nylon 66 | 3 | Barrier | 63 | 33 | 180 | 8 - 17**  | 4 | 16 | Y Style Cable splitter / connector, long tube |
| THB.399.D9B | 68 | 3 + 3 | Black | Nylon 66 | 3 | Through | 63 | 33 | 180 | 8 - 17**  | 4 | 16 | Y Style Cable splitter / connector, long tube |

\* Was 5mm minimum, but now use accessory 6000087LF for cable ø less than 7mm

\*\* Was 5mm minimum, but now use accessory 6000087LF for cable ø less than 8mm

### THB.399 Short Series

|             |    |   |       |          |   |         |    |    |     |          |     |    |  |
|-------------|----|---|-------|----------|---|---------|----|----|-----|----------|-----|----|--|
| THB.399.E3A | 68 | 3 | Black | Nylon 66 | 3 | Barrier | 63 | 33 | 125 | 7 - 13.5 | 2.5 | 25 | Miniature Y Style Cable splitter / connector |
|-------------|----|---|-------|----------|---|---------|----|----|-----|----------|-----|----|--|

### THB.402 Series

|             |    |     |       |          |   |         |    |         |     |                           |   |    |   |
|-------------|----|-----|-------|----------|---|---------|----|---------|-----|---------------------------|---|----|---|
| THB.402.C1B | 68 | 2   | Black | Nylon 66 | 3 | Barrier | 92 | 26      | 121 | 7 - 13.5                  | 4 | 32 | T Style Cable splitter / connector, long tube                                       |
| THB.402.C1A | 68 | 3   | Black | Nylon 66 | 3 | Barrier | 92 | 26      | 121 | 7 - 13.5                  | 4 | 32 | T Style Cable splitter / connector, long tube                                       |
| THB.402.C2E | 68 | 3+3 | Black | Nylon 66 | 3 | Through | 92 | 26      | 121 | 7 - 13.5                  | 4 | 32 | T Style Cable splitter / connector, long tube                                       |
| THB.402.D1F | 68 | 5   | Black | Nylon 66 | 3 | Barrier | 92 | 26 / 32 | 121 | 7 - 13.5 (2) / 8 - 17 (1) | 4 | 32 | T Style splitter / connector, long tube, 8 - 17mm cable ø, T bar 7 - 13.5mm cable ø |
| THB.402.D1G | 68 | 6   | Black | Nylon 66 | 3 | Barrier | 92 | 26 / 32 | 121 | 7 - 13.5 (2) / 8 - 17 (1) | 4 | 32 | T Style splitter / connector, long tube, 8 - 17mm cable ø, T bar 7 - 13.5mm cable ø |
| THB.402.D2E | 68 | 3+3 | Black | Nylon 66 | 3 | Through | 92 | 26 / 32 | 121 | 7 - 13.5 (2) / 8 - 17 (1) | 4 | 32 | T Style splitter / connector, long tube, 8 - 17mm cable ø, T bar 7 - 13.5mm cable ø |



# Teepugs



### TH405 Series

| Product Code    | Poles | IP Rating | Colour | Material | Ø (mm) | L (mm) |  | Min - Max Cable Diameter (mm) | Max Conductor Size (mm <sup>2</sup> ) | Max Current (A) | Max Voltage (V) | Description                               |
|-----------------|-------|-----------|--------|----------|--------|--------|--|-------------------------------|---------------------------------------|-----------------|-----------------|---|
| THB.405.A2B     | 3     | 68        | Black  | Nylon 66 | 36.5   | 74     |  | 7 - 14                        | 4.0                                   | 25              | 400             | Plug                                      |
| THB.405.A2A     | 5     | 68        | Black  | Nylon 66 | 36.5   | 74     |  | 7 - 14                        | 4.0                                   | 17.5            | 400             | Plug                                      |
| THB.405.A2E     | 6     | 68        | Black  | Nylon 66 | 36.5   | 74     |  | 7 - 14                        | 4.0                                   | 17.5            | 400             | Plug                                      |
| THB.405.B2B     | 3     | 68        | Black  | Nylon 66 | 36.5   | 70     |  | 7 - 14                        | 4.0                                   | 25              | 400             | Socket                                    |
| THB.405.B2A     | 5     | 68        | Black  | Nylon 66 | 36.5   | 70     |  | 7 - 14                        | 4.0                                   | 17.5            | 400             | Socket                                    |
| THB.405.B2E     | 6     | 68        | Black  | Nylon 66 | 36.5   | 70     |  | 7 - 14                        | 4.0                                   | 17.5            | 400             | Socket                                    |
| THB.405.A2B-KIT | 3     | 68        | Black  | Nylon 66 | 36.5   | 130    |  | 7 - 14                        | 4.0                                   | 25              | 400             | Plug & Socket Kit complete with assy tool |
| THB.405.RPKIT   | 5     | 68        | Black  | Nylon 66 | 36.5   | 130    |  | 7 - 14                        | 4.0                                   | 17.5            | 400             | Plug & Socket Kit complete with assy tool |
| 600012200       | 3     |           |        |          |        |        |  |                               |                                       |                 |                 | 3 pole assy tool                          |
| 600009600       | 5     |           |        |          |        |        |  |                               |                                       |                 |                 | 5 pole assy tool                          |
| 6DB00750C       | 6     |           | Black  | Nylon 66 |        |        |  |                               |                                       |                 |                 | Combined 6 pole assy tool and dust cap    |



### TH406 Series - Panel Mount

|             |   |    |       |          |      |    |  |     |     |      |     |   |
|-------------|---|----|-------|----------|------|----|--|-----|-----|------|-----|---|
| THB.406.A1B | 3 | 68 | Black | Nylon 66 | 39.5 | 40 |  | N/A | 4.0 | 25   | 400 | Chassis mounting plug supplied complete with anti vibration locknut. Mates to TH405 series power socket |
| THB.406.A1A | 5 | 68 | Black | Nylon 66 | 39.5 | 40 |  | N/A | 4.0 | 17.5 | 400 | Chassis mounting plug supplied complete with anti vibration locknut. Mates to TH405 series power socket |
| THB.406.A1E | 6 | 68 | Black | Nylon 66 | 39.5 | 40 |  | N/A | 4.0 | 17.5 | 400 | Chassis mounting plug supplied complete with anti vibration locknut. Mates to TH405 series power socket |

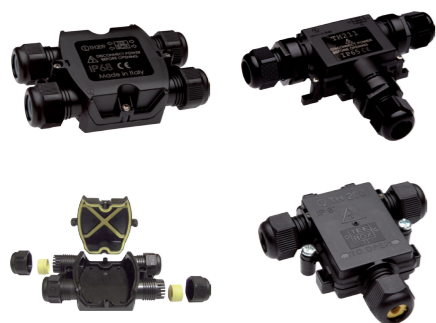
### TH405 Series



### TH387 Series

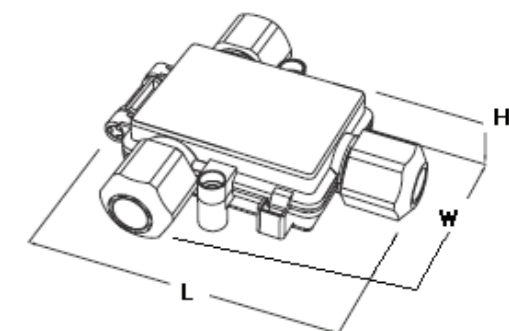
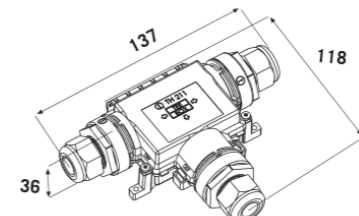
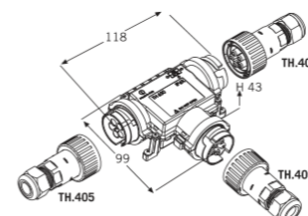
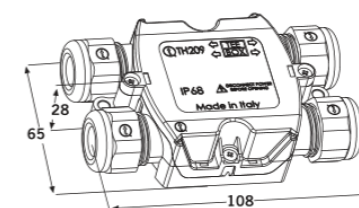
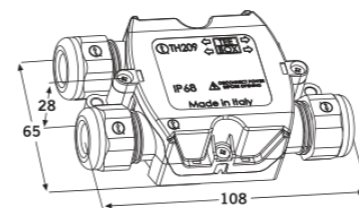
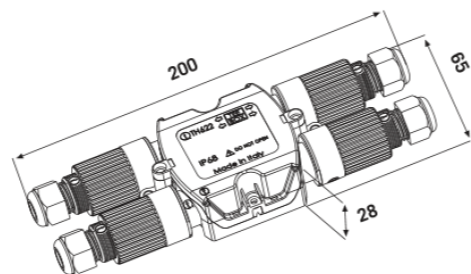


## TeeBox



### Features:

- Comprehensive range of connection options
- Protection rating up to IP68 depending on product
- Unique 3 pole T connector TH029 available for use in TH209 & TH211 range, no cable forming required
- TH211 available as full KIT version complete with TH029 fitted
- Power distribution products available in 3 port (TH630) and 4 port (TH62) versions
- Temperature range of -20° to +125°



### TH110 Series



| Product Code | IP Rating | Poles | Colour  | Material | Cable Entries | Insert Type    | H (mm) | W (mm) | L (mm) | Min - Max Cable Diameter (mm) | Max Conductor Size (mm <sup>2</sup> ) | Max Current (A) | Max Voltage (V) | Description   |
|--------------|-----------|-------|---------|----------|---------------|----------------|--------|--------|--------|-------------------------------|---------------------------------------|-----------------|-----------------|---|
| THB.110.C3B  | 44        | 3     | Natural | Nylon 66 | 2             | Through        | 12.5   | 27     | 75     | Max 9                         | 2.5                                   | 24              | 450             | In-line connector with integrated terminals and cable retention clamps. |
| THB.110.C6B  | 44        | 3     | Natural | Nylon 66 | 2             | Wire Protected | 11.5   | 27     | 75     | Max 9                         | 2.5                                   | 24              | 450             | In-line connector with integrated terminals and cable retention clamps. |

### TH112 Series

|             |    |   |         |          |   |                                     |      |      |      |  |     |      |     |   |
|-------------|----|---|---------|----------|---|-------------------------------------|------|------|------|--|-----|------|-----|---|
| THR.112.A3A | 54 | 3 | Black   | Nylon 66 | 2 | Insulation piercing screw and crimp | 12.6 | 21.2 | 46.3 |  | 1.5 | 17.5 | 450 | Fast fit in-line connector with insulation screw to crimp terminals.  |
| 6000287CA   |    |   | Natural | Nylon 66 | 2 |                                     | 17   | 36   | 75   |  |     |      |     | Screw mount carrier with cable retention clamps for TH112 connectors. |

### TH200 Series



|             |    |   |       |          |   |         |    |    |    |         |     |    |     |   |
|-------------|----|---|-------|----------|---|---------|----|----|----|---------|-----|----|-----|---|
| THK.200.C2E | 67 | 3 | Black | Nylon 66 | 3 | Barrier | 20 | 41 | 82 | 4 - 9.5 | 2.5 | 25 | 450 | T splitter (three cables), includes terminal block and fixing kit |
|-------------|----|---|-------|----------|---|---------|----|----|----|---------|-----|----|-----|---|

### TH209 Series



|                  |    |   |       |          |   |         |    |    |     |        |   |    |     |   |
|------------------|----|---|-------|----------|---|---------|----|----|-----|--------|---|----|-----|---|
| THA.209.A1B      | 54 |   | Black | Nylon 66 | 4 |         | 28 | 65 | 108 | 7 - 14 |   |    |     | Junction box suitable for use directly with terminal block TH032 or with TH026 / TH027 with support plate 6000175CC |
| THA.209.A1A      | 68 |   | Black | Nylon 66 | 4 |         | 28 | 65 | 108 | 7 - 14 |   |    |     |   |
| THA.209.A1A8PKIT | 68 | 8 | Black | Nylon 66 | 4 | Barrier | 28 | 65 | 108 | 7 - 14 | 4 | 32 | 450 | Junction box supplied complete with 8 pole (1x3 and 1x5 pole) connector mounted on support plate                    |
| THA.209.D1B      | 54 |   | Black | Nylon 66 | 3 |         | 28 | 65 | 108 | 7 - 14 |   |    |     | Junction box suitable for use directly with terminal block TH032 or with TH026 / TH027 with support plate 6000175CC |
| THA.209.D1A      | 68 |   | Black | Nylon 66 | 3 |         | 28 | 65 | 108 | 7 - 14 |   |    |     |   |



# TeeBox

### TH211 Series



| Product Code    | IP Rating | Poles | Colour | Material | Cable Entries | Insert Type | H (mm) | W (mm) | L (mm) |  | Min - Max Cable Diameter (mm) | Max Conductor Size (mm <sup>2</sup> ) | Max Current (A) | Max Voltage (V) | Description   |
|-----------------|-----------|-------|--------|----------|---------------|-------------|--------|--------|--------|--|-------------------------------|---------------------------------------|-----------------|-----------------|---|
| THA.211.A1B     | 54        |       | Black  | Nylon 66 | 3             |             | 36     | 118    | 137    |  | 8 - 17                        |                                       |                 |                 | Junction box suitable for use directly with terminal block TH029 or with TH026 / TH027 with support plate 6000194CC |
| THA.211.A1A     | 65        |       | Black  | Nylon 66 | 3             |             | 36     | 118    | 137    |  | 8 - 17                        |                                       |                 |                 |   |
| THA.211.A1A3PTK | 65        | 3     | Black  | Nylon 66 | 3             | Barrier     | 36     | 118    | 137    |  | 8 - 17                        | 4                                     | 32              | 450             | Junction box supplied complete with 3 pole TH029 connector for direct mounting inside unit                          |
| THA.211.D1B     | 54        |       | Black  | Nylon 66 | 3             |             | 36     | 118    | 137    |  | 7 - 13.5                      |                                       |                 |                 | Junction box suitable for use directly with terminal block TH029 or with TH026 / TH027 with support plate 6000194CC |
| THA.211.D1A     | 65        |       | Black  | Nylon 66 | 3             |             | 36     | 118    | 137    |  | 7 - 13.5                      |                                       |                 |                 |   |

### Power Distribution Units



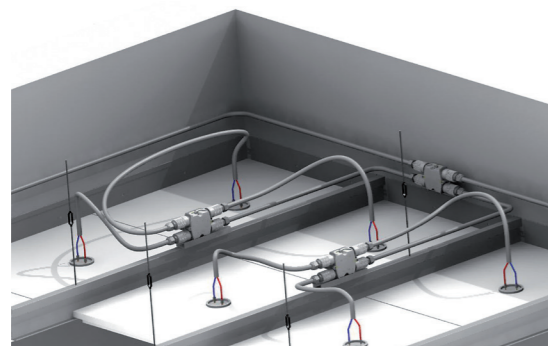
#### TH622/TH623 Series

|             |    |   |       |          |   |  |    |    |     |  |        |     |      |     |   |
|-------------|----|---|-------|----------|---|--|----|----|-----|--|--------|-----|------|-----|---|
| THH.622.L3A | 68 | 3 | Black | Nylon 66 | 4 |  | 28 | 65 | 200 |  | 7 - 12 | 4.0 | 10   | 400 | 3 pole power distribution box, 1x input, 3x output (Four cables). 10A max input. Supplied complete with pre-cabled box and 4 connectors   |
| THH.622.C3A | 54 | 3 | Black | Nylon 66 | 4 |  | 28 | 65 | 200 |  | 7 - 12 | 4.0 | 10   | 400 | 3 pole power distribution box, 1x input, 3x output (Four cables). 10A max input. Supplied complete with pre-cabled box and 4 connectors   |
| THH.623.L3A | 68 | 3 | Black | Nylon 66 | 4 |  | 28 | 65 | 200 |  | 7 - 12 | 4.0 | 17.5 | 400 | 3 pole power distribution box, 1x input, 3x output (Four cables). 17.5A max input. Supplied complete with pre-cabled box and 4 connectors |

#### TH630/TH631 Series



|             |    |   |       |          |   |  |    |    |     |  |        |     |      |     |   |
|-------------|----|---|-------|----------|---|--|----|----|-----|--|--------|-----|------|-----|---|
| THH.630.B3A | 65 | 3 | Black | Nylon 66 | 3 |  | 43 | 99 | 118 |  | 7 - 14 | 4.0 | 10   | 400 | Power distribution box, 1x input, 2x output (Three cables). 10A max input. Supplied complete with pre-cabled box and 3 connectors   |
| THH.630.B5A | 65 | 5 | Black | Nylon 66 | 3 |  | 43 | 99 | 118 |  | 7 - 14 | 4.0 | 10   | 400 | Power distribution box, 1x input, 2x output (Three cables). 10A max input. Supplied complete with pre-cabled box and 3 connectors   |
| THH.630.B6A | 65 | 6 | Black | Nylon 66 | 3 |  | 43 | 99 | 118 |  | 7 - 14 | 4.0 | 10   | 400 | Power distribution box, 1x input, 2x output (Three cables). 10A max input. Supplied complete with pre-cabled box and 3 connectors   |
| THH.631.B3A | 65 | 3 | Black | Nylon 66 | 3 |  | 43 | 99 | 118 |  | 7 - 14 | 4.0 | 25   | 400 | Power distribution box, 1x input, 2x output (Three cables). 25A max input. Supplied complete with pre-cabled box and 3 connectors   |
| THH.631.B5A | 65 | 5 | Black | Nylon 66 | 3 |  | 43 | 99 | 118 |  | 7 - 14 | 4.0 | 17.5 | 400 | Power distribution box, 1x input, 2x output (Three cables). 17.5A max input. Supplied complete with pre-cabled box and 3 connectors |
| THH.631.B6A | 65 | 6 | Black | Nylon 66 | 3 |  | 43 | 99 | 118 |  | 7 - 14 | 4.0 | 17.5 | 400 | Power distribution box, 1x input, 2x output (Three cables). 17.5A max input. Supplied complete with pre-cabled box and 3 connectors |

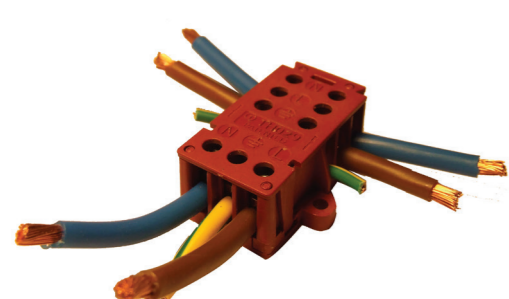


TH622 Series for Plug & Play Lighting Power distribution



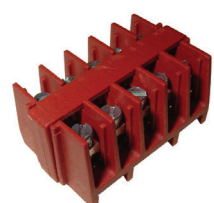
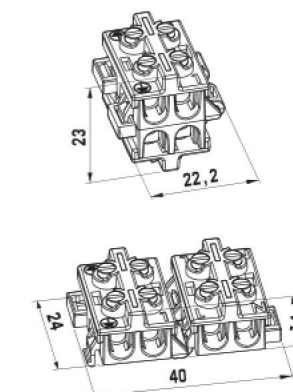
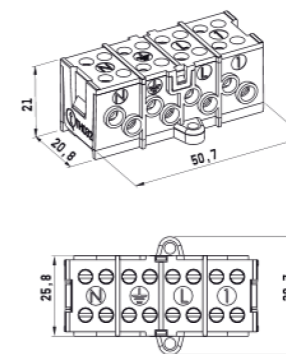
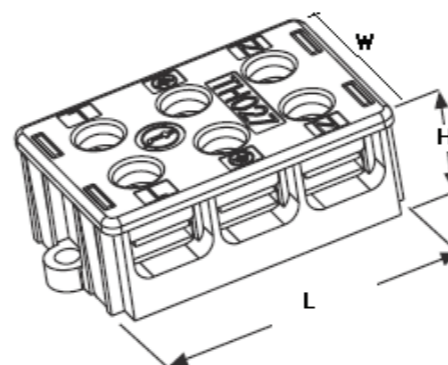
TH200 and TH384 used in HVAC Modular installation and power distribution project.

## TeeBlock



### Features:

- Unique T style connector TH029 saves installation time and effort
- Range includes insulation piercing options
- Large conductor size capability with rising clamp fitting of TH027 enables easier installation
- The 3 and 5 pole options of TH026 gives flexibility of configuration when used with the Teebox
- TH032, 4+4 terminals colour for LED applications



### TH026 Style PA66 FV V0 125°C

| Product Code | Poles | Colour | Material | H (mm) | W (mm) | L (mm) | Insert Type    | Max Conductor Size (mm) <sup>2</sup> | Max Current (A) | Max Voltage (V) | Description  |
|--------------|-------|--------|----------|--------|--------|--------|----------------|--------------------------------------|-----------------|-----------------|--|
| THB.026.A1A  | 5     | Brown  | Nylon 66 | 16.4   | 20.6   | 32     | Through        | 4                                    | 32              | 450             | ENEC approved Terminal block, for use with Teebox style enclosures |
| THB.026.A2A  | 5     | Brown  | Nylon 66 | 16.4   | 20.6   | 32     | Wire Protected | 4                                    | 32              | 450             | ENEC approved Terminal block, for use with Teebox style enclosures |
| THB.026.B1A  | 3     | Brown  | Nylon 66 | 16.4   | 20.6   | 21     | Through        | 4                                    | 32              | 450             | ENEC approved Terminal block, for use with Teebox style enclosures |
| THB.026.B2A  | 3     | Brown  | Nylon 66 | 16.4   | 20.6   | 21     | Wire Protected | 4                                    | 32              | 450             | ENEC approved Terminal block, for use with Teebox style enclosures |



### TH027 Style PA66GF V0 125°C

|             |   |       |            |    |    |      |              |   |    |     |   |
|-------------|---|-------|------------|----|----|------|--------------|---|----|-----|---|
| THB.027.A1A | 3 | Brown | Nylon 66GF | 16 | 29 | 43.5 | Rising Clamp | 6 | 32 | 450 | Heavy duty terminal block, for use with Teebox style enclosures |
|-------------|---|-------|------------|----|----|------|--------------|---|----|-----|---|



### TH029 T Style PA66FV V0 125°C

|             |   |       |          |      |      |      |         |   |    |     |   |
|-------------|---|-------|----------|------|------|------|---------|---|----|-----|---|
| THB.029.A1A | 3 | Brown | Nylon 66 | 15.8 | 20.6 | 38.5 | Barrier | 4 | 32 | 450 | Unique T style terminal block for use with Teebox style enclosures especially TH211 for ease of cabling without forming |
|-------------|---|-------|----------|------|------|------|---------|---|----|-----|---|



### TH032 Style PA66GF V0 125°C

|             |     |       |            |    |      |      |                                     |     |      |     |  |
|-------------|-----|-------|------------|----|------|------|-------------------------------------|-----|------|-----|--|
| THB.032.A4B | 4+4 | Brown | Nylon 66GF | 21 | 20.8 | 50.7 | Barrier                             | 4   | 32   | 450 | Four pole terminal block with two conductor positions per pole on both connecting faces. Suitable for use in TH209 and TH211 TeeBox                    |
| THP.032.A4B | 4+4 | Brown | Nylon 66GF | 21 | 20.8 | 50.7 | Insulation piercing screw & barrier | 1.5 | 17.5 | 450 | Four pole insulation piercing terminal block with two conductor positions per pole on both connecting faces Suitable for use in TH209 and TH211 TeeBox |



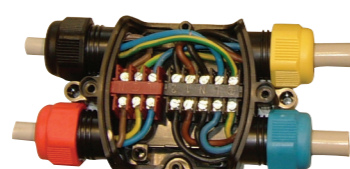
### TH033 Style PA66GF V0 125°C

|             |   |       |            |                               |                                     |     |      |     |  |
|-------------|---|-------|------------|-------------------------------|-------------------------------------|-----|------|-----|--|
| THB.033.A4A | 4 | Brown | Nylon 66GF | See Line Diagrams for details | Through                             | 4   | 32   | 450 | Four pole terminal block in 2x2 pole hinged configuration. Can be mounted independantly or clipped together to use in large (32mm) TeeTube products  |
| THB.033.A4C | 4 | Brown | Nylon 66GF |                               | Wire Protected                      | 2.5 | 32   | 450 | Four pole terminal block in 2x2 pole hinged configuration. Can be mounted independantly or clipped together to use in large (32mm) TeeTube products  |
| THP.033.A4A | 4 | Brown | Nylon 66GF |                               | Insulation piercing screw & barrier | 1.5 | 17.5 | 450 | Four pole terminal block in 2x2 pole hinged configuration. Can be mounted independantly or clipped together to use in large (32mm) TeeTube products. |

## Power Distribution Connectors



TH209 with 3 pole heavy duty connector



TH209 8 Way



TH209 4+4 Way



TH211 Series with T Connector



TH630 with TH405 Connectors



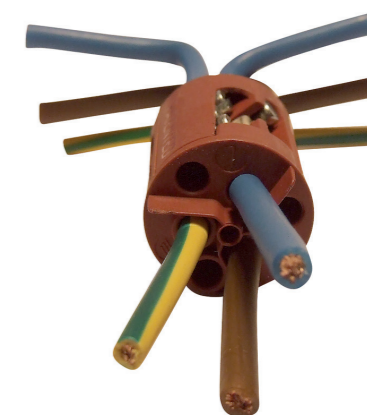
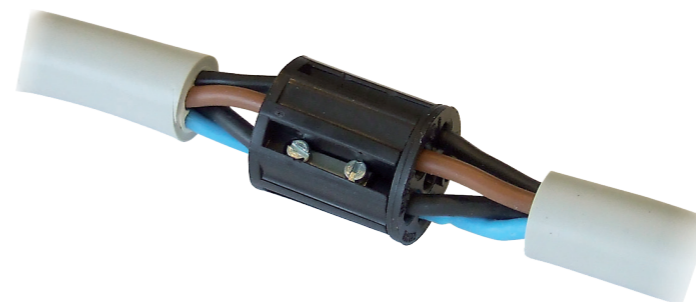
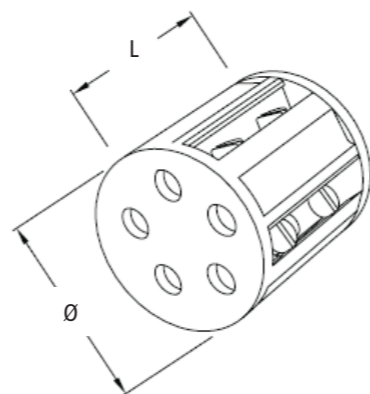
TH622 with TH384 connectors

## TeeDrum



### Features:

- The TeeDrum solution can be used as a stand alone connectors or installed in teetube
- TeeDrum solutions have been designed to guarantee safety and reliability of the connections
- The combination of the TeeDrum & teetube solution offers protection upto IP68
- TH021 is finger safe



Finger Safe



### TeeDrum - Semi Housed

| Product Code | IP Rating | Poles | Colour        | Material | Ø (mm) | L (mm) | Insert Type |  | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Description   |
|--------------|-----------|-------|---------------|----------|--------|--------|-------------|--|-------------------------|-----------------|-----------------|---|
| THB.021.C1A  | 20        | 2     | Black / Brown | Nylon 66 | 22     | 26     | Barrier     |  | 4                       | 32              | 450             | Semi housed Cylindrical terminal block. Suitable for stand-alone use or in conjunction with mounting rail accessories as below  |
| THB.021.A1A  | 20        | 3     | Black         | Nylon 66 | 22     | 26     | Barrier     |  | 4                       | 32              | 450             | Semi housed Cylindrical terminal block. Suitable for stand-alone use or in conjunction with mounting rail accessories as below  |
| THB.021.B1A  | 20        | 5     | Black         | Nylon 66 | 26     | 26     | Barrier     |  | 4                       | 32              | 450             | Semi housed Cylindrical terminal block. Suitable for stand-alone use or in conjunction with mounting rail accessories as below. |



### TeeDrum

|             |    |     |       |          |    |    |         |  |   |    |     |  |
|-------------|----|-----|-------|----------|----|----|---------|--|---|----|-----|--|
| THB.020.A1A | 00 | 3   | Black | Nylon 66 | 18 | 26 | Barrier |  | 4 | 32 | 450 |  |
| THB.020.B1A | 00 | 5   | Black | Nylon 66 | 22 | 26 | Barrier |  | 4 | 32 | 450 |  |
| THD.020.D1A | 00 | 6   | Brown | Nylon 66 | 22 | 26 | Barrier |  | 4 | 32 | 450 |  |
| THB.020.C2A | 00 | 3+3 | Brown | Nylon 66 | 22 | 26 | Through |  | 4 | 32 | 450 | Cylindrical terminal block. 3 Poles with 2 conductor connections per pole. |

### TeeDrum - Semi Housed Mounting Rails

|           |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|--|--|--|--|--|--|--|--|--|--|--|--|
| 6000048KC |  |  |  |  |  |  |  |  |  |  |  |  |
| 6000047KC |  |  |  |  |  |  |  |  |  |  |  |  |



TH390 Series



TH390 Series



TH399 Series



TH399 Mini Series



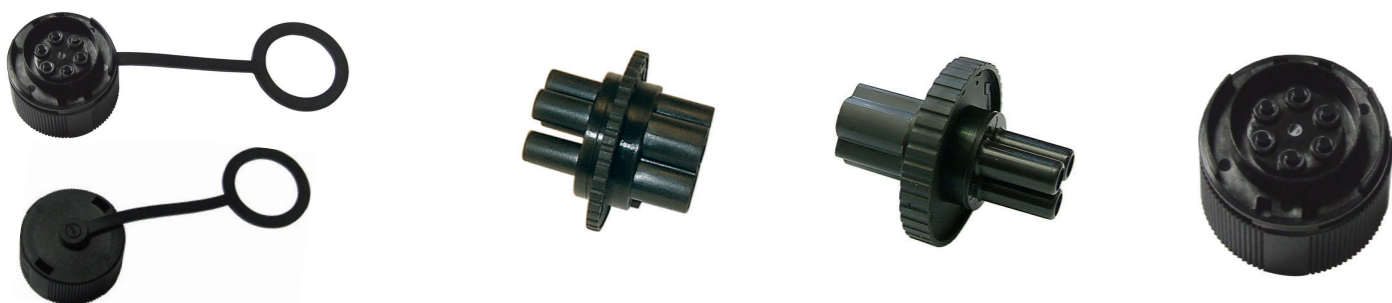
TH402 Series



TTK20 & TTK25 Series



## Weatherproof Range Accessories

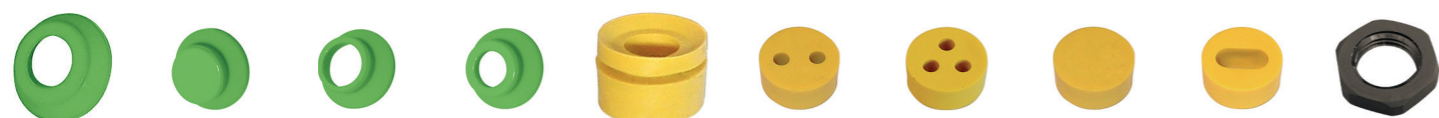


### Weatherproof Range Accessories

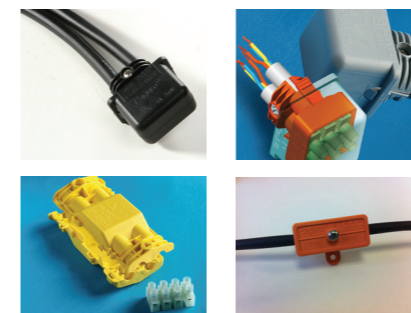
| Product Code | Suitable for product types | Poles | Description  |
|--------------|----------------------------|-------|--|
| 600009600    | TH405                      |       | 5 pole assembly tool   |
| 600012200    | TH405                      |       | 3 pole assembly tool   |
| 6DB00200C    | TH384, TH385, TH386*       |       | Dust Cap c/w silicon strap. *Also acts as a locking tool for TH386, Black                      |
| 6DB00750C    | TH405                      |       | Combined 6 pole assy tool and cap  |
| 6000194CC    | TH209 and TH211            |       | Support plate for use with terminal blocks TH026 or TH027 when mounted in these junction boxes |
| 6000183CC    | TH384, TH385, TH386        |       | Dust cap only  |
| 6DB00900C    | TH405, TH406               |       | Dust cap complete with silicon belt  |
| 6000069CC    | TH405, TH406               |       | Dust cap only  |

### Alternative Inserts For Use With Tee Products

|           |  |                     |   |
|-----------|--|---------------------|---|
| 6DB000800 |  |                     | Double Yellow seal, cable range 5-13.5mm dia    |
| 604001800 |  |                     | Yellow seal, cable range 9-13.5mm dia           |
| 6000087LF | Not for use with TH110, TH112 TH200, TH382 TH384, TH385 TH386, TH388 |                     | Reducing insert cap, Hole dia 9mm               |
| 600012500 |  |                     | 2 Hole Insert, 3.5mm dia                        |
| 600012600 |  |                     | 3 Hole Insert, 3.5mm dia                        |
| 600018200 |  |                     | 4 Hole Insert, 3.5mm dia                        |
| 600013700 |  |                     | Blind insert                                    |
| 6000086MH |  | TH384, TH385, TH386 |   |
| 6000085MM | TH384, TH385, TH386  |                     | Blue Seal single hole for cable dia 6-7.5mm     |
| 6000084MG | TH384, TH385, TH386  |                     | Yellow Seal single hole for cable dia 7.5-9.5mm |
| 6000091MA | TH384, TH385, TH386  |                     | White Seal blanking plug                        |
| 6000114MA | TH384, TH385, TH386  |                     | White Seal 2 hole dia 2mm                       |
| 6000089MA | TH384, TH385, TH386  |                     | White Seal 2 hole dia 3.5mm                     |
| 6000090MA | TH384, TH385, TH386  |                     | White Seal 1 hole dia 2mm                       |
| 6000106MA | TH384, TH385, TH386  |                     | White Seal 3 hole dia 3.5mm                     |
| 6000113MA | TH384, TH385, TH386  |                     | White Seal 4 hole dia 2mm                       |
| 6000040LF | TH384, TH385, TH386  |                     | Green blanking cap                              |
| 6000042LF | TH384, TH385, TH386  |                     | Green reducing adapter, 6mm Dia hole            |
| 6000041LF | TH384, TH385, TH386  |                     | Green reducing adapter, 7.5mm Dia hole          |

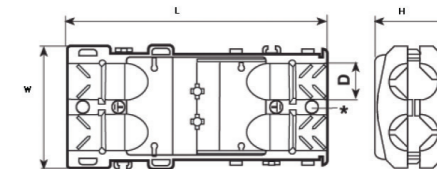


## IP68 Gel Filled Connectors



### Features:

- Patented memory Gel
- Can be rewired without renewal of internal Gel
- IP68 Protection as standard
- Supplied complete with connector
- Ideal for external connection applications
- The products can be buried without moisture ingress problems
- Up to 16 Amp current capability, depending on product.



### 5625 Series

| Product Code  | IP Rating | Poles | Terminal type | Colour | Material    | Cable Entries | H (mm) | W (mm) | L (mm) | Max Cable Diameter (mm) | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) |
|---------------|-----------|-------|---------------|--------|-------------|---------------|--------|--------|--------|-------------------------|-------------------------|-----------------|-----------------|
| 5625/111/1121 | 68        | 3     | Screw         | Orange | Nylon 66-RV | 4             | 24     | 45     | 95     | 6.5 to 12               | 4                       | 16              | 250             |
| 5625/415/1121 | 68        | 4     | Screw         | Orange | Nylon 66-RV | 4             | 24     | 45     | 95     | 6.5 to 12               | 2.5                     | 16              | 250             |

### 5630 Series

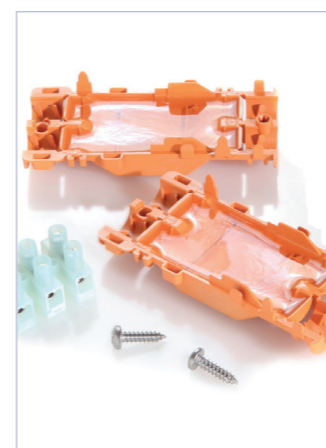
|              |    |   |       |       |             |   |    |    |    |            |     |    |     |
|--------------|----|---|-------|-------|-------------|---|----|----|----|------------|-----|----|-----|
| 5630/111/126 | 68 | 2 | Screw | Black | Nylon 66-RV | 2 | 22 | 37 | 45 | 5.3 to 8.5 | 2.5 | 16 | 250 |
|--------------|----|---|-------|-------|-------------|---|----|----|----|------------|-----|----|-----|

### 5633 Series

|              |    |   |       |      |             |   |    |    |    |         |     |    |     |
|--------------|----|---|-------|------|-------------|---|----|----|----|---------|-----|----|-----|
| 5633/111/186 | 68 | 3 | Screw | Grey | Nylon 66-RV | 2 | 30 | 39 | 45 | 8 to 10 | 2.5 | 16 | 250 |
| 5633/6/86    | 68 | 4 | Screw | Grey | Nylon 66-RV | 2 | 30 | 39 | 45 | 8 to 10 | 2.5 | 16 | 250 |

### 5665 Series

|          |    |   |       |       |             |   |      |    |    |          |     |    |     |
|----------|----|---|-------|-------|-------------|---|------|----|----|----------|-----|----|-----|
| 5665/221 | 68 | 2 | Screw | Black | Nylon 66-RV | 2 | 17.5 | 18 | 40 | 4.8 to 6 | 2.5 | 10 | 250 |
|----------|----|---|-------|-------|-------------|---|------|----|----|----------|-----|----|-----|



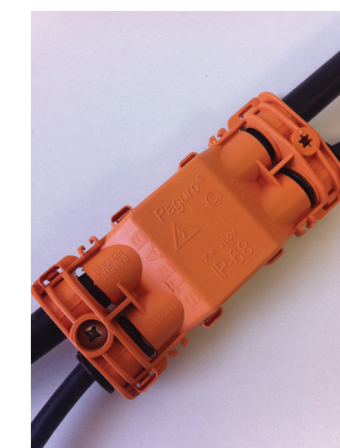
5625 Series



5630 Series



5665 Series



5625 Series



## Metric Brass ATEX Explosion Proof



### Brass Explosion Proof Cable Glands:

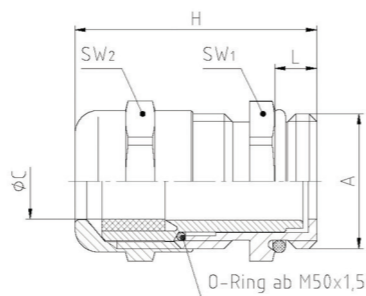
- Brass CuZn39Pb3, nickel-plated
- IP68 to 5bar
- Temperature Rating of -20 to +80C
- Equipment group: II
- Category / Zone: 2G and 2D / 1, 2, 21, 22

### Vibration Damage Reducing:

- Brass CuZn39Pb3, nickel-plated
- IP68
- Temperature Rating of -20 to +80C
- EMC Versions Available

### Accessories Features:

- Brass CuZn39Pb3, nickel-plated
- IP68
- Temperature Rating of -20 to +80C

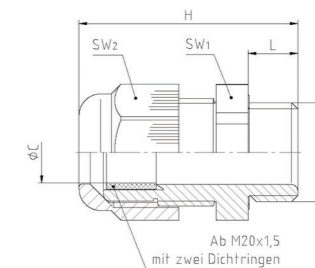


## Metric Nylon ATEX Explosion Proof



### Nylon Explosion Proof Cable Glands:

- Polyamide PA6
- IP66
- Equipment group: II
- Category / Zone: 2G and 2D / 1, 2, 21, 22



### IP68 Brass Explosion Proof Cable Glands

#### IP68 Perfect Nickel Plated Brass Explosion Proof Cable Glands



| Product Code   | Size | H (mm) | L (mm) | ØC (mm) |
|----------------|------|--------|--------|---------|
| 50.612 M/L/EX  | M12  | 30     | 10     | 3-6     |
| 50.616 M/L/EX  | M16  | 34     | 10     | 5-9     |
| 50.620 M/L/EX  | M20  | 37     | 10     | 9-13    |
| 50.625 M/L/EX  | M25  | 40,5   | 11     | 11-16   |
| 50.632 M/L/EX  | M32  | 43     | 13     | 14-21   |
| 50.640 M/L/EX  | M40  | 46     | 13     | 19-27   |
| 50.650 M/L/EX  | M50  | 52,5   | 14     | 24-35   |
| 50.663 M/L/EX  | M63  | 58,5   | 14     | 32-42   |
| 50.663 M1/L/EX | M63  | 58,5   | 14     | 38-48   |

#### IP68 Perfect Emc Nickel Plated Brass Explosion Proof Cable Glands



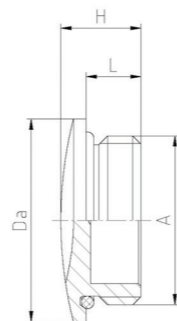
|                  |     |      |    |       |
|------------------|-----|------|----|-------|
| 50.612 M/EMVLEX  | M12 | 30   | 10 | 3-6   |
| 50.616 M/EMVLEX  | M16 | 34   | 10 | 5-9   |
| 50.620 M/EMVLEX  | M20 | 37   | 10 | 9-13  |
| 50.625 M/EMVLEX  | M25 | 40,5 | 11 | 11-16 |
| 50.632 M/EMVLEX  | M32 | 43   | 13 | 14-21 |
| 50.640 M/EMVLEX  | M40 | 46   | 13 | 19-27 |
| 50.650 M/EMVLEX  | M50 | 52,5 | 14 | 24-35 |
| 50.663 M/EMVLEX  | M63 | 58,5 | 14 | 32-42 |
| 50.663 M1/EMVLEX | M63 | 58,5 | 14 | 38-48 |

### Accessories

#### IP68 Nickel Plated Brass EX Screw Plug



| Product Code   | Size | H (mm) | L (mm) |
|----------------|------|--------|--------|
| 10.1215 M/G/EX | M12  | 8      | 5      |
| 10.1615 M/G/EX | M16  | 9      | 6      |
| 10.2015 M/G/EX | M20  | 9,5    | 6,5    |
| 10.2515 M/G/EX | M25  | 11     | 7      |
| 10.3215 M/G/EX | M32  | 12     | 8      |
| 10.4015 M/G/EX | M40  | 12     | 8      |
| 10.5015 M/G/EX | M50  | 15     | 9      |
| 10.6315 M/G/EX | M63  | 16     | 10     |



#### IP66 Perfect Nylon EX-Cable Gland - Black



| Product Code   | Colour  | Size | H (mm) | L (mm) | ØC (mm) | Temp Rating |
|----------------|---------|------|--------|--------|---------|-------------|
| 50.612 PASW/EX | RAL9005 | M12  | 31     | 8      | 4-7     | -30 to +70C |
| 50.616 PASW/EX | RAL9005 | M16  | 35,5   | 8      | 5,5-10  | -30 to +70C |
| 50.620 PASW/EX | RAL9005 | M20  | 37     | 8      | 5,5-13  | -30 to +70C |
| 50.625 PASW/EX | RAL9005 | M25  | 43     | 8      | 8-17    | -30 to +70C |
| 50.632 PASW/EX | RAL9005 | M32  | 50     | 10     | 12-21   | -30 to +70C |
| 50.640 PASW/EX | RAL9005 | M40  | 51     | 10     | 17-28   | -30 to +70C |
| 50.650 PASW/EX | RAL9005 | M50  | 61,5   | 12     | 22-35   | -30 to +70C |
| 50.663 PASW/EX | RAL9005 | M63  | 65,5   | 12     | 27-48   | -30 to +70C |

#### IP66 Perfect Nylon EX-Cable Gland With RAL5015CAP - Black/Blue



|                |                       |     |      |    |        |             |
|----------------|-----------------------|-----|------|----|--------|-------------|
| 50.612 PABL/EX | RAL9005 + RAL5015 Cap | M12 | 31   | 8  | 4-7    | -30 to +70C |
| 50.616 PABL/EX | RAL9005 + RAL5015 Cap | M16 | 35,5 | 8  | 5,5-10 | -30 to +70C |
| 50.620 PABL/EX | RAL9005 + RAL5015 Cap | M20 | 37   | 8  | 5,5-13 | -30 to +70C |
| 50.625 PABL/EX | RAL9005 + RAL5015 Cap | M25 | 43   | 8  | 8-17   | -30 to +70C |
| 50.632 PABL/EX | RAL9005 + RAL5015 Cap | M32 | 50   | 10 | 12-21  | -30 to +70C |
| 50.640 PABL/EX | RAL9005 + RAL5015 Cap | M40 | 51   | 10 | 17-28  | -30 to +70C |
| 50.650 PABL/EX | RAL9005 + RAL5015 Cap | M50 | 61,5 | 12 | 22-35  | -30 to +70C |
| 50.663 PABL/EX | RAL9005 + RAL5015 Cap | M63 | 65,5 | 12 | 27-48  | -30 to +70C |

#### IP66 Perfect Nylon EX-Cable Gland For Low Temperature - Black



|                 |         |     |      |    |        |             |
|-----------------|---------|-----|------|----|--------|-------------|
| 50.612 PASWEXSI | RAL9005 | M12 | 31   | 8  | 4-7    | -50 to +70C |
| 50.616 PASWEXSI | RAL9005 | M16 | 35,5 | 8  | 5,5-10 | -50 to +70C |
| 50.620 PASWEXSI | RAL9005 | M20 | 37   | 8  | 5,5-13 | -50 to +70C |
| 50.625 PASWEXSI | RAL9005 | M25 | 43   | 8  | 8-17   | -50 to +70C |
| 50.632 PASWEXSI | RAL9005 | M32 | 50   | 10 | 12-21  | -50 to +70C |
| 50.640 PASWEXSI | RAL9005 | M40 | 51   | 10 | 17-28  | -50 to +70C |
| 50.650 PASWEXSI | RAL9005 | M50 | 61,5 | 12 | 22-35  | -50 to +70C |
| 50.663 PASWEXSI | RAL9005 | M63 | 65,5 | 12 | 27-48  | -50 to +70C |

#### IP66 Perfect Nylon EX-Cable Gland For Low Temperature With RAL5015CAP - Black/Blue



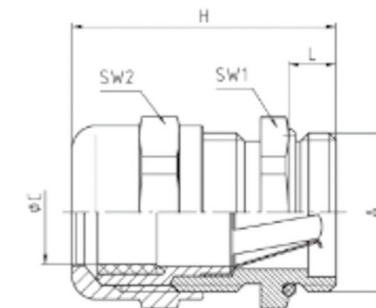
|                 |                       |     |      |    |        |             |
|-----------------|-----------------------|-----|------|----|--------|-------------|
| 50.612 PABLEXSI | RAL9005 + RAL5015 Cap | M12 | 31   | 8  | 4-7    | -50 to +70C |
| 50.616 PABLEXSI | RAL9005 + RAL5015 Cap | M16 | 35,5 | 8  | 5,5-10 | -50 to +70C |
| 50.620 PABLEXSI | RAL9005 + RAL5015 Cap | M20 | 37   | 8  | 5,5-13 | -50 to +70C |
| 50.625 PABLEXSI | RAL9005 + RAL5015 Cap | M25 | 43   | 8  | 8-17   | -50 to +70C |
| 50.632 PABLEXSI | RAL9005 + RAL5015 Cap | M32 | 50   | 10 | 12-21  | -50 to +70C |
| 50.640 PABLEXSI | RAL9005 + RAL5015 Cap | M40 | 51   | 10 | 17-28  | -50 to +70C |
| 50.650 PABLEXSI | RAL9005 + RAL5015 Cap | M50 | 61,5 | 12 | 22-35  | -50 to +70C |
| 50.663 PABLEXSI | RAL9005 + RAL5015 Cap | M63 | 65,5 | 12 | 27-48  | -50 to +70C |

## Perfect Metric Nickel Plated Brass



**Features:**

- Easy to install
- Upto IP 68 protection
- Made From Nickel Plated Brass



### IP68 Perfect Nickel Plated Brass Cable Gland Long Thread



| Part Code   | Size | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|-------------|------|--------|--------|---------|--------------|
| 50.612M-L   | M12  | 30     | 10     | 3-6     | -20 to +100C |
| 50.616M-L   | M16  | 35     | 10     | 5-9     | -20 to +100C |
| 50.620M-L   | M20  | 37,5   | 10     | 9-13    | -20 to +100C |
| 50.625M-L   | M25  | 40,5   | 11     | 11-16   | -20 to +100C |
| 50.632M-L   | M32  | 43     | 13     | 14-21   | -20 to +100C |
| 50.640M-L   | M40  | 46     | 13     | 19-27   | -20 to +100C |
| 50.650M-L   | M50  | 54,5   | 14     | 24-35   | -20 to +100C |
| 50.663M-L   | M63  | 56,5   | 14     | 32-42   | -20 to +100C |
| 50.663 M1-L | M63  | 56,5   | 14     | 38-48   | -20 to +100C |

### IP68 Perfect Nickel Plated Brass with Reducing Insert



| Part Code  | Size | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|------------|------|--------|--------|---------|--------------|
| 50.612 M/R | M12  | 25     | 5      | 2-5     | -20 to +100C |
| 50.616 M/R | M16  | 30     | 5      | 3-9     | -20 to +100C |
| 50.620 M/R | M20  | 33,5   | 6      | 5-13    | -20 to +100C |
| 50.625 M/R | M25  | 36,5   | 7      | 8-16    | -20 to +100C |
| 50.632 M/R | M32  | 38     | 8      | 12-21   | -20 to +100C |
| 50.640 M/R | M40  | 41     | 8      | 16-27   | -20 to +100C |
| 50.650 M/R | M50  | 49,5   | 9      | 21-35   | -20 to +100C |
| 50.663 M/R | M63  | 52,5   | 10     | 27-48   | -20 to +100C |

### IP66 Perfect Nickel Plated Brass Cable Gland for Flat Profile Cable



| Part Code   | Size | H (mm) | L (mm) | ØC (mm)            | Temp Rating  |
|-------------|------|--------|--------|--------------------|--------------|
| 50.620 MFK1 | M20  | 33,5   | 6      | 5x12max, 2x9min    | -20 to +100C |
| 50.625 MFK1 | M25  | 36,5   | 7      | 6x16.3max, 2x11min | -20 to +100C |
| 50.632 MFK1 | M32  | 38     | 8      | 9x20max, 3x13min   | -20 to +100C |
| 50.640 MFK1 | M40  | 41     | 8      | 10x27max, 3x17min  | -20 to +100C |
| 50.650 MFK1 | M50  | 49,5   | 9      | 13x34max, 4x24min  | -20 to +100C |
| 50.663 MFK1 | M63  | 52,5   | 10     | 15x45max, 5x33min  | -20 to +100C |

### IP65 Perfect Nickel Plated Brass Cable Gland For ASI Profile Cable



| Part Code      | Size | H (mm) | L (mm) | ØC (mm)      | Temp Rating  |
|----------------|------|--------|--------|--------------|--------------|
| 50.620 M/ASI/1 | M20  | 33,5   | 6      | 1x ASI cable | -20 to +100C |
| 50.625 M/ASI/1 | M25  | 36,5   | 7      | 1x ASI cable | -20 to +100C |
| 50.620 M/ASI/2 | M20  | 33,5   | 6      | 2x ASI cable | -20 to +100C |
| 50.625 M/ASI/2 | M25  | 36,5   | 7      | 2x ASI cable | -20 to +100C |

### IP68 Long Thread In-Line EMC Shield Version



| Part Code      | Size | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|----------------|------|--------|--------|---------|--------------|
| 50.616 M/EMVDL | M16  | 35     | 10     | 5-9     | -20 to +100C |
| 50.620 M/EMVDL | M20  | 37,5   | 10     | 9-13    | -20 to +100C |
| 50.625 M/EMVDL | M25  | 40,5   | 11     | 11-16   | -20 to +100C |
| 50.632 M/EMVDL | M32  | 43     | 13     | 14-21   | -20 to +100C |
| 50.640 M/EMVDL | M40  | 46     | 13     | 19-27   | -20 to +100C |

### IP68 EMC Shield Version Long Thread



| Part Code       | Size | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|-----------------|------|--------|--------|---------|--------------|
| 50.612 M/EMV/L  | M12  | 30     | 10     | 3-6     | -20 to +100C |
| 50.616 M/EMV/L  | M16  | 35     | 10     | 5-9     | -20 to +100C |
| 50.620 M/EMV/L  | M20  | 37,5   | 10     | 9-13    | -20 to +100C |
| 50.625 M/EMV/L  | M25  | 40,5   | 11     | 11-16   | -20 to +100C |
| 50.632 M/EMV/L  | M32  | 43     | 13     | 14-21   | -20 to +100C |
| 50.640 M/EMV/L  | M40  | 46     | 13     | 19-27   | -20 to +100C |
| 50.650 M/EMV/L  | M50  | 54,5   | 14     | 24-35   | -20 to +100C |
| 50.663 M/EMV/L  | M63  | 56,5   | 14     | 32-42   | -20 to +100C |
| 50.663 M1/EMV/L | M63  | 56,5   | 14     | 38-48   | -20 to +100C |

### IP65 WADI Special Small Cable High Temperature Gland



| Part Code | Size | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|-----------|------|--------|--------|---------|--------------|
| 111005    | M6   | 16,5   | 6      | 2-3.2   | -30 to +100C |
| 111006    | M8   | 19     | 6      | 3-5     | -30 to +100C |
| 111010    | M10  | 19,5   | 6      | 4-6     | -30 to +100C |
| 111072    | M72  | 59,5   | 18     | 53-60   | -30 to +100C |

EMVD Style EMC Gland



## Perfect Metric Nickel Plated Brass

### Kompakt Glands:



#### Features:

- IP55 rated
- Available in Standard or with rubber bushing inside
- Temperature rating of -30c to +100c
- Sizes From M12 - M63

### NPB Gland With Clamping Jaw:



#### Features:

- IP55 rated
- Temperature rating of -30c to +100c
- Sizes From M12 - M63

### NPB Gland With Clamping Jaw:



#### Features:

- IP55 rated
- Available in Standard or with rubber bushing inside
- Pressure Screw also Available
- Sizes From M12 - M40

### Flat Profile Cable Gland:



#### Features:

- IP55 rated
- Temperature rating of -30c to +80c
- Sizes From M12 - M63

## Accessories

### Metric Locknuts



| Part Code | IP Rating | Colour | Material                   | Size | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|-----------|-----------|--------|----------------------------|------|--------|--------|---------|--------------|
| 50.212 M  | N/a       | Silver | Metric Nickel Plated Brass | M12  | 2,8    | N/a    | N/a     | -60 to +200C |
| 50.216 M  | N/a       | Silver | Metric Nickel Plated Brass | M16  | 2,8    | N/a    | N/a     | -60 to +200C |
| 50.220 M  | N/a       | Silver | Metric Nickel Plated Brass | M20  | 3      | N/a    | N/a     | -60 to +200C |
| 50.225 M  | N/a       | Silver | Metric Nickel Plated Brass | M25  | 3,5    | N/a    | N/a     | -60 to +200C |
| 50.232 M  | N/a       | Silver | Metric Nickel Plated Brass | M32  | 4      | N/a    | N/a     | -60 to +200C |
| 50.240 M  | N/a       | Silver | Metric Nickel Plated Brass | M40  | 5      | N/a    | N/a     | -60 to +200C |
| 50.250 M  | N/a       | Silver | Metric Nickel Plated Brass | M50  | 5      | N/a    | N/a     | -60 to +200C |
| 50.263 M  | N/a       | Silver | Metric Nickel Plated Brass | M63  | 6      | N/a    | N/a     | -60 to +200C |

### IP68 Screw Plug With O Ring And Slot Top



|             |      |        |                            |     |     |     |    |              |
|-------------|------|--------|----------------------------|-----|-----|-----|----|--------------|
| 10.1210 M/G | IP68 | Silver | Metric Nickel Plated Brass | M12 | 7,5 | 4,5 | 16 | -30 to +100C |
| 10.1215 M/G | IP68 | Silver | Metric Nickel Plated Brass | M12 | 8   | 5   | 16 | -30 to +100C |
| 10.1615 M/G | IP68 | Silver | Metric Nickel Plated Brass | M16 | 9   | 6   | 20 | -30 to +100C |
| 10.2015 M/G | IP68 | Silver | Metric Nickel Plated Brass | M20 | 9,5 | 6,5 | 24 | -30 to +100C |
| 10.2515 M/G | IP68 | Silver | Metric Nickel Plated Brass | M25 | 11  | 7   | 28 | -30 to +100C |
| 10.3215 M/G | IP68 | Silver | Metric Nickel Plated Brass | M32 | 12  | 8   | 35 | -30 to +100C |
| 10.4015 M/G | IP68 | Silver | Metric Nickel Plated Brass | M40 | 12  | 8   | 45 | -30 to +100C |
| 10.5015 M/G | IP68 | Silver | Metric Nickel Plated Brass | M50 | 15  | 9   | 55 | -30 to +100C |
| 10.6315 M/G | IP68 | Silver | Metric Nickel Plated Brass | M63 | 16  | 10  | 68 | -30 to +100C |

### IP54 Screw Plug With Slot Top



|         |      |        |                            |     |     |     |    |              |
|---------|------|--------|----------------------------|-----|-----|-----|----|--------------|
| 10.1210 | IP54 | Silver | Metric Nickel Plated Brass | M12 | 7,5 | 4,5 | 16 | -60 to +200C |
| 10.1215 | IP54 | Silver | Metric Nickel Plated Brass | M12 | 8   | 5   | 16 | -60 to +200C |
| 10.1615 | IP54 | Silver | Metric Nickel Plated Brass | M16 | 9   | 6   | 20 | -60 to +200C |
| 10.2015 | IP54 | Silver | Metric Nickel Plated Brass | M20 | 9,5 | 6,5 | 24 | -60 to +200C |
| 10.2515 | IP54 | Silver | Metric Nickel Plated Brass | M25 | 11  | 7   | 28 | -60 to +200C |
| 10.3215 | IP54 | Silver | Metric Nickel Plated Brass | M32 | 12  | 8   | 35 | -60 to +200C |
| 10.4015 | IP54 | Silver | Metric Nickel Plated Brass | M40 | 12  | 8   | 45 | -60 to +200C |
| 10.5015 | IP54 | Silver | Metric Nickel Plated Brass | M50 | 15  | 9   | 55 | -60 to +200C |
| 10.6315 | IP54 | Silver | Metric Nickel Plated Brass | M63 | 16  | 10  | 68 | -60 to +200C |

### Enlarger Adapter Metric/Metric



| Part Code | IP Rating | Colour | Material                   | Size    | H (mm) | L (mm) | ØC (mm) | Temp Rating |
|-----------|-----------|--------|----------------------------|---------|--------|--------|---------|-------------|
| M12M16/FR | N/a       | Silver | Metric Nickel Plated Brass | M12/M16 | 16     | 5      | 8       | Bis +200C   |
| M16M20/FR | N/a       | Silver | Metric Nickel Plated Brass | M16/M20 | 16,5   | 5      | 12      | Bis +200C   |
| M20M25/FR | N/a       | Silver | Metric Nickel Plated Brass | M20/M25 | 18,5   | 6      | 15      | Bis +200C   |
| M25M32/FR | N/a       | Silver | Metric Nickel Plated Brass | M25/M32 | 20,5   | 7      | 21      | Bis +200C   |
| M32M40/FR | N/a       | Silver | Metric Nickel Plated Brass | M32/M40 | 23,5   | 8      | 26      | Bis +200C   |
| M40M50/FR | N/a       | Silver | Metric Nickel Plated Brass | M40/M50 | 30     | 8      | 34      | Bis +200C   |
| M50M63/FR | N/a       | Silver | Metric Nickel Plated Brass | M50/M63 | 32,5   | 9      | 44      | Bis +200C   |

### EMC Cutting Locknuts



|             |     |        |                            |     |     |     |     |              |
|-------------|-----|--------|----------------------------|-----|-----|-----|-----|--------------|
| 50.212 MPOT | N/a | Silver | Metric Nickel Plated Brass | M12 | 5,5 | 4,5 | N/a | -60 to +200C |
| 50.216 MPOT | N/a | Silver | Metric Nickel Plated Brass | M16 | 5,5 | 4,5 | N/a | -60 to +200C |
| 50.220 MPOT | N/a | Silver | Metric Nickel Plated Brass | M20 | 5,5 | 4,5 | N/a | -60 to +200C |
| 50.225 MPOT | N/a | Silver | Metric Nickel Plated Brass | M25 | 5,5 | 4,5 | N/a | -60 to +200C |
| 50.232 MPOT | N/a | Silver | Metric Nickel Plated Brass | M32 | 5,5 | 4,5 | N/a | -60 to +200C |
| 50.240 MPOT | N/a | Silver | Metric Nickel Plated Brass | M40 | 6   | 5   | N/a | -60 to +200C |
| 50.250 MPOT | N/a | Silver | Metric Nickel Plated Brass | M50 | 6   | 5   | N/a | -60 to +200C |
| 50.263 MPOT | N/a | Silver | Metric Nickel Plated Brass | M63 | 7   | 6   | N/a | -60 to +200C |

### Multihole Sealing Insert



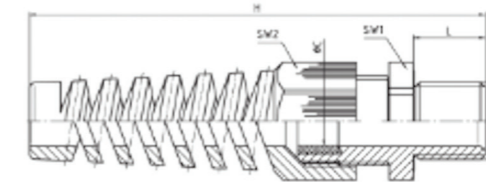
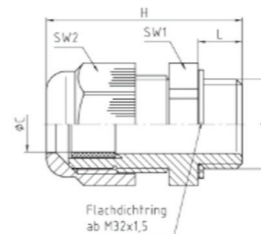
|                |     |     |      |       |      |                |              |
|----------------|-----|-----|------|-------|------|----------------|--------------|
| WJ-DM 12/3x2.3 | M12 | N/a | 6.6  | 3x2.3 | 8.5  | -.30c to +100c | Evoprene TPE |
| WJ-DM 16/2x4.5 | M16 | N/a | 7.6  | 2x4.5 | 11.7 | -.30c to +100c | Evoprene TPE |
| WJ-DM 16/4x2.3 | M16 | N/a | 7.6  | 4x2.3 | 11.7 | -.30c to +100c | Evoprene TPE |
| WJ-DM 20/2x4   | M20 | N/a | 7.5  | 2x4   | 15.1 | -.30c to +100c | Evoprene TPE |
| WJ-DM 20/2x6   | M20 | N/a | 7.5  | 2x6   | 15.1 | -.30c to +100c | Evoprene TPE |
| WJ-DM 20/4x5   | M20 | N/a | 7.5  | 4x5   | 15.1 | -.30c to +100c | Evoprene TPE |
| WJ-DM 25/3x6   | M25 | N/a | 9.3  | 3x6   | 19.8 | -.30c to +100c | Evoprene TPE |
| WJ-DM 25/3x7   | M25 | N/a | 9.3  | 3x7   | 19.8 | -.30c to +100c | Evoprene TPE |
| WJ-DM 25/4x5   | M25 | N/a | 9.3  | 4x5   | 19.8 | -.30c to +100c | Evoprene TPE |
| WJ-DM 25/4x6   | M25 | N/a | 9.3  | 4x6   | 19.8 | -.30c to +100c | Evoprene TPE |
| WJ-DM 32/4x7   | M32 | N/a | 12.5 | 4x7   | 25.1 | -.30c to +100c | Evoprene TPE |
| WJ-DM 32/4x8   | M32 | N/a | 12.5 | 4x8   | 25.1 | -.30c to +100c | Evoprene TPE |

## IP68 Nylon Metric Perfect



### Features:

- Upto IP68 at 5Bar
- Includes PG/ Metric Perfect Range where Sealing range and dome nut dimensions are identical to pg - series
- Reducing cable range versions included
- PA6 V0 Options Available
- Temp Rating of -20C to +100C



### Kwik Fix IP68 Metric Cable Glands

#### Features:

- IP68
- Temp range -20C to +100C
- Quick and easy installation without special tools
- Assemble from one side only - no separate lock nut, saves time so saves money.
- Wall thickness 1-4mm

#### IP68 Metric Perfect Nylon Cable Gland

| Part Code    | Colour        | Material         | Size | H (mm) | ØC (mm) |
|--------------|---------------|------------------|------|--------|---------|
| K341-1016-00 | Grey RAL7035  | Polyamide PA6 V2 | M16  | 38.5   | 5-10    |
| K341-1020-00 | Grey RAL7035  | Polyamide PA6 V2 | M20  | 42.5   | 8-13    |
| K341-1025-00 | Grey RAL7035  | Polyamide PA6 V2 | M25  | 48     | 11-17   |
| K341-1016-01 | Grey RAL7001  | Polyamide PA6 V2 | M16  | 38.5   | 5-10    |
| K341-1020-01 | Grey RAL7001  | Polyamide PA6 V2 | M20  | 42.5   | 8-13    |
| K341-1025-01 | Grey RAL7001  | Polyamide PA6 V2 | M25  | 48     | 11-17   |
| K341-1016-02 | Black RAL9005 | Polyamide PA6 V2 | M16  | 38.5   | 5-10    |
| K341-1020-02 | Black RAL9005 | Polyamide PA6 V2 | M20  | 42.5   | 8-13    |
| K341-1025-02 | Black RAL9005 | Polyamide PA6 V2 | M25  | 48     | 11-17   |

### Venting Elements / Breather Plugs

Waterproof enclosures with high protection grades IP67 or IP68 for outdoor use are not automatically sealed against vapour and humid air. To avoid negative pressure, high humidity and condensation inside the enclosure continuous ventilation and pressure equilibrium is necessary. This protection can be achieved by using a venting element which is quick and easy to install.

The body of the venting element is made from a flameproof polyamide PA6 which contains a high-quality, breathable and watertight PES-membrane. The unit provides a continuous pressure exchange and ventilation between the enclosure and its surroundings whilst ensuring protection against humidity and achieving a high IP rating of up to IP69K.

#### Tech. Spec:

- Typical air flow 90 - 130 ml/min/cm2at Ap = 0,01 bar
- Water entry pressure > 1 bar
- Temperature range -40°C/+100°C
- Protection grade IP66 / IP67 / IP69K

| Part Code    | Colour         | Material | IP rating | Thread size | Thread Length | O/A Length | A/F Dim'n |
|--------------|----------------|----------|-----------|-------------|---------------|------------|-----------|
| JDAE12PA7035 | Grey RAL 7035  | PA6/PES  | Up to 69K | M12         | 10            | 17.8       | 17        |
| JDAE12PA/SW  | Black RAL 9005 | PA6/PES  | Up to 69K | M12         | 10            | 17.8       | 17        |

### IP68 Metric Perfect Nylon Cable Gland

| Part Code     | Colour                | Material  | Size | H (mm) | L (mm) | ØC (mm) |
|---------------|-----------------------|-----------|------|--------|--------|---------|
| 50.612 PA7001 | RAL7001 - Silver Grey | Nylon PA6 | M12  | 31     | 8      | 3-6     |
| 50.616 PA7001 | RAL7001 - Silver Grey | Nylon PA6 | M16  | 35,5   | 8      | 5-10    |
| 50.620 PA7001 | RAL7001 - Silver Grey | Nylon PA6 | M20  | 36     | 8      | 8-13    |
| 50.625 PA7001 | RAL7001 - Silver Grey | Nylon PA6 | M25  | 43     | 8      | 11-17   |
| 50.632 PA7001 | RAL7001 - Silver Grey | Nylon PA6 | M32  | 50     | 10     | 15-21   |
| 50.640 PA7001 | RAL7001 - Silver Grey | Nylon PA6 | M40  | 51     | 10     | 19-28   |
| 50.650 PA7001 | RAL7001 - Silver Grey | Nylon PA6 | M50  | 61,5   | 12     | 27-35   |
| 50.663 PA7001 | RAL7001 - Silver Grey | Nylon PA6 | M63  | 65,5   | 12     | 32-42   |
| 50.612 PA7035 | RAL7035 - Light Grey  | Nylon PA6 | M12  | 31     | 8      | 3-6     |
| 50.616 PA7035 | RAL7035 - Light Grey  | Nylon PA6 | M16  | 35,5   | 8      | 5-10    |
| 50.620 PA7035 | RAL7035 - Light Grey  | Nylon PA6 | M20  | 36     | 8      | 8-13    |
| 50.625 PA7035 | RAL7035 - Light Grey  | Nylon PA6 | M25  | 43     | 8      | 11-17   |
| 50.632 PA7035 | RAL7035 - Light Grey  | Nylon PA6 | M32  | 50     | 10     | 15-21   |
| 50.640 PA7035 | RAL7035 - Light Grey  | Nylon PA6 | M40  | 51     | 10     | 19-28   |
| 50.650 PA7035 | RAL7035 - Light Grey  | Nylon PA6 | M50  | 61,5   | 12     | 27-35   |
| 50.663 PA7035 | RAL7035 - Light Grey  | Nylon PA6 | M63  | 65,5   | 12     | 32-42   |
| 50.612 PA/SW  | RAL9005 - Black       | Nylon PA6 | M12  | 31     | 8      | 3-6     |
| 50.616 PA/SW  | RAL9005 - Black       | Nylon PA6 | M16  | 35,5   | 8      | 5-10    |
| 50.620 PA/SW  | RAL9005 - Black       | Nylon PA6 | M20  | 36     | 8      | 8-13    |
| 50.625 PA/SW  | RAL9005 - Black       | Nylon PA6 | M25  | 43     | 8      | 11-17   |
| 50.632 PA/SW  | RAL9005 - Black       | Nylon PA6 | M32  | 50     | 10     | 15-21   |
| 50.640 PA/SW  | RAL9005 - Black       | Nylon PA6 | M40  | 51     | 10     | 19-28   |
| 50.650 PA/SW  | RAL9005 - Black       | Nylon PA6 | M50  | 61,5   | 12     | 27-35   |
| 50.663 PA/SW  | RAL9005 - Black       | Nylon PA6 | M63  | 65,5   | 12     | 32-42   |



### Krallen Cable Gland:



#### Features:

- IP65 rated
- Polyamide PA6 GF30
- Sizes M12-M40
- Temp Rating of -30C to +100C
- Cable Range 4-6mm to 18-24mm

### Favorit Nylon Cable Glands:



#### Features:

- IP55 rated
- Polyamide PA6 GF30
- Sizes M12-M40
- Temp Rating of -30C to +80C
- Cable Range 5,5-7,5mm to 18-25mm

### Conus Simple & Multiple Sealing Ring



#### Features:

- IP65 rated
- Polyamide PA6 GF30
- Sizes M12 - M63
- Temp Rating of -30C To +80C
- RAL7035

- Simple Sealing ring cable range 6-8mm to 43-44mm
- Multiple sealing ring cable range 4-8mm to 35-45mm

### Metric Nylon Cable Glands For Flat Cable:



#### Features:

- IP55 rated
- Material Polyamide PA6 GF30
- Sizes M25-M63
- Temp Rating of -30C to +80C
- Cable range 5x15mm to 16x45mm

## IP68 Nylon Metric Perfect



IP68 Perfect Nylon Cable Gland With Reducing Insert

| Part Code       | Colour                | Material  | Size | H (mm) | L (mm) | ØC (mm) |
|-----------------|-----------------------|-----------|------|--------|--------|---------|
| 50.612 PA/R     | RAL7001 - Silver Grey | Nylon PA6 | M12  | 31     | 8      | 2-5     |
| 50.616 PA/R     | RAL7001 - Silver Grey | Nylon PA6 | M16  | 35,5   | 8      | 3-10    |
| 50.620 PA/R     | RAL7001 - Silver Grey | Nylon PA6 | M20  | 36     | 8      | 5-13    |
| 50.625 PA/R     | RAL7001 - Silver Grey | Nylon PA6 | M25  | 43     | 8      | 8-17    |
| 50.632 PA/R     | RAL7001 - Silver Grey | Nylon PA6 | M32  | 50     | 10     | 12-21   |
| 50.640 PA/R     | RAL7001 - Silver Grey | Nylon PA6 | M40  | 51     | 10     | 16-28   |
| 50.650 PA/R     | RAL7001 - Silver Grey | Nylon PA6 | M50  | 61,5   | 12     | 21-35   |
| 50.663 PA/R     | RAL7001 - Silver Grey | Nylon PA6 | M63  | 65,5   | 12     | 27-48   |
| 50.612 PA/R7035 | RAL7035 - Light Grey  | Nylon PA6 | M12  | 31     | 8      | 2-5     |
| 50.616 PA/R7035 | RAL7035 - Light Grey  | Nylon PA6 | M16  | 35,5   | 8      | 3-10    |
| 50.620 PA/R7035 | RAL7035 - Light Grey  | Nylon PA6 | M20  | 36     | 8      | 5-13    |
| 50.625 PA/R7035 | RAL7035 - Light Grey  | Nylon PA6 | M25  | 43     | 8      | 8-17    |
| 50.632 PA/R7035 | RAL7035 - Light Grey  | Nylon PA6 | M32  | 50     | 10     | 12-21   |
| 50.640 PA/R7035 | RAL7035 - Light Grey  | Nylon PA6 | M40  | 51     | 10     | 16-28   |
| 50.650 PA/R7035 | RAL7035 - Light Grey  | Nylon PA6 | M50  | 61,5   | 12     | 21-35   |
| 50.663 PA/R7035 | RAL7035 - Light Grey  | Nylon PA6 | M63  | 65,5   | 12     | 27-48   |
| 50.612 PA/RSW   | RAL9005 - Black       | Nylon PA6 | M12  | 31     | 8      | 2-5     |
| 50.616 PA/RSW   | RAL9005 - Black       | Nylon PA6 | M16  | 35,5   | 8      | 3-10    |
| 50.620 PA/RSW   | RAL9005 - Black       | Nylon PA6 | M20  | 36     | 8      | 5-13    |
| 50.625 PA/RSW   | RAL9005 - Black       | Nylon PA6 | M25  | 43     | 8      | 8-17    |
| 50.632 PA/RSW   | RAL9005 - Black       | Nylon PA6 | M32  | 50     | 10     | 12-21   |
| 50.640 PA/RSW   | RAL9005 - Black       | Nylon PA6 | M40  | 51     | 10     | 16-28   |
| 50.650 PA/RSW   | RAL9005 - Black       | Nylon PA6 | M50  | 61,5   | 12     | 21-35   |
| 50.663 PA/RSW   | RAL9005 - Black       | Nylon PA6 | M63  | 65,5   | 12     | 27-48   |

IP66 Perfect Nylon Cable Gland For Flat Profile Cable

|                  |                      |           |     |      |    |                    |
|------------------|----------------------|-----------|-----|------|----|--------------------|
| 50.620 PA7035FK1 | RAL7035 - Light Grey | Nylon PA6 | M20 | 36   | 8  | 5x12max, 2x8min    |
| 50.625 PA7035FK1 | RAL7035 - Light Grey | Nylon PA6 | M25 | 43   | 8  | 6x16.3max, 2x10min |
| 50.632 PA7035FK1 | RAL7035 - Light Grey | Nylon PA6 | M32 | 50   | 10 | 9x20max, 3x12min   |
| 50.640 PA7035FK1 | RAL7035 - Light Grey | Nylon PA6 | M40 | 51   | 10 | 10x27max, 3x19min  |
| 50.650 PA7035FK1 | RAL7035 - Light Grey | Nylon PA6 | M50 | 61,6 | 12 | 13x34max, 4x23min  |
| 50.663 PA7035FK1 | RAL7035 - Light Grey | Nylon PA6 | M63 | 65,5 | 12 | 15x46max, 6x32min  |
| 50.620 PASWFK1   | RAL9005 - Black      | Nylon PA6 | M20 | 36   | 8  | 5x12max, 2x8min    |
| 50.625 PASWFK1   | RAL9005 - Black      | Nylon PA6 | M25 | 43   | 8  | 6x16.3max, 2x10min |
| 50.632 PASWFK1   | RAL9005 - Black      | Nylon PA6 | M32 | 50   | 10 | 9x20max, 3x12min   |
| 50.640 PASWFK1   | RAL9005 - Black      | Nylon PA6 | M40 | 51   | 10 | 10x27max, 3x19min  |
| 50.650 PASWFK1   | RAL9005 - Black      | Nylon PA6 | M50 | 61,6 | 12 | 13x34max, 4x23min  |
| 50.663 PASWFK1   | RAL9005 - Black      | Nylon PA6 | M63 | 65,5 | 12 | 15x46max, 6x32min  |



IP68 Perfect Nylon Cable Gland With Spiral Top Cable Protector

| Part Code      | Colour                | Material  | Size | H (mm) | L (mm) | ØC (mm) |
|----------------|-----------------------|-----------|------|--------|--------|---------|
| 50007M12BSSW   | RAL9005 - Black       | Nylon PA6 | M12  | 63,5   | 8      | 3-6,5   |
| 50011M16BSSW   | RAL9005 - Black       | Nylon PA6 | M16  | 94,5   | 15     | 5-10    |
| 50013M20BSSW   | RAL9005 - Black       | Nylon PA6 | M20  | 101,5  | 11     | 6-12    |
| 50016M20BSSW   | RAL9005 - Black       | Nylon PA6 | M20  | 116    | 15     | 10-14   |
| 50021M25BSSW   | RAL9005 - Black       | Nylon PA6 | M25  | 132,5  | 15     | 13-18   |
| 50007M12PABS   | RAL7001 - Silver Grey | Nylon PA6 | M12  | 63,5   | 8      | 3-6,5   |
| 50011M16PABS   | RAL7001 - Silver Grey | Nylon PA6 | M16  | 94,5   | 15     | 5-10    |
| 50013M20PABS   | RAL7001 - Silver Grey | Nylon PA6 | M20  | 101,5  | 11     | 6-12    |
| 50016M20PABS   | RAL7001 - Silver Grey | Nylon PA6 | M20  | 116    | 15     | 10-14   |
| 50021M25PABS   | RAL7001 - Silver Grey | Nylon PA6 | M25  | 132,5  | 15     | 13-18   |
| 50007M12BS7035 | RAL7035 - Light Grey  | Nylon PA6 | M12  | 63,5   | 8      | 3-6,5   |
| 50011M16BS7035 | RAL7035 - Light Grey  | Nylon PA6 | M16  | 94,5   | 15     | 5-10    |
| 50013M20BS7035 | RAL7035 - Light Grey  | Nylon PA6 | M20  | 101,5  | 11     | 6-12    |
| 50016M20BS7035 | RAL7035 - Light Grey  | Nylon PA6 | M20  | 116    | 15     | 10-14   |
| 50021M25BS7035 | RAL7035 - Light Grey  | Nylon PA6 | M25  | 132,5  | 15     | 13-18   |



## IP68 Nylon Metric Perfect

### Metric Nylon Accessories



#### Features:

- Locknut available in V0 material
- Thread adaptors have a Temperature Range of -30c to +100C
- Flange Locknuts available



#### Locknuts

| Part Code     | Colour               | Size | H (mm) | L (mm) | ØC (mm) | IP Rating | Material | Temperature Rating |
|---------------|----------------------|------|--------|--------|---------|-----------|----------|--------------------|
| 50.212 PA7001 | Ral7001 - Grey       | M12  | 5      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.216 PA7001 | Ral7001 - Grey       | M16  | 5      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.220 PA7001 | Ral7001 - Grey       | M20  | 6      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.225 PA7001 | Ral7001 - Grey       | M25  | 6      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.232 PA7001 | Ral7001 - Grey       | M32  | 7      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.240 PA7001 | Ral7001 - Grey       | M40  | 7      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.250 PA7001 | Ral7001 - Grey       | M50  | 8      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.263 PA7001 | Ral7001 - Grey       | M63  | 8      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.212 PA7035 | Ral7035 - Light Grey | M12  | 5      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.216 PA7035 | Ral7035 - Light Grey | M16  | 5      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.220 PA7035 | Ral7035 - Light Grey | M20  | 6      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.225 PA7035 | Ral7035 - Light Grey | M25  | 6      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.232 PA7035 | Ral7035 - Light Grey | M32  | 7      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.240 PA7035 | Ral7035 - Light Grey | M40  | 7      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.250 PA7035 | Ral7035 - Light Grey | M50  | 8      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.263 PA7035 | Ral7035 - Light Grey | M63  | 8      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.212 PA/SW  | Ral9005 - Black      | M12  | 5      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.216 PA/SW  | Ral9005 - Black      | M16  | 5      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.220 PA/SW  | Ral9005 - Black      | M20  | 6      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.225 PA/SW  | Ral9005 - Black      | M25  | 6      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.232 PA/SW  | Ral9005 - Black      | M32  | 7      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.240 PA/SW  | Ral9005 - Black      | M40  | 7      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.250 PA/SW  | Ral9005 - Black      | M50  | 8      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |
| 50.263 PA/SW  | Ral9005 - Black      | M63  | 8      | N/a    | N/a     | N/a       | PA6 GF30 | -20 to +100C       |



#### Flange Locknuts

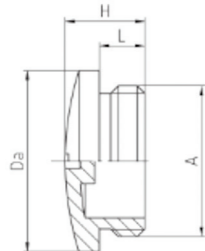
| Part Code  | Colour               | Size | H (mm) | L (mm) | SW (mm) | IP Rating | Material | Temperature Rating |
|------------|----------------------|------|--------|--------|---------|-----------|----------|--------------------|
| DLN16B     | Ral9005 - Black      | M16  | 7      | N/a    | N/a     | N/a       | Nylon 6  |                    |
| DLN20B     | Ral9005 - Black      | M20  | 7      | N/a    | N/a     | N/a       | Nylon 6  |                    |
| DLN25B     | Ral9005 - Black      | M25  | 8      | N/a    | N/a     | N/a       | Nylon 6  |                    |
| DLN16G     | Ral7035 - Light Grey | M16  | 7      | N/a    | N/a     | N/a       | Nylon 6  |                    |
| DLN20G7035 | Ral7035 - Light Grey | M20  | 7      | N/a    | N/a     | N/a       | Nylon 6  |                    |
| DLN25G     | Ral7035 - Light Grey | M25  | 8      | N/a    | N/a     | N/a       | Nylon 6  |                    |
| DLN16W     | Ral9010 - White      | M16  | 7      | N/a    | N/a     | N/a       | Nylon 6  |                    |
| DLN20W     | Ral9010 - White      | M20  | 7      | N/a    | N/a     | N/a       | Nylon 6  |                    |
| DLN20G7001 | Ral7001 - Grey       | M20  | 7      | N/a    | N/a     | N/a       | Nylon 6  |                    |
| DLN20R     | Ral3000 - Flame Red  | M20  | 7      | N/a    | N/a     | N/a       | Nylon 6  |                    |

#### Metric Nylon Reducing Thread Adaptor

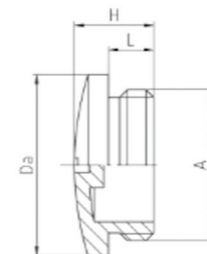
|              |                 |        |    |    |    |     |     |              |
|--------------|-----------------|--------|----|----|----|-----|-----|--------------|
| M16M12 PA/SW | Ral9005 - Black | M16M12 | 12 | 8  | 24 | N/a | PA6 | -30 to +100C |
| M20M12 PA/SW | Ral9005 - Black | M20M12 | 12 | 8  | 24 | N/a | PA6 | -30 to +100C |
| M20M16 PA/SW | Ral9005 - Black | M20M16 | 12 | 8  | 24 | N/a | PA6 | -30 to +100C |
| M25M12 PA/SW | Ral9005 - Black | M25M12 | 14 | 8  | 29 | N/a | PA6 | -30 to +100C |
| M25M16 PA/SW | Ral9005 - Black | M25M16 | 14 | 8  | 29 | N/a | PA6 | -30 to +100C |
| M25M20 PA/SW | Ral9005 - Black | M25M20 | 14 | 8  | 29 | N/a | PA6 | -30 to +100C |
| M32M12 PA/SW | Ral9005 - Black | M32M12 | 16 | 10 | 36 | N/a | PA6 | -30 to +100C |
| M32M16 PA/SW | Ral9005 - Black | M32M16 | 16 | 10 | 36 | N/a | PA6 | -30 to +100C |
| M32M20 PA/SW | Ral9005 - Black | M32M20 | 16 | 10 | 36 | N/a | PA6 | -30 to +100C |
| M32M25 PA/SW | Ral9005 - Black | M32M25 | 16 | 10 | 36 | N/a | PA6 | -30 to +100C |
| M40M16 PA/SW | Ral9005 - Black | M40M16 | 16 | 10 | 46 | N/a | PA6 | -30 to +100C |
| M40M20 PA/SW | Ral9005 - Black | M40M20 | 16 | 10 | 46 | N/a | PA6 | -30 to +100C |
| M40M25 PA/SW | Ral9005 - Black | M40M25 | 16 | 10 | 46 | N/a | PA6 | -30 to +100C |
| M40M32 PA/SW | Ral9005 - Black | M40M32 | 16 | 10 | 55 | N/a | PA6 | -30 to +100C |
| M50M20 PA/SW | Ral9005 - Black | M50M20 | 18 | 12 | 55 | N/a | PA6 | -30 to +100C |
| M50M25 PA/SW | Ral9005 - Black | M50M25 | 18 | 12 | 55 | N/a | PA6 | -30 to +100C |
| M50M32 PA/SW | Ral9005 - Black | M50M32 | 18 | 12 | 55 | N/a | PA6 | -30 to +100C |
| M50M40 PA/SW | Ral9005 - Black | M50M40 | 18 | 12 | 55 | N/a | PA6 | -30 to +100C |
| M63M25 PA/SW | Ral9005 - Black | M63M25 | 18 | 12 | 68 | N/a | PA6 | -30 to +100C |
| M63M32 PA/SW | Ral9005 - Black | M63M32 | 18 | 12 | 68 | N/a | PA6 | -30 to +100C |
| M63M40 PA/SW | Ral9005 - Black | M63M40 | 18 | 12 | 68 | N/a | PA6 | -30 to +100C |
| M63M50 PA/SW | Ral9005 - Black | M63M50 | 18 | 12 | 68 | N/a | PA6 | -30 to +100C |

## IP68 Nylon Metric Perfect

### IP65 Metric Nylon Blanking Plug With Simple Sealing Ring



| Part Code       | Colour               | Size | H (mm) | L (mm) | Da (mm) | IP Rating | Material | Temperature Rating |
|-----------------|----------------------|------|--------|--------|---------|-----------|----------|--------------------|
| 10.1215 PAV     | Ral7001 - Grey       | M12  | 10     | 6      | 15      | IP65      | PA6      | -30 to +100C       |
| 10.1615 PAV     | Ral7001 - Grey       | M16  | 10,5   | 6      | 20      | IP65      | PA6      | -30 to +100C       |
| 10.2015 PAV     | Ral7001 - Grey       | M20  | 10,5   | 6      | 24      | IP65      | PA6      | -30 to +100C       |
| 10.2515 PAV     | Ral7001 - Grey       | M25  | 13     | 8      | 30      | IP65      | PA6      | -30 to +100C       |
| 10.3125 PAV     | Ral7001 - Grey       | M32  | 13,5   | 8      | 37      | IP65      | PA6      | -30 to +100C       |
| 10.4015 PAV     | Ral7001 - Grey       | M40  | 14     | 8      | 46      | IP65      | PA6      | -30 to +100C       |
| 10.5015 PAV     | Ral7001 - Grey       | M50  | 16,5   | 10     | 56      | IP65      | PA6      | -30 to +100C       |
| 10.6315 PAV     | Ral7001 - Grey       | M63  | 17     | 12     | 70      | IP65      | PA6      | -30 to +100C       |
| 10.1215 PAV7035 | Ral7035 - Light Grey | M12  | 10     | 6      | 15      | IP65      | PA6      | -30 to +100C       |
| 10.1615 PAV7035 | Ral7035 - Light Grey | M16  | 10,5   | 6      | 20      | IP65      | PA6      | -30 to +100C       |
| 10.2015 PAV7035 | Ral7035 - Light Grey | M20  | 10,5   | 6      | 24      | IP65      | PA6      | -30 to +100C       |
| 10.2515 PAV7035 | Ral7035 - Light Grey | M25  | 13     | 8      | 30      | IP65      | PA6      | -30 to +100C       |
| 10.3125 PAV7035 | Ral7035 - Light Grey | M32  | 13,5   | 8      | 37      | IP65      | PA6      | -30 to +100C       |
| 10.4015 PAV7035 | Ral7035 - Light Grey | M40  | 14     | 8      | 46      | IP65      | PA6      | -30 to +100C       |
| 10.5015 PAV7035 | Ral7035 - Light Grey | M50  | 16,5   | 10     | 56      | IP65      | PA6      | -30 to +100C       |
| 10.6315 PAV7035 | Ral7035 - Light Grey | M63  | 17     | 12     | 70      | IP65      | PA6      | -30 to +100C       |
| 10.1215 PAVSW   | Ral9005 - Black      | M12  | 10     | 6      | 15      | IP65      | PA6      | -30 to +100C       |
| 10.1615 PAVSW   | Ral9005 - Black      | M16  | 10,5   | 6      | 20      | IP65      | PA6      | -30 to +100C       |
| 10.2015 PAVSW   | Ral9005 - Black      | M20  | 10,5   | 6      | 24      | IP65      | PA6      | -30 to +100C       |
| 10.2515 PAVSW   | Ral9005 - Black      | M25  | 13     | 8      | 30      | IP65      | PA6      | -30 to +100C       |
| 10.3125 PAVSW   | Ral9005 - Black      | M32  | 13,5   | 8      | 37      | IP65      | PA6      | -30 to +100C       |
| 10.4015 PAVSW   | Ral9005 - Black      | M40  | 14     | 8      | 46      | IP65      | PA6      | -30 to +100C       |
| 10.5015 PAVSW   | Ral9005 - Black      | M50  | 16,5   | 10     | 56      | IP65      | PA6      | -30 to +100C       |
| 10.6315 PAVSW   | Ral9005 - Black      | M63  | 17     | 12     | 70      | IP65      | PA6      | -30 to +100C       |



### IP54 Metric Nylon Blanking Plug - No Sealing Ring

| Part Code      | For Use With         | Size | H(mm) | n x Di (mm) | ØC (mm) | IP Rating | Material | Temp Rating  |
|----------------|----------------------|------|-------|-------------|---------|-----------|----------|--------------|
| 10.1215 PA     | Ral7001 - Grey       | M12  | 10    | 6           | 15      | IP54      | PA6      | -30 to +100C |
| 10.1615 PA     | Ral7001 - Grey       | M16  | 10,5  | 6           | 20      | IP54      | PA6      | -30 to +100C |
| 10.2015 PA     | Ral7001 - Grey       | M20  | 10,5  | 6           | 24      | IP54      | PA6      | -30 to +100C |
| 10.2515 PA     | Ral7001 - Grey       | M25  | 13    | 8           | 30      | IP54      | PA6      | -30 to +100C |
| 10.3125 PA     | Ral7001 - Grey       | M32  | 13,5  | 8           | 37      | IP54      | PA6      | -30 to +100C |
| 10.4015 PA     | Ral7001 - Grey       | M40  | 14    | 8           | 46      | IP54      | PA6      | -30 to +100C |
| 10.5015 PA     | Ral7001 - Grey       | M50  | 16,5  | 10          | 56      | IP54      | PA6      | -30 to +100C |
| 10.6315 PA     | Ral7001 - Grey       | M63  | 17    | 12          | 70      | IP54      | PA6      | -30 to +100C |
| 10.1215 PA7035 | Ral7035 - Light Grey | M12  | 10    | 6           | 15      | IP54      | PA6      | -30 to +100C |
| 10.1615 PA7035 | Ral7035 - Light Grey | M16  | 10,5  | 6           | 20      | IP54      | PA6      | -30 to +100C |
| 10.2015 PA7035 | Ral7035 - Light Grey | M20  | 10,5  | 6           | 24      | IP54      | PA6      | -30 to +100C |
| 10.2515 PA7035 | Ral7035 - Light Grey | M25  | 13    | 8           | 30      | IP54      | PA6      | -30 to +100C |
| 10.3125 PA7035 | Ral7035 - Light Grey | M32  | 13,5  | 8           | 37      | IP54      | PA6      | -30 to +100C |
| 10.4015 PA7035 | Ral7035 - Light Grey | M40  | 14    | 8           | 46      | IP54      | PA6      | -30 to +100C |
| 10.5015 PA7035 | Ral7035 - Light Grey | M50  | 16,5  | 10          | 56      | IP54      | PA6      | -30 to +100C |
| 10.6315 PA7035 | Ral7035 - Light Grey | M63  | 17    | 12          | 70      | IP54      | PA6      | -30 to +100C |
| 10.1215 PASW   | Ral9005 - Black      | M12  | 10    | 6           | 15      | IP54      | PA6      | -30 to +100C |
| 10.1615 PASW   | Ral9005 - Black      | M16  | 10,5  | 6           | 20      | IP54      | PA6      | -30 to +100C |
| 10.2015 PASW   | Ral9005 - Black      | M20  | 10,5  | 6           | 24      | IP54      | PA6      | -30 to +100C |
| 10.2515 PASW   | Ral9005 - Black      | M25  | 13    | 8           | 30      | IP54      | PA6      | -30 to +100C |
| 10.3125 PASW   | Ral9005 - Black      | M32  | 13,5  | 8           | 37      | IP54      | PA6      | -30 to +100C |
| 10.4015 PASW   | Ral9005 - Black      | M40  | 14    | 8           | 46      | IP54      | PA6      | -30 to +100C |
| 10.5015 PASW   | Ral9005 - Black      | M50  | 16,5  | 10          | 56      | IP54      | PA6      | -30 to +100C |
| 10.6315 PASW   | Ral9005 - Black      | M63  | 17    | 12          | 70      | IP54      | PA6      | -30 to +100C |

### Multi-Hole Sealing Inserts



|                |   |     |      |       |      |     |              |               |
|----------------|---|-----|------|-------|------|-----|--------------|---------------|
| WJ-DM 12/3x2.3 | Perfect series 50.6xx<br>PAzzzz & Perfect series<br>50.1xx Pazzzz.<br><br>Other sizes and hole<br>configurations also<br>available<br>- please request details. | M12 | 6.6  | 3x2.3 | 8.5  | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 16/2x4.5 |   | M16 | 7.6  | 2x4.5 | 11.7 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 16/4x2.3 |   | M16 | 7.6  | 4x2.3 | 11.7 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 20/2x4   |   | M20 | 7.5  | 2x4   | 15.1 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 20/2x6   |   | M20 | 7.5  | 2x6   | 15.1 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 20/4x5   |   | M20 | 7.5  | 4x5   | 15.1 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 25/3x6   |   | M25 | 9.3  | 3x6   | 19.8 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 25/3x7   |   | M25 | 9.3  | 3x7   | 19.8 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 25/4x5   |   | M25 | 9.3  | 4x5   | 19.8 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 25/4x6   |   | M25 | 9.3  | 4x6   | 19.8 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 32/4x7   |   | M32 | 12.5 | 4x7   | 25.1 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 32/4x8   |   | M32 | 12.5 | 4x8   | 25.1 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 32/4x8.5 |   | M32 | 12.5 | 4x8.5 | 25.1 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 40/5x8.5 |   | M40 | 15   | 5x8.5 | 32.3 | N/a | Evoprene TPE | -30c to +100c |
| WJ-DM 12 STO   |   | M12 | 6.6  |       | 8.5  | N/a | Evoprene TPE | -30c to +100c |

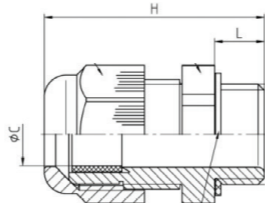


## Perfect Metric Stainless Steel Cable Glands



### Features:

- Stainless Steel
- Integrated anchorage
- Protection against twisting
- Wide sealing & clamping ranges
- Easy to install

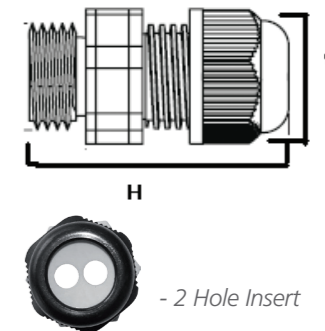


## TeeGlands



### Features:

- One piece Bi-material moulded gland body
- Incorporates cable sealing ring and sealing washer in one unit - No additional gaskets required.
- Saves time on assembly
- Suitable for applications in all major industry sections.
- Moulded sealing material - Grey TPE-V std. Other colours available to order on request



### IP68 Perfect Stainless Steel Cable Gland



| Part Code | Size | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|-----------|------|--------|--------|---------|--------------|
| 50.612 ES | M12  | 25     | 5      | 3-6     | -20 to +100C |
| 50.616 ES | M16  | 30     | 5      | 5-9     | -20 to +100C |
| 50.620 ES | M20  | 33,5   | 6      | 9-13    | -20 to +100C |
| 50.625 ES | M25  | 36,5   | 7      | 11-16   | -20 to +100C |
| 50.632 ES | M32  | 38     | 8      | 14-21   | -20 to +100C |
| 50.640 ES | M40  | 41     | 8      | 19-27   | -20 to +100C |
| 50.650 ES | M50  | 49,5   | 9      | 24-35   | -20 to +100C |
| 50.663 ES | M63  | 52,5   | 10     | 32-42   | -20 to +100C |

### IP68 Perfect EMC Gland Stainless Steel



|               |     |      |   |       |              |
|---------------|-----|------|---|-------|--------------|
| 50.616 ES/EMV | M16 | 30   | 5 | 5-9   | -20 to +100C |
| 50.620 ES/EMV | M20 | 33,5 | 6 | 9-13  | -20 to +100C |
| 50.625 ES/EMV | M25 | 36,5 | 7 | 11-16 | -20 to +100C |
| 50.632 ES/EMV | M32 | 38   | 8 | 14-21 | -20 to +100C |

### IP65 WADI EMC Cable Gland NBR Sealing Insert



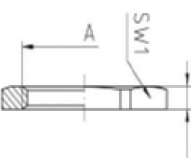
|             |     |    |     |         |              |
|-------------|-----|----|-----|---------|--------------|
| 101011M16ES | M16 | 25 | 6   | 7-11,5  | -30 to +100C |
| 101016M20ES | M20 | 26 | 6   | 8-15    | -30 to +100C |
| 101021M25ES | M25 | 31 | 7,5 | 13-20   | -30 to +100C |
| 101029M32ES | M32 | 32 | 8   | 18-25,5 | -30 to +100C |

### IP65 WADI EMC High Temp Cable Gland Viton Sealing Insert



|             |     |    |     |         |              |
|-------------|-----|----|-----|---------|--------------|
| 101011M16ES | M16 | 25 | 6   | 7-11,5  | -18 to +200C |
| 101016M20ES | M20 | 26 | 6   | 8-15    | -18 to +200C |
| 101021M25ES | M25 | 31 | 7,5 | 13-20   | -18 to +200C |
| 101029M32ES | M32 | 32 | 8   | 18-25,5 | -18 to +200C |

### Stainless Steel Locknut



| Part Code | Size | H (mm) | SW1 (mm) | A (mm)  | Temp Rating |
|-----------|------|--------|----------|---------|-------------|
| 50.212 ES | M12  | 2,8    | 14       | M12x1,5 | Upto +200C  |
| 50.216ES  | M16  | 2,8    | 19       | M16x1,5 | Upto +200C  |
| 50.220ES  | M20  | 3      | 24       | M20x1,5 | Upto +200C  |
| 50.225ES  | M25  | 3,5    | 30       | M25x1,5 | Upto +200C  |
| 50.232ES  | M32  | 4      | 36       | M32x1,5 | Upto +200C  |
| 50.240ES  | M40  | 5      | 46       | M40x1,5 | Upto +200C  |
| 50.250ES  | M50  | 5      | 60       | M50x1,5 | Upto +200C  |
| 50.263ES  | M63  | 6      | 70       | M63x1,5 | Upto +200C  |

### Metric TeeGlands

| Product Code | IP Rating | Colour | Material | H (mm) | Size | Thread Length (mm) | Cable Diameter (mm) |
|--------------|-----------|--------|----------|--------|------|--------------------|---------------------|
| THA.450.A0A  | 68        | Black  | Nylon 66 | 35     | M16  | 8                  | 4 to 7.5            |
| THA.450.A0E  | 68        | Grey   | Nylon 66 | 35     | M16  | 8                  | 4 to 7.5            |
| THA.450.B0A  | 68        | Black  | Nylon 66 | 35     | M16  | 8                  | 7.5 to 9.5          |
| THA.450.B0E  | 68        | Grey   | Nylon 66 | 35     | M16  | 8                  | 7.5 to 9.5          |
| THA.451.A0A  | 68        | Black  | Nylon 66 | 38     | M20  | 8                  | 2x6mm max           |
| THA.451.A0E  | 68        | Grey   | Nylon 66 | 38     | M20  | 8                  | 2x6mm max           |
| THA.451.B0A  | 68        | Black  | Nylon 66 | 38     | M20  | 8                  | 7 to 10.5           |
| THA.451.B0E  | 68        | Grey   | Nylon 66 | 38     | M20  | 8                  | 7 to 10.5           |
| THA.451.B0A  | 68        | Black  | Nylon 66 | 38     | M20  | 8                  | 10.5 to 14          |
| THA.451.B0E  | 68        | Grey   | Nylon 66 | 38     | M20  | 8                  | 10.5 to 14          |
| THA.452.A1A  | 68        | Black  | Nylon 66 | 38     | M25  | 8                  | 2x6mm max           |
| THA.452.A1E  | 68        | Grey   | Nylon 66 | 38     | M25  | 8                  | 2x6mm max           |
| THA.452.B1A  | 68        | Black  | Nylon 66 | 38     | M25  | 8                  | 7 to 10.5           |
| THA.452.B1E  | 68        | Grey   | Nylon 66 | 38     | M25  | 8                  | 7 to 10.5           |
| THA.452.B1A  | 68        | Black  | Nylon 66 | 38     | M25  | 8                  | 10.5 to 14          |
| THA.452.B1E  | 68        | Grey   | Nylon 66 | 38     | M25  | 8                  | 10.5 to 14          |

### Pg TeeGlands

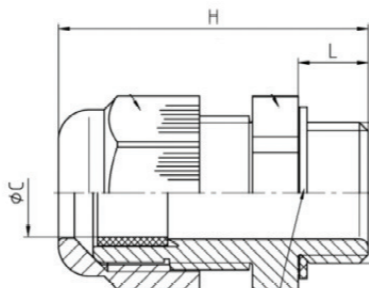
|             |    |       |          |    |        |   |            |
|-------------|----|-------|----------|----|--------|---|------------|
| THA.451.A1A | 68 | Black | Nylon 66 | 35 | PG9    | 8 | 4 to 7.5   |
| THA.451.A1E | 68 | Grey  | Nylon 66 | 35 | PG9    | 8 | 4 to 7.5   |
| THA.451.B1A | 68 | Black | Nylon 66 | 35 | PG9    | 8 | 7.5 to 9.5 |
| THA.451.B1E | 68 | Grey  | Nylon 66 | 35 | PG9    | 8 | 7.5 to 9.5 |
| THA.451.A1A | 68 | Black | Nylon 66 | 38 | PG13.5 | 8 | 2x6mm max  |
| THA.451.A1E | 68 | Grey  | Nylon 66 | 38 | PG13.5 | 8 | 2x6mm max  |
| THA.451.B1A | 68 | Black | Nylon 66 | 38 | PG13.5 | 8 | 7 to 10.5  |
| THA.451.B1E | 68 | Grey  | Nylon 66 | 38 | PG13.5 | 8 | 7 to 10.5  |
| THA.451.B1A | 68 | Black | Nylon 66 | 38 | PG13.5 | 8 | 10.5 to 14 |
| THA.451.B1E | 68 | Grey  | Nylon 66 | 38 | PG13.5 | 8 | 10.5 to 14 |
| THA.452.A2A | 68 | Black | Nylon 66 | 38 | PG16   | 8 | 2x6mm max  |
| THA.452.A2E | 68 | Grey  | Nylon 66 | 38 | PG16   | 8 | 2x6mm max  |
| THA.452.B2A | 68 | Black | Nylon 66 | 38 | PG16   | 8 | 7 to 10.5  |
| THA.452.B2E | 68 | Grey  | Nylon 66 | 38 | PG16   | 8 | 7 to 10.5  |
| THA.452.B2A | 68 | Black | Nylon 66 | 38 | PG16   | 8 | 10.5 to 14 |
| THA.452.B2E | 68 | Grey  | Nylon 66 | 38 | PG16   | 8 | 10.5 to 14 |

## Perfect PG Nickel Plated Brass Cable Glands



### Features:

- PG Nickel Plated Brass
- Easy to install
- 50.0xx range offers protection against twisting and also offers integrated anchorage
- EMC Versions available



### Accessories

#### Features:

- MPOT locknuts allow for equipotential bonding
- Locknuts are Nickel plated brass
- Locknuts have a temperature rating of -60c to 200c
- Sealing rings Are Constructed from Evoprene TPE

#### Brass Hexagonal Locknuts

| Part Code | IP Rating | Size   | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|-----------|-----------|--------|--------|--------|---------|--------------|
| 207M      | N/a       | PG7    | 2,8    | N/a    | N/a     | -60 to +200C |
| 209M      | N/a       | PG9    | 2,8    | N/a    | N/a     | -60 to +200C |
| 211M      | N/a       | PG11   | 3      | N/a    | N/a     | -60 to +200C |
| 213M      | N/a       | PG13,5 | 3      | N/a    | N/a     | -60 to +200C |
| 216M      | N/a       | PG16   | 3      | N/a    | N/a     | -60 to +200C |
| 221M      | N/a       | PG21   | 3,5    | N/a    | N/a     | -60 to +200C |
| 229M      | N/a       | PG29   | 4      | N/a    | N/a     | -60 to +200C |
| 236M      | N/a       | PG36   | 5      | N/a    | N/a     | -60 to +200C |
| 242M      | N/a       | PG42   | 5      | N/a    | N/a     | -60 to +200C |
| 248M      | N/a       | PG48   | 5,5    | N/a    | N/a     | -60 to +200C |



#### IP68 Perfect Nickel Plated Brass Cable Gland

| Part Code | IP Rating | Size    | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|-----------|-----------|---------|--------|--------|---------|--------------|
| 50.007    | IP68      | Pg 7    | 24     | 5      | 3 -6,5  | -20 to +100C |
| 50.009    | IP68      | Pg 9    | 29     | 6      | 4-8     | -20 to +100C |
| 50.011    | IP68      | Pg 11   | 29,5   | 6      | 5-10    | -20 to +100C |
| 50.013    | IP68      | Pg 13,5 | 31,5   | 6,5    | 6-12    | -20 to +100C |
| 50.016    | IP68      | Pg 16   | 31,5   | 6,5    | 10-14   | -20 to +100C |
| 50.021    | IP68      | Pg 21   | 34     | 7      | 13-18   | -20 to +100C |
| 50.029    | IP68      | Pg 29   | 39     | 8      | 18-25   | -20 to +100C |
| 50.036    | IP68      | Pg 36   | 45     | 9      | 24-32   | -20 to +100C |
| 50.042    | IP68      | Pg 42   | 49     | 10     | 30-38   | -20 to +100C |
| 50.048    | IP68      | Pg 48   | 52     | 10     | 34-44   | -20 to +100C |



#### IP68 Perfect Nickel Plated Reducing Brass Cable Gland

|          |      |         |      |     |        |              |
|----------|------|---------|------|-----|--------|--------------|
| 50.007 R | IP68 | Pg 7    | 24   | 5   | 2 -5   | -20 to +100C |
| 50.009 R | IP68 | Pg 9    | 29   | 6   | 2 -6   | -20 to +100C |
| 50.011 R | IP68 | Pg 11   | 29,5 | 6   | 3 -7   | -20 to +100C |
| 50.013 R | IP68 | Pg 13,5 | 31,5 | 6,5 | 5 -9   | -20 to +100C |
| 50.016 R | IP68 | Pg 16   | 31,5 | 6,5 | 7 -12  | -20 to +100C |
| 50.021 R | IP68 | Pg 21   | 34   | 7   | 9 -16  | -20 to +100C |
| 50.029 R | IP68 | Pg 29   | 39   | 8   | 12 -20 | -20 to +100C |
| 50.036 R | IP68 | Pg 36   | 45   | 9   | 20 -26 | -20 to +100C |



#### IP68 Perfect Nickel Plated Brass Emv Cable Gland

|            |      |         |      |     |        |              |
|------------|------|---------|------|-----|--------|--------------|
| 50.007/EMV | IP68 | Pg 7    | 24   | 5   | 3 -6,5 | -20 to +100C |
| 50.009/EMV | IP68 | Pg 9    | 29   | 6   | 4-8    | -20 to +100C |
| 50.011/EMV | IP68 | Pg 11   | 29,5 | 6   | 5-10   | -20 to +100C |
| 50.013/EMV | IP68 | Pg 13,5 | 31,5 | 6,5 | 6-12   | -20 to +100C |
| 50.016/EMV | IP68 | Pg 16   | 31,5 | 6,5 | 10-14  | -20 to +100C |
| 50.021/EMV | IP68 | Pg 21   | 34   | 7   | 13-18  | -20 to +100C |
| 50.029/EMV | IP68 | Pg 29   | 39   | 8   | 18-25  | -20 to +100C |
| 50.036/EMV | IP68 | Pg 36   | 45   | 9   | 24-32  | -20 to +100C |
| 50.042/EMV | IP68 | Pg 42   | 49   | 10  | 30-38  | -20 to +100C |
| 50.048/EMV | IP68 | Pg 48   | 52   | 10  | 34-44  | -20 to +100C |



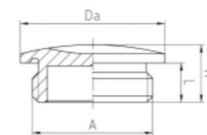
#### Hexagonal Locknuts EMC

|          |     |        |     |     |     |              |
|----------|-----|--------|-----|-----|-----|--------------|
| 207 MPOT | N/a | PG7    | 4,7 | 3,7 | N/a | -60 to +200C |
| 209 MPOT | N/a | PG9    | 4,7 | 3,7 | N/a | -60 to +200C |
| 211 MPOT | N/a | PG11   | 4,7 | 3,7 | N/a | -60 to +200C |
| 213 MPOT | N/a | PG13,5 | 4,7 | 3,7 | N/a | -60 to +200C |
| 216 MPOT | N/a | PG16   | 4,7 | 3,7 | N/a | -60 to +200C |
| 221 MPOT | N/a | PG21   | 5,2 | 4,2 | N/a | -60 to +200C |
| 229 MPOT | N/a | PG29   | 5,7 | 4,7 | N/a | -60 to +200C |
| 236 MPOT | N/a | PG36   | 6   | 5   | N/a | -60 to +200C |
| 242 MPOT | N/a | PG42   | 6   | 5   | N/a | -60 to +200C |
| 248 MPOT | N/a | PG48   | 6,5 | 5,5 | N/a | -60 to +200C |



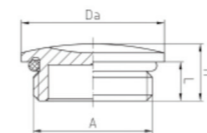
#### IP54 Screw Plug Top With Slot Top Silver Nickel Plated Brass

|        |      |      |     |     |    |              |
|--------|------|------|-----|-----|----|--------------|
| 1007 M | IP54 | PG7  | 6   | 5   | 14 | -60 to +200C |
| 1009 M | IP54 | PG9  | 9   | 6   | 17 | -60 to +200C |
| 1011 M | IP54 | PG11 | 9   | 6   | 20 | -60 to +200C |
| 1013 M | IP54 | PG13 | 9,5 | 6,5 | 22 | -60 to +200C |
| 1016 M | IP54 | PG16 | 9,5 | 6,5 | 24 | -60 to +200C |
| 1021 M | IP54 | PG21 | 11  | 7   | 30 | -60 to +200C |
| 1029 M | IP54 | PG29 | 12  | 8   | 39 | -60 to +200C |
| 1036 M | IP54 | PG36 | 15  | 9   | 50 | -60 to +200C |
| 1042 M | IP54 | PG42 | 16  | 10  | 57 | -60 to +200C |
| 1048 M | IP54 | PG48 | 16  | 10  | 64 | -60 to +200C |



#### IP68 Screw Plug With O Ring And Slot Top

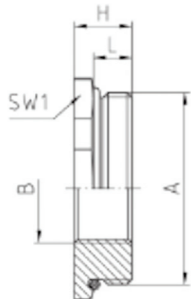
|          |      |      |    |     |    |              |
|----------|------|------|----|-----|----|--------------|
| 1007 M/G | IP68 | PG7  | 7  | 4,5 | 16 | -30 to +100C |
| 1009 M/G | IP68 | PG9  | 8  | 4,5 | 19 | -30 to +100C |
| 1011 M/G | IP68 | PG11 | 8  | 4,5 | 22 | -30 to +100C |
| 1013 M/G | IP68 | PG13 | 10 | 6   | 24 | -30 to +100C |
| 1016 M/G | IP68 | PG16 | 10 | 6   | 26 | -30 to +100C |
| 1021 M/G | IP68 | PG21 | 10 | 6,5 | 32 | -30 to +100C |
| 1029 M/G | IP68 | PG29 | 12 | 8   | 39 | -30 to +100C |
| 1036 M/G | IP68 | PG36 | 15 | 9   | 50 | -30 to +100C |
| 1042 M/G | IP68 | PG42 | 16 | 10  | 57 | -30 to +100C |
| 1048 M/G | IP68 | PG48 | 16 | 10  | 64 | -30 to +100C |



## Perfect PG Nickel Plated Brass Cable Glands



IP68 Reducing Adaptor With O Ring Seal And Hex Collar



| Part Code | IP Rating | Size     | H (mm) | L (mm) | ØC (mm) | Temp Rating  |
|-----------|-----------|----------|--------|--------|---------|--------------|
| 60907/OM  | IP68      | PG9PG7   | 8,5    | 6      | N/a     | -30 to +100C |
| 61107/OM  | IP68      | PG11PG7  | 8,5    | 6      | N/a     | -30 to +100C |
| 61109/OM  | IP68      | PG11PG9  | 8,5    | 6      | N/a     | -30 to +100C |
| 61307/OM  | IP68      | PG13PG7  | 9,5    | 6,5    | N/a     | -30 to +100C |
| 61309/OM  | IP68      | PG13PG9  | 9,5    | 6,5    | N/a     | -30 to +100C |
| 61311/OM  | IP68      | PG13PG11 | 9,5    | 6,5    | N/a     | -30 to +100C |
| 61607/OM  | IP68      | PG16PG7  | 9,5    | 6,5    | N/a     | -30 to +100C |
| 61609/OM  | IP68      | PG16PG9  | 9,5    | 6,5    | N/a     | -30 to +100C |
| 61611/OM  | IP68      | PG16PG11 | 9,5    | 6,5    | N/a     | -30 to +100C |
| 61613/OM  | IP68      | PG16PG13 | 9,5    | 6,5    | N/a     | -30 to +100C |
| 62111/OM  | IP68      | PG21PG11 | 10     | 7      | N/a     | -30 to +100C |
| 62113/OM  | IP68      | PG21PG13 | 10     | 7      | N/a     | -30 to +100C |
| 62116/OM  | IP68      | PG21PG16 | 10     | 7      | N/a     | -30 to +100C |
| 62916/OM  | IP68      | PG29PG16 | 11,5   | 8      | N/a     | -30 to +100C |
| 62921/OM  | IP68      | PG29PG21 | 11,5   | 8      | N/a     | -30 to +100C |
| 63621/OM  | IP68      | PG36PG21 | 12,5   | 9      | N/a     | -30 to +100C |
| 63629/OM  | IP68      | PG36PG29 | 12,5   | 9      | N/a     | -30 to +100C |
| 64236/OM  | IP68      | PG42PG36 | 14     | 10     | N/a     | -30 to +100C |

Multihole Sealing insert



| Part Code     | For Use With                                  | Size   | IP Rating | H (mm) | n x Di (mm) | ØC (mm)        | Temp Rating    | Material     |
|---------------|---|--------|-----------|--------|-------------|----------------|----------------|--------------|
| WJ-D 9/3x2    | Perfect series 50.0xx & Perfect series 50.1xx | PG9    | N/a       | 7.5    | 3x2         | 10.6           | -.30c to +100c | Evoprene TPE |
| WJ-D 9/3x3.5  |   | PG9    | N/a       | 7.5    | 3x3.5       | 10.6           | -.30c to +100c | Evoprene TPE |
| WJ-D 11/2x5   |   | PG11   | N/a       | 8.5    | 2x5         | 13.3           | -.30c to +100c | Evoprene TPE |
| WJ-D 11/3x3   |   | PG11   | N/a       | 8.5    | 3x3         | 13.3           | -.30c to +100c | Evoprene TPE |
| WJ-D 11/3x4   |   | PG11   | N/a       | 8.5    | 3x4         | 13.3           | -.30c to +100c | Evoprene TPE |
| WJ-D 13/2x5   |   | PG13.5 | N/a       | 8.5    | 2x5         | 15.3           | -.30c to +100c | Evoprene TPE |
| WJ-D 13/2x6   |   | PG13.5 | N/a       | 8.5    | 2x6         | 15.3           | -.30c to +100c | Evoprene TPE |
| WJ-D 13/3x4   |   | PG13.5 | N/a       | 8.5    | 3x4         | 15.3           | -.30c to +100c | Evoprene TPE |
| WJ-D16/3x6    |   | PG16   | N/a       | 9      | 3x6         | 17.4           | -.30c to +100c | Evoprene TPE |
| WJ-D16/3x6.5  |   | PG16   | N/a       | 9      | 3x6.5       | 17.4           | -.30c to +100c | Evoprene TPE |
| WJ-D 16/3x7   |   | PG16   | N/a       | 9      | 3x7         | 17.4           | -.30c to +100c | Evoprene TPE |
| WJ-D 16/4x4   |   | PG16   | N/a       | 9      | 4x4         | 17.4           | -.30c to +100c | Evoprene TPE |
| WJ-D 21/3x7   |   | PG21   | N/a       | 11     | 3x7         | 22.2           | -.30c to +100c | Evoprene TPE |
| WJ-D 21/3x8   |   | PG21   | N/a       | 11     | 3x8         | 22.2           | -.30c to +100c | Evoprene TPE |
| WJ-D 21/4x5   | PG21  | N/a    | 11        | 4x5    | 22.2        | -.30c to +100c | Evoprene TPE   |              |
| WJ-D 21/4x6.5 | PG21  | N/a    | 11        | 4x6.5  | 22.2        | -.30c to +100c | Evoprene TPE   |              |
| WJ-D 29/6x5   | PG29  | N/a    | 13        | 6x5    | 29.8        | -.30c to +100c | Evoprene TPE   |              |
| WJ-D 29/6x7.5 | PG29  | N/a    | 13        | 6x7.5  | 29.8        | -.30c to +100c | Evoprene TPE   |              |

Gland With Clamping Jaw



- Features:**
- IP55
  - Material PG Nickel Plated Brass
  - Temp Rating Of -30°C to 100°C
  - Sizes Ranges PG7 to PG48

Favorit Cable Glands:



- Features:**
- IP55
  - PG Nickel Plated Brass
  - Temp Rating of -30c to +100c
  - Sizes Range PG9 To PG29
  - Also Available With Rubber Bushing

Favorit Pressure Screw



- Features:**
- PG Nickel plated Brass
  - Temp Rating Of -60C to +200C
  - Sizes Range PG9 to PG29

Cable Glands For Flat Cables



- Features:**
- IP55
  - PG Nickel Plated Brass
  - Sizes M25-M63
  - Temp Rating Of -30C to + 80C
  - Sizes Range PG16 to PG48

Kompakt Pressure Screw



- Features:**
- PG Nickel plated Brass
  - Temp Rating Of -60c +200c
  - Sizes Range PG9 to PG29

Kompakt Cable Glands



- Features:**
- IP55
  - PG Nickel Plated Brass
  - Temp Rating Of -30C To +100c
  - Sizes Range PG9 to PG48
  - Also Available With Rubber Bushing

Cable Gland With Bend protection



- Features:**
- IP65
  - PG Nickel plated brass
  - Temp Rating Of -30C to +100C
  - Sizes Range PG9 To PG29

Multiple & Simple Sealing rings



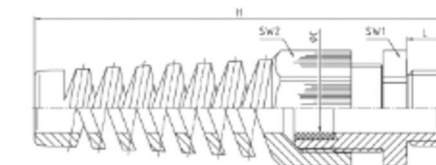
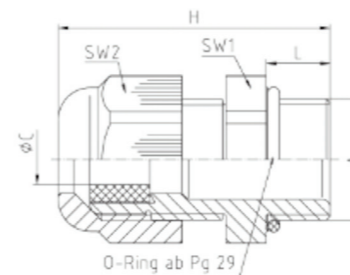
- Features:**
- IP55
  - PG nickel plated brass
  - Temp rating of -30c to +100c
  - Size Range PG9 to PG48

## Perfect PG Nylon Cable Glands



**Features:**

- PG Nylon
- Easy to install
- 50.0xx range offers protection against twisting and also offers integrated anchorage
- Temperature rating -20c to + 100c



**IP68 Pg Perfect Nylon Cable Gland**

| Part Code     | Colour                | Size    | H (mm) | L (mm) | ØC (mm) | Material          |
|---------------|-----------------------|---------|--------|--------|---------|-------------------|
| 50.007 PA     | RAL7001 - Silver Grey | Pg 7    | 30,5   | 8      | 3-6,5   | Polyamide PA6 V-2 |
| 50.009 PA     | RAL7001 - Silver Grey | Pg 9    | 34     | 8      | 4-8     | Polyamide PA6 V-2 |
| 50.011 PA     | RAL7001 - Silver Grey | Pg 11   | 37     | 8      | 5-10    | Polyamide PA6 V-2 |
| 50.013 PA     | RAL7001 - Silver Grey | Pg 13,5 | 39     | 9      | 6-12    | Polyamide PA6 V-2 |
| 50.016 PA     | RAL7001 - Silver Grey | Pg 16   | 42,5   | 10     | 10-14   | Polyamide PA6 V-2 |
| 50.021 PA     | RAL7001 - Silver Grey | Pg 21   | 47,5   | 11     | 13-18   | Polyamide PA6 V-2 |
| 50.029 PA     | RAL7001 - Silver Grey | Pg 29   | 53     | 11     | 18-25   | Polyamide PA6 V-2 |
| 50.036 PA     | RAL7001 - Silver Grey | Pg 36   | 61     | 13     | 22-32   | Polyamide PA6 V-2 |
| 50.042 PA     | RAL7001 - Silver Grey | Pg 42   | 65     | 13     | 30-38   | Polyamide PA6 V-2 |
| 50.048 PA     | RAL7001 - Silver Grey | Pg 48   | 67     | 14     | 34-44   | Polyamide PA6 V-2 |
| 50.007 PA7035 | RAL7035 - Light Grey  | Pg 7    | 30,5   | 8      | 3-6,5   | Polyamide PA6 V-2 |
| 50.009 PA7035 | RAL7035 - Light Grey  | Pg 9    | 34     | 8      | 4-8     | Polyamide PA6 V-2 |
| 50.011 PA7035 | RAL7035 - Light Grey  | Pg 11   | 37     | 8      | 5-10    | Polyamide PA6 V-2 |
| 50.013 PA7035 | RAL7035 - Light Grey  | Pg 13,5 | 39     | 9      | 6-12    | Polyamide PA6 V-2 |
| 50.016 PA7035 | RAL7035 - Light Grey  | Pg 16   | 42,5   | 10     | 10-14   | Polyamide PA6 V-2 |
| 50.021 PA7035 | RAL7035 - Light Grey  | Pg 21   | 47,5   | 11     | 13-18   | Polyamide PA6 V-2 |
| 50.029 PA7035 | RAL7035 - Light Grey  | Pg 29   | 53     | 11     | 18-25   | Polyamide PA6 V-2 |
| 50.036 PA7035 | RAL7035 - Light Grey  | Pg 36   | 61     | 13     | 22-32   | Polyamide PA6 V-2 |
| 50.042 PA7035 | RAL7035 - Light Grey  | Pg 42   | 65     | 13     | 30-38   | Polyamide PA6 V-2 |
| 50.048 PA7035 | RAL7035 - Light Grey  | Pg 48   | 67     | 14     | 34-44   | Polyamide PA6 V-2 |
| 50.007 PA/SW  | RAL9005 - Black       | Pg 7    | 30,5   | 8      | 3-6,5   | Polyamide PA6 V-2 |
| 50.009 PA/SW  | RAL9005 - Black       | Pg 9    | 34     | 8      | 4-8     | Polyamide PA6 V-2 |
| 50.011 PA/SW  | RAL9005 - Black       | Pg 11   | 37     | 8      | 5-10    | Polyamide PA6 V-2 |
| 50.013 PA/SW  | RAL9005 - Black       | Pg 13,5 | 39     | 9      | 6-12    | Polyamide PA6 V-2 |
| 50.016 PA/SW  | RAL9005 - Black       | Pg 16   | 42,5   | 10     | 10-14   | Polyamide PA6 V-2 |
| 50.021 PA/SW  | RAL9005 - Black       | Pg 21   | 47,5   | 11     | 13-18   | Polyamide PA6 V-2 |
| 50.029 PA/SW  | RAL9005 - Black       | Pg 29   | 53     | 11     | 18-25   | Polyamide PA6 V-2 |
| 50.036 PA/SW  | RAL9005 - Black       | Pg 36   | 61     | 13     | 22-32   | Polyamide PA6 V-2 |
| 50.042 PA/SW  | RAL9005 - Black       | Pg 42   | 65     | 13     | 30-38   | Polyamide PA6 V-2 |
| 50.048 PA/SW  | RAL9005 - Black       | Pg 48   | 67     | 14     | 34-44   | Polyamide PA6 V-2 |



**IP68 Perfect Nylon Cable Gland With Spiral Top Cable Protector**

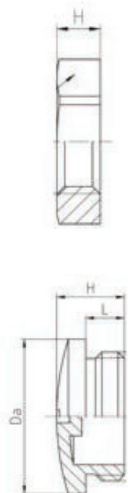
| Part Code     | Colour                | Size    | H (mm) | L (mm) | ØC (mm) | Material          |
|---------------|-----------------------|---------|--------|--------|---------|-------------------|
| 50.007 PA/BS  | RAL7001 - Silver Grey | Pg 7    | 63     | 8      | 3-6,5   | Polyamide PA6 V-2 |
| 50.009 PA/BS  | RAL7001 - Silver Grey | Pg 9    | 74     | 8      | 4-8     | Polyamide PA6 V-2 |
| 50.011 PA/BS  | RAL7001 - Silver Grey | Pg 11   | 87     | 8      | 5-10    | Polyamide PA6 V-2 |
| 50.013 PA/BS  | RAL7001 - Silver Grey | Pg 13,5 | 98     | 9      | 6-12    | Polyamide PA6 V-2 |
| 50.016 PA/BS  | RAL7001 - Silver Grey | Pg 16   | 112    | 10     | 10-14   | Polyamide PA6 V-2 |
| 50.021 PA/BS  | RAL7001 - Silver Grey | Pg 21   | 130    | 11     | 13-18   | Polyamide PA6 V-2 |
| 50.007 PABSSW | RAL9005 - Black       | Pg 7    | 63     | 8      | 3-6,5   | Polyamide PA6 V-2 |
| 50.009 PABSSW | RAL9005 - Black       | Pg 9    | 74     | 8      | 4-8     | Polyamide PA6 V-2 |
| 50.011 PABSSW | RAL9005 - Black       | Pg 11   | 87     | 8      | 5-10    | Polyamide PA6 V-2 |
| 50.013 PABSSW | RAL9005 - Black       | Pg 13,5 | 98     | 9      | 6-12    | Polyamide PA6 V-2 |
| 50.016 PABSSW | RAL9005 - Black       | Pg 16   | 112    | 10     | 10-14   | Polyamide PA6 V-2 |
| 50.021 PABSSW | RAL9005 - Black       | Pg 21   | 130    | 11     | 13-18   | Polyamide PA6 V-2 |
| 50007PABS7035 | RAL7035 - Light Grey  | Pg 7    | 63     | 8      | 3-6,5   | Polyamide PA6 V-2 |
| 50009PABS7035 | RAL7035 - Light Grey  | Pg 9    | 74     | 8      | 4-8     | Polyamide PA6 V-2 |
| 50011PABS7035 | RAL7035 - Light Grey  | Pg 11   | 87     | 8      | 5-10    | Polyamide PA6 V-2 |
| 50013PABS7035 | RAL7035 - Light Grey  | Pg 13,5 | 98     | 9      | 6-12    | Polyamide PA6 V-2 |
| 50016PABS7035 | RAL7035 - Light Grey  | Pg 16   | 112    | 10     | 10-14   | Polyamide PA6 V-2 |
| 50021PABS7035 | RAL7035 - Light Grey  | Pg 21   | 130    | 11     | 13-18   | Polyamide PA6 V-2 |



## Perfect PG Nylon Cable Glands

### Accessories

#### LockNuts



| Part Code | Colour                | Size | IP Rating | H (mm) | L (mm) | ØC (mm) | Temp Rating  | Material |
|-----------|-----------------------|------|-----------|--------|--------|---------|--------------|----------|
| 207 PA    | RAL7001 - Silver Grey | Pg7  | N/a       | 5      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 209 PA    | RAL7001 - Silver Grey | PG9  | N/a       | 5      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 211 PA    | RAL7001 - Silver Grey | PG11 | N/a       | 5      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 213 PA    | RAL7001 - Silver Grey | PG13 | N/a       | 6      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 216 PA    | RAL7001 - Silver Grey | PG16 | N/a       | 6      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 221 PA    | RAL7001 - Silver Grey | PG21 | N/a       | 7      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 229 PA    | RAL7001 - Silver Grey | PG29 | N/a       | 7      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 236 PA    | RAL7001 - Silver Grey | PG36 | N/a       | 8      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 242 PA    | RAL7001 - Silver Grey | PG42 | N/a       | 8      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 248 PA    | RAL7001 - Silver Grey | PG48 | N/a       | 8      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 207 PG    | RAL7035 - Light Grey  | Pg7  | N/a       | 5      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 209 PG    | RAL7035 - Light Grey  | PG9  | N/a       | 5      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 211 PG    | RAL7035 - Light Grey  | PG11 | N/a       | 5      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 213 PG    | RAL7035 - Light Grey  | PG13 | N/a       | 6      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 216 PG    | RAL7035 - Light Grey  | PG16 | N/a       | 6      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 221 PG    | RAL7035 - Light Grey  | PG21 | N/a       | 7      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 229 PG    | RAL7035 - Light Grey  | PG29 | N/a       | 7      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 236 PG    | RAL7035 - Light Grey  | PG36 | N/a       | 8      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 242 PG    | RAL7035 - Light Grey  | PG42 | N/a       | 8      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 248 PG    | RAL7035 - Light Grey  | PG48 | N/a       | 8      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 207 PA/SW | RAL9005 - Black       | Pg7  | N/a       | 5      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 209 PA/SW | RAL9005 - Black       | PG9  | N/a       | 5      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 211 PA/SW | RAL9005 - Black       | PG11 | N/a       | 5      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 213 PA/SW | RAL9005 - Black       | PG13 | N/a       | 6      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 216 PA/SW | RAL9005 - Black       | PG16 | N/a       | 6      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 221 PA/SW | RAL9005 - Black       | PG21 | N/a       | 7      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 229 PA/SW | RAL9005 - Black       | PG29 | N/a       | 7      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 236 PA/SW | RAL9005 - Black       | PG36 | N/a       | 8      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 242 PA/SW | RAL9005 - Black       | PG42 | N/a       | 8      | N/a    | N/a     | -20 to +100C | PA6 GF30 |
| 248 PA/SW | RAL9005 - Black       | PG48 | N/a       | 8      | N/a    | N/a     | -20 to +100C | PA6 GF30 |

#### IP54 Screw Plug



| Part Code | Colour               | Size | IP Rating | H (mm) | L (mm) | Da (mm) | Temp Rating  | Material |
|-----------|----------------------|------|-----------|--------|--------|---------|--------------|----------|
| 1007 PA   | RAL7035 - Light Grey | PG7  | IP54      | 10     | 6      | 15      | -30C to +90C | PA6      |
| 1009 PA   | RAL7035 - Light Grey | PG9  | IP54      | 10     | 6      | 19      | -30C to +90C | PA6      |
| 1011 PA   | RAL7035 - Light Grey | PG11 | IP54      | 10     | 6      | 22      | -30C to +90C | PA6      |
| 1013 PA   | RAL7035 - Light Grey | PG13 | IP54      | 10     | 6      | 25      | -30C to +90C | PA6      |
| 1016 PA   | RAL7035 - Light Grey | PG16 | IP54      | 10     | 6      | 27      | -30C to +90C | PA6      |
| 1021 PA   | RAL7035 - Light Grey | PG21 | IP54      | 12,5   | 8      | 33      | -30C to +90C | PA6      |
| 1029 PA   | RAL7035 - Light Grey | PG29 | IP54      | 13     | 8      | 44,5    | -30C to +90C | PA6      |
| 1036 PA   | RAL7035 - Light Grey | PG36 | IP54      | 15     | 10     | 55,5    | -30C to +90C | PA6      |
| 1042 PA   | RAL7035 - Light Grey | PG42 | IP54      | 15,5   | 10     | 62,5    | -30C to +90C | PA6      |
| 1048 PA   | RAL7035 - Light Grey | PG48 | IP54      | 17     | 12     | 69,5    | -30C to +90C | PA6      |

#### Multihole Sealing Insert



| Part Code     | For Use With   | Size   | IP Rating | H(mm) | n x Di (mm) | ØC (mm) | Temp Rating  | Material     |
|---------------|--|--------|-----------|-------|-------------|---------|--------------|--------------|
| WJ-D 9/3x2    | Perfect series 50.0xx Pazzzz & Perfect series 50.1xx Pazzzz.<br><br>Other sizes and hole configurations also available - please request details. | PG9    | N/a       | 7.5   | 3x2         | 10.6    | -30C to +90C | Evoprene TPE |
| WJ-D 9/3x3.5  |  | PG9    | N/a       | 7.5   | 3x3.5       | 10.6    | -30C to +90C | Evoprene TPE |
| WJ-D 11/2x5   |  | PG11   | N/a       | 8.5   | 2x5         | 13.3    | -30C to +90C | Evoprene TPE |
| WJ-D 11/3x3   |  | PG11   | N/a       | 8.5   | 3x3         | 13.3    | -30C to +90C | Evoprene TPE |
| WJ-D 11/3x4   |  | PG11   | N/a       | 8.5   | 3x4         | 13.3    | -30C to +90C | Evoprene TPE |
| WJ-D 13/2x5   |  | PG13.5 | N/a       | 8.5   | 2x5         | 15.3    | -30C to +90C | Evoprene TPE |
| WJ-D 13/2x6   |  | PG13.5 | N/a       | 8.5   | 2x6         | 15.3    | -30C to +90C | Evoprene TPE |
| WJ-D 13/3x4   |  | PG13.5 | N/a       | 8.5   | 3x4         | 15.3    | -30C to +90C | Evoprene TPE |
| WJ-D16/3x6    |  | PG16   | N/a       | 9     | 3x6         | 17.4    | -30C to +90C | Evoprene TPE |
| WJ-D16/3x6.5  |  | PG16   | N/a       | 9     | 3x6.5       | 17.4    | -30C to +90C | Evoprene TPE |
| WJ-D 16/3x7   |  | PG16   | N/a       | 9     | 3x7         | 17.4    | -30C to +90C | Evoprene TPE |
| WJ-D 16/4x4   |  | PG16   | N/a       | 9     | 4x4         | 17.4    | -30C to +90C | Evoprene TPE |
| WJ-D 21/3x7   |  | PG21   | N/a       | 11    | 3x7         | 22.2    | -30C to +90C | Evoprene TPE |
| WJ-D 21/3x8   |  | PG21   | N/a       | 11    | 3x8         | 22.2    | -30C to +90C | Evoprene TPE |
| WJ-D 21/4x5   |  | PG21   | N/a       | 11    | 4x5         | 22.2    | -30C to +90C | Evoprene TPE |
| WJ-D 21/4x6.5 |  | PG21   | N/a       | 11    | 4x6.5       | 22.2    | -30C to +90C | Evoprene TPE |
| WJ-D 29/6x5   |  | PG29   | N/a       | 13    | 6x5         | 29.8    | -30C to +90C | Evoprene TPE |
| WJ-D 29/6x7.5 |  | PG29   | N/a       | 13    | 6x7.5       | 29.8    | -30C to +90C | Evoprene TPE |

### Other Styles Of Gland Are Available

#### Krallen Cable Gland



#### Features:

- Protection rating IP65
- Temp Rating -30C to +100C
- Sizes Range PG7 to PG29
- Material Polyamide PA6 GF30
- Bend Protection Versions also available
- Ral 7035

#### Conus Cable Gland



#### Features:

- Protection rating IP55
- Temp Rating Of -30 to +80C
- Size range of PG7 to Pg48
- Material Polyamide PA6 GF30
- Multiple sealing ring version also available
- Ral7035

#### UNI Dicht Cable Gland



#### Features:

- Protection rating IP68
- Temp Rating Of -20 +100C
- Size range PG9/11 to PG36
- Material Polyamide PA6
- Ral7035

#### Favorit Cable Gland



#### Features:

- Protection rating IP55
- Temp Rating Of -30C to +80C
- Size Range PG 9 To PG29
- Material Polyamide PA6 GF30
- Ral7035

#### Reducers



#### Features:

- Material PA6 GF30
- Temp Rating '-30C to +100C
- Size Range PG9 to PG48
- RAL7035 & RAL 9005
- Two designs available

#### Enlargers



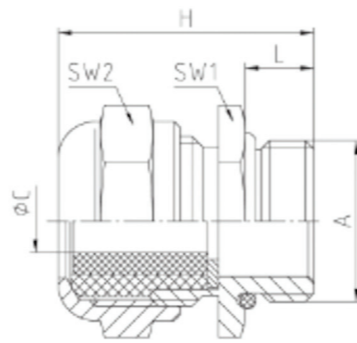
#### Features:

- Material PA6 GF30
- Temp Rating '-30C to +100C
- Size From PG7 To pg42
- Ral7035

## PG Stainless Steel Cable Glands



- Features:**
- Stainless Steel
  - Suitable For high temperature applications
  - Easy to install with a wide sealing range



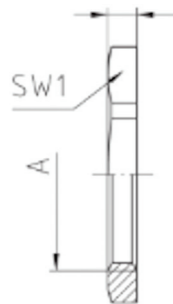
### IP65 WADI EMC With Viton Sealing Insert

| Part Code | Size    | H(mm) | L (mm) | ØC (mm) | Temp Rating  |
|-----------|---------|-------|--------|---------|--------------|
| 129007    | Pg 7    | 22    | 6      | 4-7     | -18 to +200C |
| 129009    | Pg 9    | 23,5  | 6,5    | 5-10    | -18 to +200C |
| 129011    | Pg 11   | 24    | 6      | 7-12    | -18 to +200C |
| 129013    | Pg 13,5 | 27    | 6      | 7-15    | -18 to +200C |
| 129016    | Pg 16   | 27    | 6      | 7-15    | -18 to +200C |
| 129021    | Pg 21   | 30,5  | 7,5    | 9-20    | -18 to +200C |

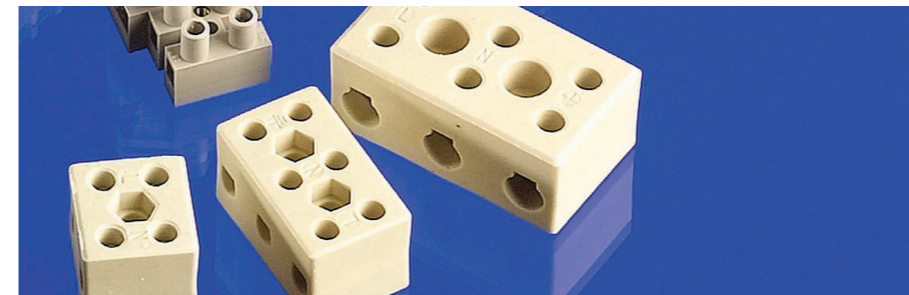


### PG Stainless Steel Locknuts

| Part Code | Size    | H(mm) | SW1 (mm) | ØC (mm) | Temp Rating  |
|-----------|---------|-------|----------|---------|--------------|
| 129207    | Pg 7    | 3     | 14       | N/a     | -60c / +200c |
| 129209    | Pg 9    | 3     | 19       | N/a     | -60c / +200c |
| 129211    | Pg 11   | 3     | 22       | N/a     | -60c / +200c |
| 129213    | Pg 13,5 | 3     | 24       | N/a     | -60c / +200c |
| 129216    | Pg 16   | 3     | 27       | N/a     | -60c / +200c |
| 129221    | Pg 21   | 3,5   | 32       | N/a     | -60c / +200c |
| 129229    | Pg 29   | 4     | 41       | N/a     | -60c / +200c |
| 129236    | Pg 36   | 5     | 50       | N/a     | -60c / +200c |



## Steatite High Temperature Terminal Blocks

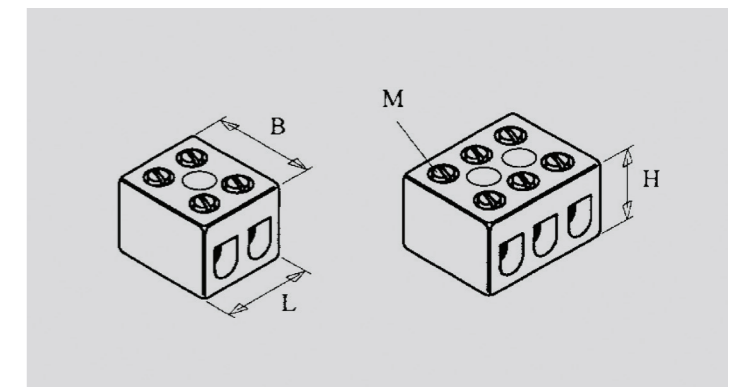


- Features:**
- Chemical Resistance
  - Non-Flammability
  - Heat resistance
  - Dimensional stability up to 1000c
  - Corrosion resistance
  - Temp Rating of -5 to +350
  - Max Voltage 450V

### Steatite Terminal Blocks for high Temperature Applications

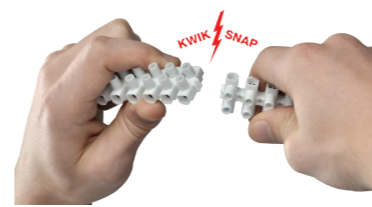
| Product Code | Poles | Colour     | Material | H (mm) | W (mm) | L (mm) | Fixing Holes Dia | Max Conductor size (mm <sup>2</sup> ) | Max current |
|--------------|-------|------------|----------|--------|--------|--------|------------------|---------------------------------------|-------------|
| DESTB-0251   | 1     | Beige/Matt | Steatite | 15.6   | 18     | 10     | N/A              | 4                                     | 24          |
| DESTB-0401   | 1     | Beige/Matt | Steatite | 21     | 22     | 11     | N/A              | 6                                     | 41          |
| DESTB-0252   | 2     | Beige/Matt | Steatite | 15     | 18     | 21     | 5.5              | 2.5                                   | 24          |
| DESTB-0402   | 2     | Beige/Matt | Steatite | 21     | 22     | 24     | 5.5              | 4                                     | 32          |
| DESTB-1002   | 2     | Beige/Matt | Steatite | 23     | 30     | 34     | 5.5              | 6                                     | 57          |
| DESTB-0253   | 3     | Beige/Matt | Steatite | 15     | 18     | 33     | 5.5              | 2.5                                   | 24          |
| DESTB-0403   | 3     | Beige/Matt | Steatite | 21     | 22     | 38     | 5.5              | 4                                     | 32          |
| DESTB-1003   | 3     | Beige/Matt | Steatite | 23     | 30     | 53     | 5.5              | 6                                     | 57          |
| DESTB-0254   | 4     | Beige/Matt | Steatite | 15.6   | 18     | 43     | 4.5              | 4                                     | 24          |
| DESTB-0404   | 4     | Beige/Matt | Steatite | 21     | 22     | 52     | 5.5              | 6                                     | 41          |

### 1-4 Pole Steatite Terminal Block For High Temp. Applications



# Polypropylene and Nylon Pillar Terminal Blocks

Kwik Snap is a new range of Polypropylene terminal blocks that can be 'snapped' into usable pole sizes without tools but with the pole dividers still being capable of supporting fixing screws. Supplied in 24-76 Amp options, these products offer a superior quality with a rapid installation.

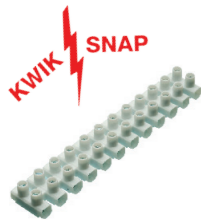


### Features:

- New Kwik Snap range saves time, saves money
- Large diverse range of pillar style terminal blocks available
- Product available in nylon pa66 and no flame, depending on item
- Steel insert products available
- Raised base is standard across range



### VDE Approved Kwik Snap Terminal Blocks In Polypropylene



| Product Code | Colour | Terminal style | Material      | H (mm) | W (mm) | L (mm) | Fixing Hole (mm) | Pitch (mm) | Flammability Rating | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Poles | Temp Rating |
|--------------|--------|----------------|---------------|--------|--------|--------|------------------|------------|---------------------|-------------------------|-----------------|-----------------|-------|-------------|
| HYKS-02412PP | White  | Through hole   | Polypropylene | 12.2   | 17.8   | 93.5   | 3.2              | 8          | 94-V2               | 4.0                     | 24              | 450             | 12    | 85-T110°C   |
| HYKS-03212PP | White  | Through hole   | Polypropylene | 14     | 20     | 116.5  | 3.2              | 10         | 94-V2               | 6.0                     | 32              | 450             | 12    | 85-T110°C   |
| HYKS-05712PP | White  | Through hole   | Polypropylene | 16.3   | 23.4   | 139.3  | 4.0              | 12         | 94-V2               | 10.0                    | 57              | 450             | 12    | 85-T110°C   |
| HYKS-07612PP | White  | Through hole   | Polypropylene | 20.9   | 27.7   | 169.5  | 4.0              | 14.5       | 94-V2               | 16.0                    | 76              | 450             | 12    | 85-T110°C   |

### Nylon pillar terminal blocks



|                |       |                |             |      |    |       |     |    |         |     |      |     |         |            |
|----------------|-------|----------------|-------------|------|----|-------|-----|----|---------|-----|------|-----|---------|------------|
| PA35           | Clear | Through hole   | Nylon PA6.6 | 15.2 | 15 | 93.5  | 2.6 | 8  | UL94-V2 | 2.5 | 24   | 450 | 1 to 12 | -5 to +125 |
| PA27XA1F01-12  | Clear | Through hole   | Nylon PA6.6 | 17.8 | 20 | 117   | 3.2 | 10 | UL94-V2 | 2.5 | 32   | 450 | 1 to 12 | -5 to +125 |
| PA44           | Clear | Through hole   | Nylon PA6.6 | 20   | 23 | 139.3 | 3.2 | 12 | UL94-V2 | 6   | 41   | 750 | 1 to 12 | -5 to +110 |
| PA76           | Clear | Through hole   | Nylon PA6.6 | 25.5 | 25 | 174.5 | 4.2 | 15 | UL94-V2 | 10  | 57   | 750 | 1 to 12 | -5 to +125 |
| PA220          | Clear | Through hole   | Nylon PA6.6 | 32   | 30 | 175.2 | 4.5 | 15 | UL94-V2 | 16  | 76   | 750 | 1 to 12 | -5 to +110 |
| PA35WVP        | Clear | Wire protected | Nylon PA6.6 | 15.2 | 15 | 93.5  | 2.6 | 8  | UL94-V2 | 1.5 | 17.5 | 450 | 1 to 12 | -5 to +125 |
| PA27XA1F01-12P | Clear | Wire protected | Nylon PA6.6 | 17.8 | 20 | 117   | 3.2 | 10 | UL94-V2 | 2.5 | 24   | 450 | 1 to 12 | -5 to +125 |
| PA44WVP        | Clear | Wire protected | Nylon PA6.6 | 20   | 23 | 139.3 | 3.2 | 12 | UL94-V2 | 4   | 32   | 750 | 1 to 12 | -5 to +110 |
| PA76WVP        | Clear | Wire protected | Nylon PA6.6 | 25.5 | 25 | 174.5 | 4.2 | 15 | UL94-V2 | 6   | 41   | 750 | 1 to 12 | -5 to +125 |

### Pillar terminal block steel inserts



|            |       |                            |                   |      |      |       |     |      |  |                                |    |     |      |      |
|------------|-------|----------------------------|-------------------|------|------|-------|-----|------|--|--------------------------------|----|-----|------|------|
| 1012800012 | White | Through hole               | Natural polyamide | 15   | 16.1 | 94    | 2.8 | 8    |  | 2.5                            | 24 | 450 | 1-12 | T110 |
| 1012802012 | White | Wire protected             | Natural polyamide | 15   | 16.1 | 94    | 2.8 | 8    |  | 2.5                            | 24 | 450 | 1-12 | T110 |
| 1012950012 | Clear | Through hole               | Natural polyamide | 18.5 | 20   | 116.6 | 3.5 | 10   |  | 4                              | 32 | 450 | 1-12 | T110 |
| 1012952012 | Clear | Wire protected             | Natural polyamide | 18.5 | 20   | 116.6 | 3.5 | 10   |  | 4                              | 32 | 450 | 1-12 | T110 |
| 1012953012 | Clear | Barrier and wire protected | Natural polyamide | 18.5 | 20   | 116.6 | 3.5 | 10   |  | 4                              | 32 | 450 | 1-12 | T110 |
| 1012956012 | Clear | Barrier                    | Natural polyamide | 18.5 | 20   | 116.6 | 3.5 | 10   |  | 4                              | 32 | 450 | 1-12 | T110 |
| 1013150012 | Clear | Through hole               | Natural polyamide | 20.9 | 22   | 134.5 | 3.5 | 11.5 |  | 6                              | 41 | 750 | 1-12 | T110 |
| 1013153012 | Clear | Barrier and wire protected | Natural polyamide | 20.9 | 22   | 134.5 | 3.5 | 11.5 |  | 6                              | 41 | 750 | 1-12 | T110 |
| 1013156012 | Clear | Barrier                    | Natural polyamide | 20.9 | 22   | 134.5 | 3.5 | 11.5 |  | 6                              | 41 | 750 | 1-12 | T110 |
| 1013200012 | White | Through hole               | Natural polyamide | 24   | 30.1 | 171   | 3   | 14.5 |  | 16mm solid core, 10mm stranded | 76 | 750 | 1-12 | T110 |
| 1013203012 | White | Barrier + wp               | Natural polyamide | 24   | 30.1 | 171   | 3   | 14.5 |  | 16mm solid core, 10mm stranded | 76 | 750 | 1-12 | T110 |
| 1013206012 | White | Barrier                    | Natural polyamide | 24   | 30.1 | 171   | 3   | 14.5 |  | 16mm solid core, 10mm stranded | 76 | 750 | 1-12 | T110 |

No flame versions also available for this range

### High temperature pillar terminal blocks



|                |           |                |                                  |      |    |       |     |    |         |     |      |     |         |            |
|----------------|-----------|----------------|----------------------------------|------|----|-------|-----|----|---------|-----|------|-----|---------|------------|
| PA35FV         | Red/Brown | Through hole   | Glass-fibre reinforced polyamide | 15.2 | 15 | 93.5  | 2.6 | 8  | UL94-V0 | 2.5 | 24   | 45  | 1 to 12 | -5 to +150 |
| FV27XA1F01-12  | Red/Brown | Through hole   | Glass-fibre reinforced polyamide | 17.8 | 20 | 117   | 3.2 | 10 | UL94-V0 | 4   | 32   | 45  | 1 to 12 | -5 to +150 |
| PA44FV         | Red/Brown | Through hole   | Glass-fibre reinforced polyamide | 20   | 23 | 139.3 | 3.2 | 12 | UL94-V0 | 6   | 41   | 750 | 1 to 12 | -5 to +150 |
| PA76FV         | Red/Brown | Through hole   | Glass-fibre reinforced polyamide | 25.5 | 25 | 174.5 | 4.2 | 15 | UL94-V0 | 10  | 57   | 750 | 1 to 12 | -5 to +150 |
| PA220FV        | Red/Brown | Through hole   | Glass-fibre reinforced polyamide | 32   | 30 | 175.2 | 4.5 | 15 | UL94-V0 | 16  | 76   | 750 | 1 to 12 | -5 to +150 |
| PA35FVWP       | Red/Brown | Wire protected | Glass-fibre reinforced polyamide | 15.2 | 15 | 93.5  | 2.6 | 8  | UL94-V0 | 1.5 | 17.5 | 450 | 1 to 12 | -5 to +150 |
| FV27XA1F01-12P | Red/Brown | Wire protected | Glass-fibre reinforced polyamide | 17.8 | 20 | 117   | 3.2 | 10 | UL94-V0 | 2.5 | 24   | 450 | 1 to 12 | -5 to +150 |
| PA44FVWP       | Red/Brown | Wire protected | Glass-fibre reinforced polyamide | 20   | 23 | 139.3 | 3.2 | 12 | UL94-V0 | 4   | 32   | 750 | 1 to 12 | -5 to +150 |
| PA76FVWP       | Red/Brown | Wire protected | Glass-fibre reinforced polyamide | 25.5 | 25 | 174.5 | 4.2 | 15 | UL94-V0 | 6   | 41   | 750 | 1 to 12 | -5 to +150 |

# Nylon Pillar Terminal Blocks

### Features:

- 12 way plug and socket terminal strip can be cut to pole lengths required
- IP 30 plg/skt connectors in 3,4 & 5 pole with latch options for lighting applications
- Modular assembly allows rapid disconnection/reconnection for testing and/or replacement units
- GST Style connectors VDE Approved to mate with Wieland and Adels equivalents

### No flame material pillar terminal blocks



| Product Code | Colour | Terminal style             | Material                         | H (mm) | W (mm) | L (mm) |  | Fixing Hole (mm) | Pitch (mm) | Flammability Rating                 | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Poles | Temp Rating |
|--------------|--------|----------------------------|----------------------------------|--------|--------|--------|--|------------------|------------|-------------------------------------|-------------------------|-----------------|-----------------|-------|-------------|
| 1013420012   | White  | Through hole               | Glass-fibre reinforced polyamide | 15     | 16.2   | 94     |  | 2.8              | 8          | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 2.5                     | 24              | 450             | 1-12  | T150        |
| 1013422012   | White  | Wire protected             | Glass-fibre reinforced polyamide | 15     | 16.2   | 94     |  | 2.8              | 8          | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 2.5                     | 24              | 450             | 1-12  | T150        |
| 1013510012   | White  | Through hole               | Glass-fibre reinforced polyamide | 15.5   | 20.1   | 116.6  |  | 3.5              | 10         | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 4                       | 32              | 450             | 1-12  | T150        |
| 1013512012   | White  | Wire protected             | Glass-fibre reinforced polyamide | 15.5   | 20.1   | 116.6  |  | 3.5              | 10         | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 4                       | 32              | 450             | 1-12  | T150        |
| 1013513012   | White  | Barrier and wire protected | Glass-fibre reinforced polyamide | 15.5   | 20.1   | 116.6  |  | 3.5              | 10         | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 4                       | 32              | 450             | 1-12  | T150        |
| 1013516012   | White  | Barrier                    | Glass-fibre reinforced polyamide | 15.5   | 20.1   | 116.6  |  | 3.5              | 10         | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 4                       | 32              | 450             | 1-12  | T150        |
| 1013180012   | White  | Through hole               | Glass-fibre reinforced polyamide | 19     | 22     | 134.5  |  | 3.5              | 11.5       | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 6                       | 41              | 750             | 1-12  | T150        |
| 1013183012   | White  | Barrier and wire protected | Glass-fibre reinforced polyamide | 19     | 22     | 134.5  |  | 3.5              | 11.5       | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 6                       | 41              | 750             | 1-12  | T150        |
| 1013186012   | White  | Barrier                    | Glass-fibre reinforced polyamide | 19     | 22     | 134.5  |  | 3.5              | 11.5       | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 6                       | 41              | 750             | 1-12  | T150        |

### 12 way plug & Skt connector strip



| Product Code | Colour | Terminal style | Material  | H (mm) | W (mm) | L (mm) |  | Fixing Hole (mm) | Pitch (mm) | Flammability Rating | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Poles | Temp Rating |
|--------------|--------|----------------|-----------|--------|--------|--------|--|------------------|------------|---------------------|-------------------------|-----------------|-----------------|-------|-------------|
| HYPS-01712   | White  | Plug & socket  | Polyamide | 14     | 23     | 115    |  | 3.0              | 9.6        | UL94-V2             | 2.5                     | 17.5            | 250             | 12    | 110°C Max   |

### 12 Way Plug / socket connector strips No Flame



| Product Code | Colour | Terminal style | Material                         | H (mm) | W (mm) | L (mm) |  | Fixing Hole (mm) | Pitch (mm) | Flammability Rating                 | Max Conductor Size (mm)      | Max Current (A) | Max Voltage (V) | Poles | Temp Rating |
|--------------|--------|----------------|----------------------------------|--------|--------|--------|--|------------------|------------|-------------------------------------|------------------------------|-----------------|-----------------|-------|-------------|
| 1011470012   | White  | Plug           | Glass-fibre reinforced polyamide | 19.5   | 35.7   | 137.45 |  | 3.6mm            | 11.75      | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 6mm solid core, 4mm stranded | 16              | 450             | 12    | T150        |
| 1011478012   | White  | Socket         | Glass-fibre reinforced polyamide | 19.5   | 22.6   | 137.45 |  | 3.6mm            | 11.75      | 750 C FLAME < 2 SEC (IEC/EC60335-1) | 6mm solid core, 4mm stranded | 16              | 450             | 12    | T150        |

### 16 Way Plug / socket connector strips.



| Product Code | Colour | Terminal style | Material                         | H (mm) | W (mm) | L (mm) |  | Fixing Hole (mm) | Pitch (mm) | Flammability Rating | Max Conductor Size (mm)       | Max Current (A) | Max Voltage (V) | Poles | Temp Rating |
|--------------|--------|----------------|----------------------------------|--------|--------|--------|--|------------------|------------|---------------------|-------------------------------|-----------------|-----------------|-------|-------------|
| 1014110016   | Clear  | Plug           | Glass-fibre reinforced polyamide | 17.8   | 36     | 181    |  | 3.8mm            | 11.5       |                     | 10mm solid core, 6mm stranded | 16              | 400             | 16    | T120        |
| 1014410016   | Clear  | Socket         | Glass-fibre reinforced polyamide | 17.8   | 24     | 181    |  | 3.8mm            | 11.5       |                     | 10mm solid core, 6mm stranded | 16              | 400             | 16    | T120        |

### Screw to Pushwire



| Product Code | Colour | Terminal style | Material        | H (mm) | W (mm) | L (mm) |  | Fixing Hole (mm) | Pitch (mm) | Flammability Rating | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Poles | Temp Rating |
|--------------|--------|----------------|-----------------|--------|--------|--------|--|------------------|------------|---------------------|-------------------------|-----------------|-----------------|-------|-------------|
| 1021800012   | White  |                | White polyamide | 18.4   | 19     | 117    |  | 3                | 10         |                     | 2.5mm                   | 24              | 450             | 1-12  | T110        |
| 1021802012   | White  | Wire protected | White polyamide | 18.4   | 19     | 117    |  | 3                | 10         |                     | 2.5mm                   | 24              | 450             | 1-12  | T110        |
| 1021330002   | White  |                | White polyamide | 17.9   | 19     | 117    |  |                  | 10         |                     | 2.5mm                   | 24              | 450             | 1-12  | T110        |

### IP30 Plug & Socket Lighting Connectors



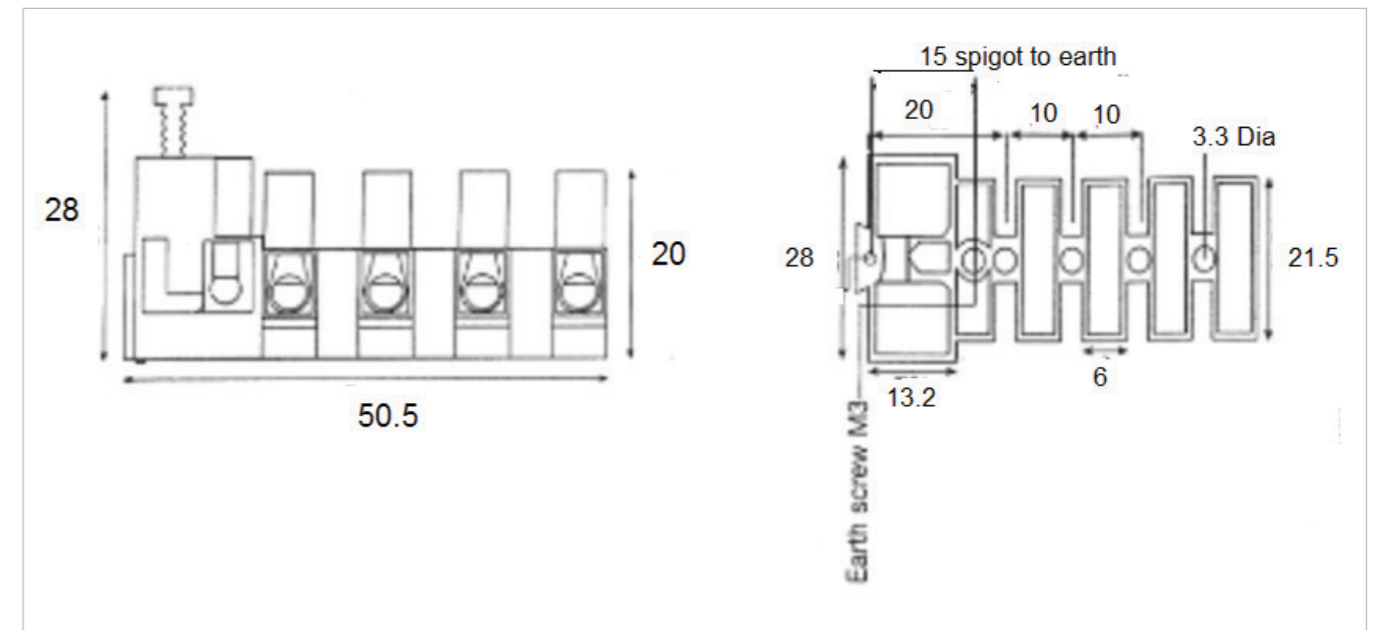
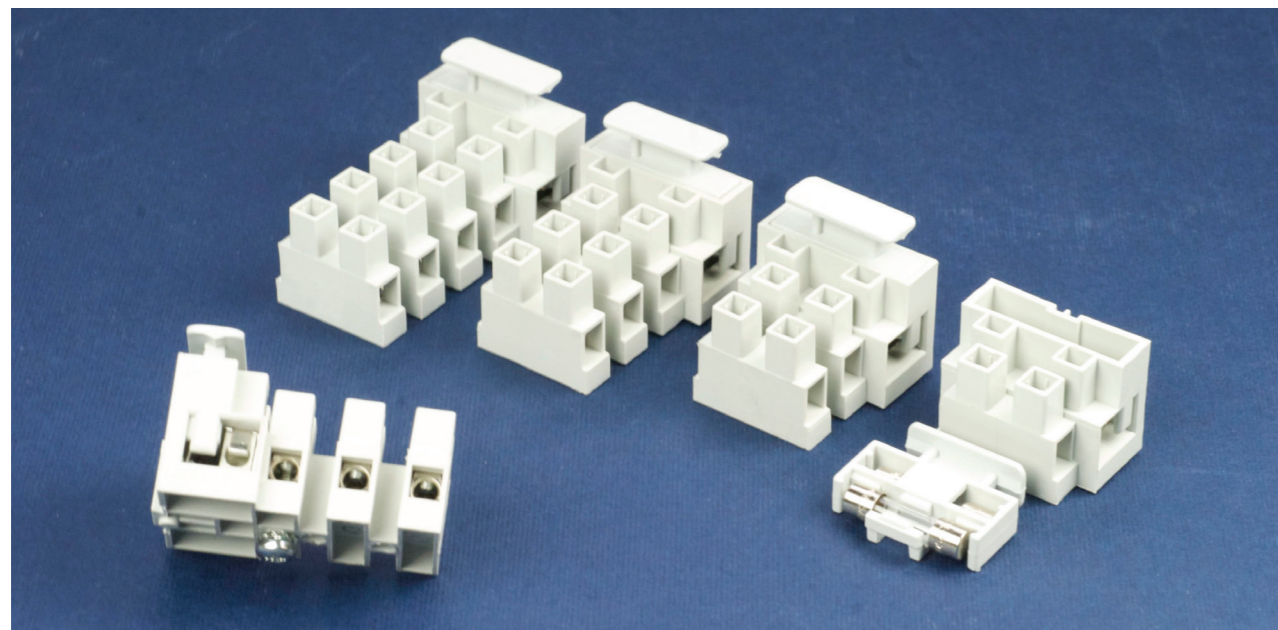
| Product Code | Colour | Poles | Material  | H (mm) | W (mm) | L (mm) |  | Fixing Hole (mm) | Pitch (mm) | Flammability Rating | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Temp Rating | Description                                 |
|--------------|--------|-------|-----------|--------|--------|--------|--|------------------|------------|---------------------|-------------------------|-----------------|-----------------|-------------|---|
| HYGST-30PSK  | Black  | 3     | Polyamide |        |        |        |  |                  |            | UL94-V2             | 2.5                     | 16              | 250             | 110°C Max   | Plug and Socket including Covers            |
| HYGST-3LPSK  | Black  | 3     | Polyamide |        |        |        |  |                  |            | UL94-V2             | 2.5                     | 16              | 250             | 110°C Max   | Plug and Socket with latch including Covers |
| HYGST-4LPSK  | Black  | 4     | Polyamide |        |        |        |  |                  |            | UL94-V2             | 2.5                     | 16              | 250             | 110°C Max   | Plug and Socket with latch including Covers |
| HYGST-5LPSK  | Black  | 5     | Polyamide |        |        |        |  |                  |            | UL94-V2             | 2.5                     | 16              | 250             | 110°C Max   | Plug and Socket with latch including Covers |



# Fused Pillar Blocks

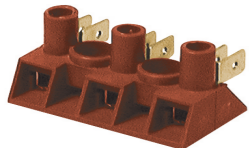
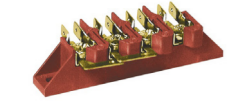
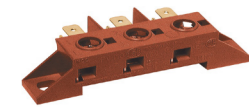
Fused Pillar blocks, fuse size 5x20mm

| Product Code | Colour | Terminal style                                 | Material          | H (mm) | W (mm) | L (mm) |  | Fixing Hole Dia (mm) | Pitch (mm) | Flammability Rating | Max Conductor Size (mm) | Max Current (A)             | Max Voltage (V)               | Poles | Temp Rating      |
|--------------|--------|--|-------------------|--------|--------|--------|--|----------------------|------------|---------------------|-------------------------|-----------------------------|-------------------------------|-------|------------------|
| DFTBN/1      | Grey   | Interlocking, 1P                               | Polyamide UL94-V0 | 20mm   | 28mm   | 20.5mm |  |                      | 10         | UL94-V0             | 4                       | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 1     | -20 - + 120 DegC |
| DFTBN/2      | Grey   | 2 Pole   | Polyamide UL94-V0 | 20mm   | 28mm   | 30.5mm |  |                      | 10         | UL94-V0             | 4                       | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 2     | -20 - + 120 DegC |
| DFTBN/3      | Grey   | With earth screw, 3P                           | Polyamide UL94-V0 | 20mm   | 28mm   | 40.5mm |  | 3.3                  | 10         | UL94-V0             | 4                       | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 3     | -20 - + 120 DegC |
| DFTBN/4      | Grey   | With earth screw, 4P                           | Polyamide UL94-V0 | 20mm   | 28mm   | 50.5mm |  | 3.3                  | 10         | UL94-V0             | 4                       | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 4     | -20 - + 120 DegC |
| DFTBN/5      | Grey   | With earth screw, 5P                           | Polyamide UL94-V0 | 20mm   | 28mm   | 60.5mm |  | 3.3                  | 10         | UL94-V0             | 4                       | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 5     | -20 - + 120 DegC |
| DFTBN/3NE    | Grey   | No earth, 3P                                   | Polyamide UL94-V0 | 20mm   | 28mm   | 40.5mm |  | 3.3                  | 10         | UL94-V0             | 4                       | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 3     | -20 - + 120 DegC |
| DFTBN/4NE    | Grey   | No earth, 4P                                   | Polyamide UL94-V0 | 20mm   | 28mm   | 50.5mm |  | 3.3                  | 10         | UL94-V0             | 4                       | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 4     | -20 - + 120 DegC |
| DFTBN/5NE    | Grey   | No earth, 5P                                   | Polyamide UL94-V0 | 20mm   | 28mm   | 60.5mm |  | 3.3                  | 10         | UL94-V0             | 4                       | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 5     | -20 - + 120 DegC |
| DFTBN/2WP    | Grey   | Wire Protector, No earth 2P                    | Polyamide UL94-V0 | 20mm   | 28mm   | 30.5mm |  |                      | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 2     | -20 - + 120 DegC |
| DFTBN/3WP    | Grey   | Wire Protector, No earth 3P                    | Polyamide UL94-V0 | 20mm   | 28mm   | 40.5mm |  | 3.3                  | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 3     | -20 - + 120 DegC |
| DFTBN/4WP    | Grey   | Wire Protector, No earth 4P                    | Polyamide UL94-V0 | 20mm   | 28mm   | 50.5mm |  | 3.3                  | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 4     | -20 - + 120 DegC |
| DFTBN/5WP    | Grey   | Wire Protector, No earth 5P                    | Polyamide UL94-V0 | 20mm   | 28mm   | 60.5mm |  | 3.3                  | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 5     | -20 - + 120 DegC |
| DFTBN/3EWP   | Grey   | Wire Protected terminals , with earth screw 3P | Polyamide UL94-V0 | 20mm   | 28mm   | 40.5mm |  | 3.3                  | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 3     | -20 - + 120 DegC |
| DFTBN/4EWP   | Grey   | Wire Protected terminals , with earth screw 4P | Polyamide UL94-V0 | 20mm   | 28mm   | 50.5mm |  | 3.3                  | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 4     | -20 - + 120 DegC |
| DFTBN/5EWP   | Grey   | Wire Protected terminals , with earth screw 5P | Polyamide UL94-V0 | 20mm   | 28mm   | 60.5mm |  | 3.3                  | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 5     | -20 - + 120 DegC |
| DFTBN/3EWP   | Grey   | WP on all poles & inc. earth screw 3P          | Polyamide UL94-V0 | 20mm   | 28mm   | 40.5mm |  | 3.3                  | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 3     | -20 - + 120 DegC |
| DFTBN/4EWP   | Grey   | WP on all poles & inc. earth screw 4P          | Polyamide UL94-V0 | 20mm   | 28mm   | 50.5mm |  | 3.3                  | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 4     | -20 - + 120 DegC |
| DFTBN/5EWP   | Grey   | WP on all poles & inc. earth screw 5P          | Polyamide UL94-V0 | 20mm   | 28mm   | 60.5mm |  | 3.3                  | 10         | UL94-V0             | 2.5                     | Fuseholder 13A Terminal 20A | Fuseholder 250V Terminal 450V | 5     | -20 - + 120 DegC |



### Screw to tab terminal blocks

| Product Code | Colour    | Terminal style | Material                         | H (mm) | W (mm) | L (mm) | Fixing Hole (mm) | Tab size (mm) | Flammability Rating | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Poles | Temp Rating     |
|--------------|-----------|----------------|----------------------------------|--------|--------|--------|------------------|---------------|---------------------|-------------------------|-----------------|-----------------|-------|-----------------|
| FV110        | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 24     | 31.5   | 81.3   | 6mm              | 6.3 x 0.8     | UL94-V0             | 6                       | 40              | 450             | 3     | -5 - + 150 DegC |
| FV122        | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 24     |        | 134.4  | 6mm              | 6.3 x 0.8     | UL94-V0             | 6                       | 40              | 450             | 6     | -5 - + 150 DegC |
| FV173        | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 24     | 31.5   | 99     | 6mm              | 6.3 x 0.8     | UL94-V0             | 6                       | 40              | 450             | 4     | -5 - + 150 DegC |
| FV273/3      | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 21     |        | 82     | 5.5mm            | 6.3 x 0.8     | UL94-V0             | 6                       | 41              | 450             | 3     | -5 - + 150 DegC |
| FV273/4      | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 21     |        | 100    | 5.5mm            | 6.3 x 0.8     | UL94-V0             | 6                       | 41              | 450             | 4     | -5 - + 150 DegC |
| FV273/5      | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 21     |        | 118    | 5.5mm            | 6.3 x 0.8     | UL94-V0             | 6                       | 41              | 450             | 5     | -5 - + 150 DegC |
| FV273/6      | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 21     |        | 136    | 5.5mm            | 6.3 x 0.8     | UL94-V0             | 6                       | 41              | 450             | 6     | -5 - + 150 DegC |
| FV273/7      | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 21     |        | 154    | 5.5mm            | 6.3 x 0.8     | UL94-V0             | 6                       | 41              | 450             | 7     | -5 - + 150 DegC |
| FV77/2       | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 21.3   | 24     | 25     |                  | 6.3 x 0.8     | UL94-V0             | 4                       | 25              | 450             | 2     | -5 - + 150 DegC |
| FV77/3       | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 21.3   | 24     | 41     |                  | 6.3 x 0.8     | UL94-V0             | 4                       | 25              | 450             | 3     | -5 - + 150 DegC |
| FV77/4       | Red/Brown | Screw to tab   | Glass-fibre reinforced polyamide | 21.3   | 24     | 57     |                  | 6.3 x 0.8     | UL94-V0             | 4                       | 25              | 450             | 4     | -5 - + 150 DegC |
| 1196300402   | Grey      | Screw to tab   | Polyamide                        | 19.8   | 27.2   | 27     | 4mm              | 6.3 x 0.8     |                     | 2.5                     | 24              | 450             | 2     | T110            |
| 1196300403   | Grey      | Screw to tab   | Polyamide                        | 19.8   | 27.2   | 42.5   | 4mm              | 6.3 x 0.8     |                     | 2.5                     | 24              | 450             | 3     | T110            |
| 1196300404   | Grey      | Screw to tab   | Polyamide                        | 19.8   | 27.2   | 58     | 4mm              | 6.3 x 0.8     |                     | 2.5                     | 24              | 450             | 4     | T110            |
| 1196300405   | Grey      | Screw to tab   | Polyamide                        | 19.8   | 27.2   | 73.5   | 4mm              | 6.3 x 0.8     |                     | 2.5                     | 24              | 450             | 5     | T110            |
| 1196300406   | Grey      | Screw to tab   | Polyamide                        | 19.8   | 27.2   | 89     | 4mm              | 6.3 x 0.8     |                     | 2.5                     | 24              | 450             | 6     | T110            |

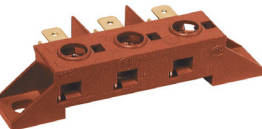


### Screw to tab terminal blocks with wire protector

|          |           |                              |                                  |      |    |    |  |           |         |   |    |     |   |                 |
|----------|-----------|------------------------------|----------------------------------|------|----|----|--|-----------|---------|---|----|-----|---|-----------------|
| FV77/2WP | Red/Brown | Screw to tab, wire protected | Glass-fibre reinforced polyamide | 21.3 | 24 | 25 |  | 6.3 x 0.8 | UL94-V0 | 4 | 25 | 450 | 2 | -5 - + 150 DegC |
| FV77/3WP | Red/Brown | Screw to tab, wire protected | Glass-fibre reinforced polyamide | 21.3 | 24 | 41 |  | 6.3 x 0.8 | UL94-V0 | 4 | 25 | 450 | 3 | -5 - + 150 DegC |
| FV77/4WP | Red/Brown | Screw to tab, wire protected | Glass-fibre reinforced polyamide | 21.3 | 24 | 57 |  | 6.3 x 0.8 | UL94-V0 | 4 | 25 | 450 | 4 | -5 - + 150 DegC |

### Screw to tab terminal blocks with earth bracket

|          |           |              |                                  |    |      |       |       |           |         |   |    |     |   |                 |
|----------|-----------|--------------|----------------------------------|----|------|-------|-------|-----------|---------|---|----|-----|---|-----------------|
| FV110/B  | Red/Brown | Screw to tab | Glass-fibre reinforced polyamide | 24 | 31.5 | 81.3  | 6mm   | 6.3 x 0.8 | UL94-V0 | 6 | 40 | 450 | 3 | -5 - + 150 DegC |
| FV122/B  | Red/Brown | Screw to tab | Glass-fibre reinforced polyamide | 24 |      | 134.4 | 6mm   | 6.3 x 0.8 | UL94-V0 | 6 | 40 | 450 | 6 | -5 - + 150 DegC |
| FV173/B  | Red/Brown | Screw to tab | Glass-fibre reinforced polyamide | 24 | 31.5 | 99    | 6mm   | 6.3 x 0.8 | UL94-V0 | 6 | 40 | 450 | 4 | -5 - + 150 DegC |
| FV273/3B | Red/Brown | Screw to tab | Glass-fibre reinforced polyamide | 21 |      | 82    | 5.5mm | 6.3 x 0.8 | UL94-V0 | 6 | 41 | 450 | 3 | -5 - + 150 DegC |
| FV273/4B | Red/Brown | Screw to tab | Glass-fibre reinforced polyamide | 21 |      | 100   | 5.5mm | 6.3 x 0.8 | UL94-V0 | 6 | 41 | 450 | 4 | -5 - + 150 DegC |
| FV273/5B | Red/Brown | Screw to tab | Glass-fibre reinforced polyamide | 21 |      | 118   | 5.5mm | 6.3 x 0.8 | UL94-V0 | 6 | 41 | 450 | 5 | -5 - + 150 DegC |
| FV273/6B | Red/Brown | Screw to tab | Glass-fibre reinforced polyamide | 21 |      | 136   | 5.5mm | 6.3 x 0.8 | UL94-V0 | 6 | 41 | 450 | 6 | -5 - + 150 DegC |
| FV273/7B | Red/Brown | Screw to tab | Glass-fibre reinforced polyamide | 21 |      | 154   | 5.5mm | 6.3 x 0.8 | UL94-V0 | 6 | 41 | 450 | 7 | -5 - + 150 DegC |



### Tab to tab terminal block

| Product Code | Colour | Terminal style | Material          | H (mm) | W (mm) | L (mm) | Fixing Hole (mm) | Tab size (mm) | Flammability Rating | Max Current (A) | Max Voltage (V) | Poles | Temp Rating     |
|--------------|--------|----------------|-------------------|--------|--------|--------|------------------|---------------|---------------------|-----------------|-----------------|-------|-----------------|
| PA21         | Clear  | Tab to Tab     | Polyamide UL94 V2 | 7.5    | 27     | 149    | 3.3mm            | 6.3 x 0.8     | UL94-V0             | 15              | 450             | 12    | -5 - + 120 DegC |



### Din rail barrier terminal block tab to tab

|         |       |            |                   |    |    |    |        |           |         |    |     |   |                 |
|---------|-------|------------|-------------------|----|----|----|--------|-----------|---------|----|-----|---|-----------------|
| PA80F/F | Clear | tab to tab | Polyamide UL94 V2 | 29 | 38 | 11 | Din 15 | 6.3 x 0.8 | UL94-V2 | 20 | 450 | 3 | -5 - + 110 DegC |
|---------|-------|------------|-------------------|----|----|----|--------|-----------|---------|----|-----|---|-----------------|

### Din rail barrier terminal block screw to tab

|         |       |              |                   |    |    |    |        |           |         |    |     |                 |                 |
|---------|-------|--------------|-------------------|----|----|----|--------|-----------|---------|----|-----|-----------------|-----------------|
| PA80V/F | Clear | Screw to tab | Polyamide UL94 V2 | 29 | 38 | 11 | Din 15 | 6.3 x 0.8 | UL94-V2 | 20 | 450 | 1 Screw, 3 Tabs | -5 - + 110 DegC |
|---------|-------|--------------|-------------------|----|----|----|--------|-----------|---------|----|-----|-----------------|-----------------|



### End plate for PA80 series

|      |       |  |                   |    |    |    |        |  |         |  |  |  |                 |
|------|-------|--|-------------------|----|----|----|--------|--|---------|--|--|--|-----------------|
| PA81 | Clear |  | Polyamide UL94 V2 | 29 | 38 | 11 | Din 15 |  | UL94-V2 |  |  |  | -5 - + 110 DegC |
|------|-------|--|-------------------|----|----|----|--------|--|---------|--|--|--|-----------------|

### Distribution connectors

|            |       |                        |           |    |    |    |  |           |         |      |     |   |      |
|------------|-------|------------------------|-----------|----|----|----|--|-----------|---------|------|-----|---|------|
| 1195350003 | Clear | Distribution Connector | Polyamide | 28 | 37 | 52 |  | 6.3 x 0.8 | UL94-V2 | 17.5 | 450 | 3 | T110 |
| 1195350004 | Clear | Distribution Connector | Polyamide | 28 | 37 | 63 |  | 6.3 x 0.8 | UL94-V2 | 17.5 | 450 | 4 | T110 |
| 1195350006 | Clear | Distribution Connector | Polyamide | 28 | 37 | 74 |  | 6.3 x 0.8 | UL94-V2 | 17.5 | 450 | 6 | T110 |
| 1195351003 | Clear | Distribution Connector | Polyamide | 28 | 37 | 52 |  | 6.3 x 0.8 | UL94-V2 | 17.5 | 450 | 3 | T110 |
| 1195351004 | Clear | Distribution Connector | Polyamide | 28 | 37 | 63 |  | 6.3 x 0.8 | UL94-V2 | 17.5 | 450 | 4 | T110 |
| 1195351006 | Clear | Distribution Connector | Polyamide | 28 | 37 | 74 |  | 6.3 x 0.8 | UL94-V2 | 17.5 | 450 | 6 | T110 |



Terminal box with integrated cable clamp and internal screw to tab or tab to tab terminals



| Product Code | Colour      | Material           | H (mm) | W (mm) | L (mm) | Fixing Hole (mm) | Tab size (mm) | Flammability Rating | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Poles | Temp Rating     |
|--------------|-------------|--------------------|--------|--------|--------|------------------|---------------|---------------------|-------------------------|-----------------|-----------------|-------|-----------------|
| PA104        | White       | Polyamide UL94 V2  | 107    | 66     | 23.5   | 5.5mm            | 6.3 x 0.8     | UL94 V2             | 1.5                     | 16              | 450             | 6     | -5 - + 85 DegC  |
| PA92/1/4     | Black/White | Polyamide UL 94 V2 | 113.5  | 71.5   | 16     |                  | 4.8 x 0.8     | UL94 V2             | 1                       | 13.5            | 450             | 4     | -5 - + 125 DegC |

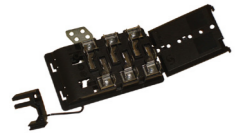
Terminal box with integrated cable clamp and grounding plate. For snap in fixing chassis



| Product Code | Colour | Material          | H (mm) | W (mm) | L (mm) | Panel cut out diameter* (mm) | Panel cut out thickness (mm) | Flammability Rating | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Poles | Temp Rating     |
|--------------|--------|-------------------|--------|--------|--------|------------------------------|------------------------------|---------------------|-------------------------|-----------------|-----------------|-------|-----------------|
| PA223/3SN    | Black  | Polyamide UL94 V2 | 82.8   | 53.8   | 34     | 50.5x82.5mm                  | 0.8-1.5mm                    | UL94 V2             | 6                       | 40              | 450             | 3     | -5 - + 125 DegC |
| PA223/6SN    | Black  | Polyamide UL94 V2 | 82.8   | 53.8   | 34     | 50.5x82.5mm                  | 0.8-1.5mm                    | UL94 V2             | 6                       | 40              | 450             | 6     | -5 - + 125 DegC |

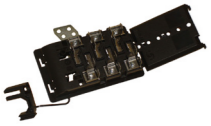
\*See relevant product data sheet for cut-out details.

Terminal box for snap in chassis fixing



|         |       |                    |      |      |      |             |           |         |     |    |     |   |                 |
|---------|-------|--------------------|------|------|------|-------------|-----------|---------|-----|----|-----|---|-----------------|
| PA4542  | Black | Polyamide UL 94 V2 | 82.8 | 53.8 | 31   | 50.5x82.5mm | 0.8-1.5mm | UL94 V2 | 6   | 41 | 450 | 3 | -5 - + 110 DegC |
| PA4534  | Black | Polyamide UL 94 V2 | 81.8 | 55.7 | 24.8 | 50.5x82.5mm | 0.8-1.5mm | UL94 V2 | 6   | 41 | 450 | 6 | -5 - + 125 DegC |
| PA244/5 | Black | Polyamide UL 94 V2 | 60.5 | 37.5 | 40.8 |             | 0.8-1.5mm | UL94 V2 | 2.5 | 16 | 250 | 3 | -5 - + 125 DegC |

Terminal box for snap in chassis fixing with RAST5 connection



|        |       |                    |      |      |      |             |           |         |   |    |     |   |                 |
|--------|-------|--------------------|------|------|------|-------------|-----------|---------|---|----|-----|---|-----------------|
| PA4668 | Black | Polyamide UL 94 V2 | 82.8 | 53.8 | 31   | 50.5x82.5mm | 0.8-1.5mm | UL94 V2 | 6 | 41 | 450 | 3 | -5 - + 110 DegC |
| PA4682 | Black | Polyamide UL 94 V2 | 81.8 | 55.7 | 24.8 | 50.5x82.5mm | 0.8-1.5mm | UL94 V2 | 6 | 41 | 450 | 6 | -5 - + 125 DegC |

2 pole terminal block with integrated cable clamp, for snap in fixing on chassis, 16A



|          |       |                   |    |    |      |         |  |         |     |    |     |               |                 |
|----------|-------|-------------------|----|----|------|---------|--|---------|-----|----|-----|---------------|-----------------|
| PA84NRSV | Black | Polyamide UL94 V2 | 29 | 29 | 68.5 | 26x23mm |  | UL94 V2 | 1.5 | 16 | 450 | 1 Pole 2 Tabs | -5 - + 125 DegC |
|----------|-------|-------------------|----|----|------|---------|--|---------|-----|----|-----|---------------|-----------------|

2 pole terminal block with integrated cable clamp, for snap in fixing on chassis, 16A with earth bracket



|           |       |                   |    |    |      |         |  |         |     |    |     |               |                 |
|-----------|-------|-------------------|----|----|------|---------|--|---------|-----|----|-----|---------------|-----------------|
| PA84NRSVE | Black | Polyamide UL94 V2 | 29 | 29 | 68.5 | 26x23mm |  | UL94 V2 | 1.5 | 16 | 450 | 1 Pole 2 Tabs | -5 - + 125 DegC |
|-----------|-------|-------------------|----|----|------|---------|--|---------|-----|----|-----|---------------|-----------------|

16A 450V 2 Pole Plug Terminal Block



| Product Code | Colour    | Material                         | H (mm) | W (mm) | L (mm) | Fixing Hole diameter (mm) | Pitch (mm) | Flammability Rating | Max Conductor Size (mm) | Max Current (A) | Max Voltage (V) | Poles | Temp Rating |
|--------------|-----------|----------------------------------|--------|--------|--------|---------------------------|------------|---------------------|-------------------------|-----------------|-----------------|-------|-------------|
| 1026000102   | White     | PBT                              | 16.4   | 33     | 21.5   | N/A                       | 11.4       |                     | 2.5                     | 16              | 450             | 2     | T150        |
| 1026000302   | Black     | Glass-fibre reinforced polyamide | 16.4   | 33     | 21.5   | N/A                       | 11.4       |                     | 2.5                     | 16              | 450             | 2     | T150        |
| 1026020302   | Black     | Glass-fibre reinforced polyamide | 19.4   | 33     | 21.5   | N/A                       | 11.4       |                     | 2.5                     | 16              | 450             | 2     | T150        |
| 1026030002   | Red/Brown | Glass-fibre reinforced polyamide | 19.4   | 33     | 21.5   | N/A                       | 11.4       |                     | 2.5                     | 16              | 450             | 2     | T150        |
| 1026010002   | Red/Brown | Glass-fibre reinforced polyamide | 19.4   | 33     | 21.5   | N/A                       | 11.4       |                     | 2.5                     | 16              | 450             | 2     | T150        |

16A 450V 4 Pole Plug Terminal Block



|            |           |                                  |      |    |      |     |      |  |     |    |     |   |      |
|------------|-----------|----------------------------------|------|----|------|-----|------|--|-----|----|-----|---|------|
| 1026000104 | White     | PBT                              | 16.4 | 33 | 42.5 | N/A | 11.4 |  | 2.5 | 16 | 450 | 4 | T150 |
| 1026000304 | Black     | Glass-fibre reinforced polyamide | 16.4 | 33 | 42.5 | N/A | 11.4 |  | 2.5 | 16 | 450 | 4 | T150 |
| 1026010004 | Red/Brown | Glass-fibre reinforced polyamide | 16.4 | 33 | 42.5 | N/A | 11.4 |  | 2.5 | 16 | 450 | 4 | T150 |
| 1026020304 | Black     | Glass-fibre reinforced polyamide | 19.4 | 33 | 42.5 | N/A | 11.4 |  | 2.5 | 16 | 450 | 4 | T150 |
| 1026030004 | Red/Brown | Glass-fibre reinforced polyamide | 19.4 | 33 | 42.5 | N/A | 11.4 |  | 2.5 | 16 | 450 | 4 | T150 |

16A 450V 2 Pole Socket Terminal Block

|            |           |                                  |      |    |      |     |      |  |     |    |     |   |      |
|------------|-----------|----------------------------------|------|----|------|-----|------|--|-----|----|-----|---|------|
| 1026100302 | Black     | Glass-fibre reinforced polyamide | 19.5 | 23 | 21.5 | N/A | 11.5 |  | 2.5 | 16 | 450 | 2 | T150 |
| 1026110002 | Red/Brown | Glass-fibre reinforced polyamide | 19.5 | 23 | 21.5 | N/A | 11.5 |  | 2.5 | 16 | 450 | 2 | T150 |

16A 450V 4 Pole Socket Terminal Block

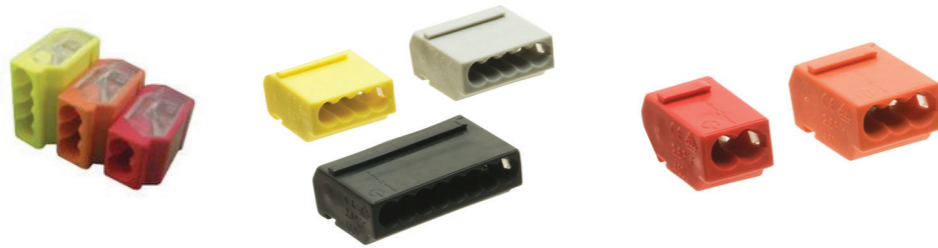
|            |           |                                  |      |    |    |     |      |  |     |    |     |   |      |
|------------|-----------|----------------------------------|------|----|----|-----|------|--|-----|----|-----|---|------|
| 1026100304 | Black     | Glass-fibre reinforced polyamide | 19.5 | 23 | 43 | N/A | 11.5 |  | 2.5 | 16 | 450 | 4 | T150 |
| 1026110004 | Red/Brown | Glass-fibre reinforced polyamide | 19.5 | 23 | 43 | N/A | 11.5 |  | 2.5 | 16 | 450 | 4 | T150 |

# Kwik Wire Connectors

## Commoning terminal blocks

### Features:

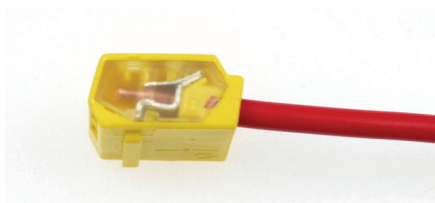
- Temp range :-20 to 100°C
- Colour coded Thermoplastic 94-V2
- 2-8 way commoning blocks - Pushwire
- Moulded Dovetail for stacking.
- Push insertion and twist release and with test slot
- Solid core conductor only.



### How these connectors work

These push-wire commoning connectors are intended for use with solid core conductors. Fast installation is ensured as there is no screwing down to clamp the conductors; simply strip the wires and push the conductor securely into the connector. The conductor is held in position by a spring that pushes it against a

conducting contact ensuring a good solid connection. Ideal for quick distribution of power, the connectors are available in 2, 3, 4, 5 & 8 way formats and can be neatly stacked via the dove tail slide and groove when the installation is complete.



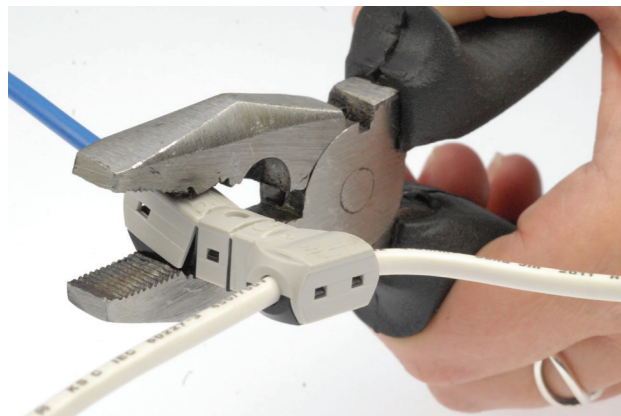
| Product Code | Colour | Wire Entries | H (mm) | W (mm) | L (mm) | Max Conductor Size (mm <sup>2</sup> ) | Max Current (A) | Max Voltage (V) |
|--------------|--------|--------------|--------|--------|--------|---------------------------------------|-----------------|-----------------|
| HYKW-02      | Red    | 2            | 10     | 18     | 10     | 2.5                                   | 20              | 450             |
| HYKW-03      | Orange | 3            | 10     | 18     | 12     | 2.5                                   | 20              | 450             |
| HYKW-04      | Yellow | 4            | 10     | 18     | 17     | 2.5                                   | 20              | 450             |
| HYKW-05      | Grey   | 5            | 10     | 18     | 20     | 2.5                                   | 20              | 450             |
| HYKW-08      | Black  | 8            | 10     | 18     | 30     | 2.5                                   | 20              | 450             |

# K9 Series

## K9 Clamp

### How K9 works

With K9, you simply insert your cable into the opening of the insulation displacement connector cage, then snap it shut to secure the wiring in place. Precision-sharpened connector blades then cut through the insulating sheath, cold welding the wires to the K9's interior. This creates an IP33 rated dustproof, water-resistant and airtight connection between the wires.



### The K9 product range

K9 is available in two shapes and 11 unique models:

**'I Type'** for end to end connections - five models with Conductor cross sectional areas from 0.1mm<sup>2</sup> – 5.0mm<sup>2</sup> and current ratings from 3Amp to 30Amp, depending on the conductor cross sectional area.

Sizes range from 5.5mm (h) x 5.5mm (w) x 25mm (d) to 10.4mm (w) x 10.4mm (h) x 40mm (d)

**'T Type'** for spurred connections - The range is similar to the 'I type' but with 6 models covering conductor cross sectional areas of 0.1mm<sup>2</sup> – 5.0mm<sup>2</sup> and current ratings from 3Amp to 30Amp, depending on the conductor cross sectional area. The additional T model in this range caters for two

different conductor sizes, the 'I end' is for conductors 0.1mm<sup>2</sup> – 0.5mm<sup>2</sup> whilst the 'T end' accommodates 0.6mm<sup>2</sup> – 1.0mm<sup>2</sup>. As with all T end clamps, the 'T' end simply clamps onto the conductor, there's no need to cut and reconnect existing cables – thus saving valuable time.

Sizes for the 'T Type' range from 5.5mm (h) x 14mm (w) x 25mm (d) to 10.4mm (h) x 20mm (w) x 42mm (d).

The maximum voltage for every K9 product is 600V. The connectors are manufactured in RoHS compliant plastic and feature brass copper connector blades. Weight ranges from 0.5 to 5.7g each.



# K9 Series



### Benefits of K9

- Simple – just insert the cables and snap the clamp shut. You don't even need to connect the wires and the only tool you may need is a pair of pliers to ensure a positive clamp on the larger K9 products and hence a good electrical connection.
- Safe – once shut, K9 is water-resistant and dustproof to IP33. And there's no risk of electric shock.
- Fast – no stripping down cable sheath, no screwing down wires and no taping up afterwards – K9 could reduce your installation times by up to 50%.
- Profitable – turn saved time into more completed projects – and more satisfied customers.
- Suitable for solid or stranded conductors.

### K9 Clamp Connectors I packs & T packs by size

| Product Image | Hylec-APL Part No | Hylec-APL Std Pack Qty | Product Title                                 | Description  | Max Voltage (V) | Max Current (A) |
|---------------|-------------------|------------------------|---|--|-----------------|-----------------|
|               | DIDCI-1           | 10                     | Kwik Wire IDC I connector size 1              | Conductor size (mm <sup>2</sup> ) 0.1-0.5 mm <sup>2</sup>  | 600             | 3               |
|               | DIDCI-2           | 10                     | Kwik Wire IDC I connector size 2              | Conductor size (mm <sup>2</sup> ) 0.6-1.0 mm <sup>2</sup>  | 600             | 10              |
|               | DIDCI-3           | 10                     | Kwik Wire IDC I connector size 3              | Conductor size (mm <sup>2</sup> ) 1.25-2.0 mm <sup>2</sup>   | 600             | 15              |
|               | DIDCI-4           | 5                      | Kwik Wire IDC I connector size 4              | Conductor size (mm <sup>2</sup> ) 2.25-3.0 mm <sup>2</sup>   | 600             | 20              |
|               | DIDCI-5           | 5                      | Kwik Wire IDC I connector size 5              | Conductor size (mm <sup>2</sup> ) 3.25-5.0 mm <sup>2</sup>   | 600             | 30              |
|               | DIDCT-1           | 10                     | Kwik Wire IDC T connector size 1              | Conductor size (mm <sup>2</sup> ) 0.1-0.5 mm <sup>2</sup>  | 600             | 3               |
|               | DIDCT-2           | 10                     | Kwik Wire IDC T connector size 2              | Conductor size (mm <sup>2</sup> ) 0.6-1.0 mm <sup>2</sup>  | 600             | 10              |
|               | DIDCT-3           | 10                     | Kwik Wire IDC T connector size 3              | Conductor size (mm <sup>2</sup> ) 1.25-2.0 mm <sup>2</sup><br>x75 pcs/pack   | 600             | 15              |
|               | DIDCT-4           | 5                      | Kwik Wire IDC T connector size 4              | Conductor size (mm <sup>2</sup> ) 2.25-3.0 mm <sup>2</sup><br>x50 pcs/pack   | 600             | 20              |
|               | DIDCT-5           | 5                      | Kwik Wire IDC T connector size 5              | Conductor size (mm <sup>2</sup> ) 3.25-5.0 mm <sup>2</sup><br>x50 pcs/pack   | 600             | 30              |
|               | DIDCT-2-I1        | 10                     | Kwik Wire IDC T & I Combined Connector Size 2 | Combined T = Conductor size (mm <sup>2</sup> ) 0.6-1.0 mm <sup>2</sup> + I = Conductor size (mm <sup>2</sup> ) 0.1-0.5 mm <sup>2</sup> | 600             | T: 10<br>I: 3   |

Larger pack quantities available on request - ask for details.

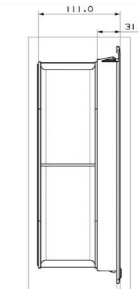
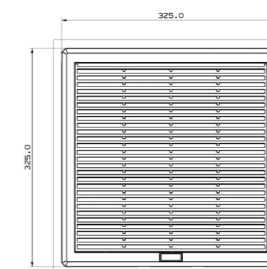
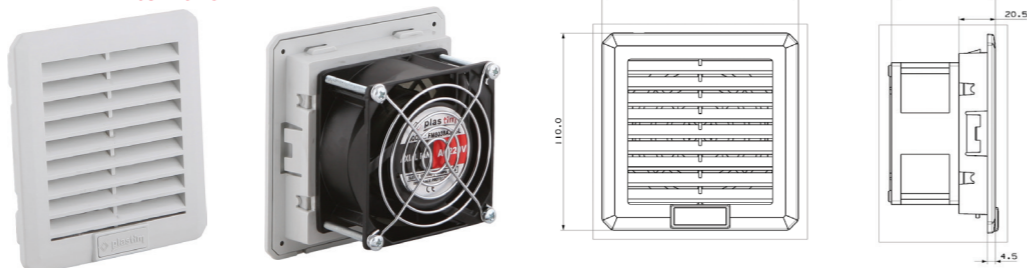
For more information on the K9 clamp, visit [www.k9clamp.co.uk](http://www.k9clamp.co.uk)

## Roof and filter fans

Roof fans



Filter fans



Roof Fans

These images are representative only.

Please see table for details.

| Product Code | Air Flow Rate (m³/h) | Power Supply (V/Hz) | H (mm) | W (mm) | L (mm) | Power Consumption (W) | Current Consumption (A) | Over Current Protection | Electrical Connection  | Operating Temperature (°C) | Protection Degree | Noise Level (dB(A)) | Flow Direction | Bearing | Service Life (Hr) | Plastic Material            | Gasket               | Weight (kg) | Mounting        | Conformity |
|--------------|----------------------|---------------------|--------|--------|--------|-----------------------|-------------------------|-------------------------|------------------------|----------------------------|-------------------|---------------------|----------------|---------|-------------------|-----------------------------|----------------------|-------------|-----------------|------------|
| DEFF5500     | 560                  | 230V 50-60Hz        | 364.4  | 364.4  | 107.5  | 58/75                 | 0.26 / 0.34             | Thermal                 | 4-pole terminal 2.5mm² | -10 / +70                  | IP44              | 62 (64)             | Inside-out     | Ball    | 50.000            | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 3.16        | 8 pcs m4 screws | CE         |
| DEFF6000     | 970                  | 230V 50-60Hz        | 364.4  | 364.4  | 107.5  | 85/90                 | 0.38 / 0.44             | Thermal                 | 4-pole terminal 2.5mm² | -10 / +70                  | IP44              | 72 (73)             | Inside-out     | Ball    | 50.000            | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 3.74        | 8 pcs m4 screws | CE         |

Filter Fans - 30m³/h

| Product Code | Air Flow Rate (m³/h) | Power Supply (V/Hz) | H (mm) | W (mm) | L (mm) | Power Consumption (W) | Current Consumption (A) | Over Current Protection | Electrical Connection | Operating Temperature (°C) | Protection Degree | Noise Level (dB(A)) | Flow Direction | Bearing | Colour                       | Plastic Material            | Gasket        | Weight (kg) | Mounting     | Conformity |
|--------------|----------------------|---------------------|--------|--------|--------|-----------------------|-------------------------|-------------------------|-----------------------|----------------------------|-------------------|---------------------|----------------|---------|------------------------------|-----------------------------|---------------|-------------|--------------|------------|
| DEFI 1000    |                      |                     | 110    | 110    | 20.5   |                       |                         |                         |                       | -10 / +70                  | IP54              |                     |                |         | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Self-Adhesive | 0.10        | Fast Clip-on | CE         |
| DETF 1000    | 30 (41)              | 230V 50-60Hz        | 110    | 110    | 20.5   | 14 (13)               | 0.08 / 0.07             | Impedance               | Lead wire             | -10 / +70                  | IP54 / Class 1    | 28 (31)             | Outside-In     | Sleeve  | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Self-Adhesive | 0.40        | Fast Clip-on | CE         |

Filter Fans - 100m³/h

|           |           |              |     |     |    |         |             |           |           |           |                |         |            |      |                              |                             |                      |      |              |    |
|-----------|-----------|--------------|-----|-----|----|---------|-------------|-----------|-----------|-----------|----------------|---------|------------|------|------------------------------|-----------------------------|----------------------|------|--------------|----|
| DEFI 1500 |           |              | 160 | 160 | 31 |         |             |           |           | -10 / +70 | IP54           |         |            |      | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 0.18 | Fast Clip-on | CE |
| DETF 1500 | 100 (140) | 230V 50-60Hz | 160 | 160 | 31 | 26 (23) | 0.14 / 0.13 | Impedance | Lead wire | -10 / +70 | IP54 / Class 1 | 42 (46) | Outside-In | Ball | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 0.68 | Fast Clip-on | CE |

Filter Fans - 115m³/h

|           |           |              |     |     |    |         |             |           |                 |           |                |         |            |      |                              |                             |                      |      |              |    |
|-----------|-----------|--------------|-----|-----|----|---------|-------------|-----------|-----------------|-----------|----------------|---------|------------|------|------------------------------|-----------------------------|----------------------|------|--------------|----|
| DEFI 2500 |           |              | 260 | 260 | 31 |         |             |           |                 | -10 / +70 | IP54           |         |            |      | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 0.48 | Fast Clip-on | CE |
| DETF 2500 | 115 (130) | 230V 50-60Hz | 260 | 260 | 31 | 26 (23) | 0.14 / 0.13 | Impedance | 3-pole terminal | -10 / +70 | IP54 / Class 1 | 42 (46) | Outside-In | Ball | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 1.18 | Fast Clip-on | CE |

Filter Fans - 240m³/h

|           |           |              |     |     |    |         |             |           |                 |           |                |         |            |      |                              |                             |                      |      |              |    |
|-----------|-----------|--------------|-----|-----|----|---------|-------------|-----------|-----------------|-----------|----------------|---------|------------|------|------------------------------|-----------------------------|----------------------|------|--------------|----|
| DEFI 2500 |           |              | 260 | 260 | 31 |         |             |           |                 | -10 / +70 | IP54           |         |            |      | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 0.48 | Fast Clip-on | CE |
| DETF 3500 | 240 (270) | 230V 50-60Hz | 260 | 260 | 31 | 37 (35) | 0.23 / 0.22 | Impedance | 3-pole terminal | -10 / +70 | IP54 / Class 1 | 52 (53) | Outside-In | Ball | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 1.60 | Fast Clip-on | CE |

Filter Fans - 650m³/h

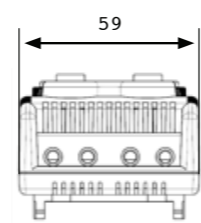
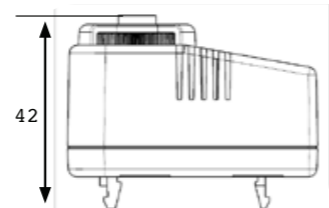
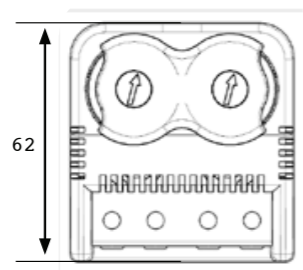
|           |           |              |     |     |    |         |             |         |                 |           |                |         |            |      |                              |                             |                      |      |              |    |
|-----------|-----------|--------------|-----|-----|----|---------|-------------|---------|-----------------|-----------|----------------|---------|------------|------|------------------------------|-----------------------------|----------------------|------|--------------|----|
| DEFI 2500 |           |              | 260 | 260 | 31 |         |             |         |                 | -10 / +70 | IP54           |         |            |      | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 0.48 | Fast Clip-on | CE |
| DETF4500  | 650 (900) | 230V 50-60Hz | 260 | 260 | 31 | 66 (75) | 0.35 / 0.38 | Thermal | 4-pole terminal | -10 / +70 | IP54 / Class 1 | 60 (63) | Outside-In | Ball | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 2.84 | Fast Clip-on | CE |

Filter Fans - 850m³/h

|           |            |              |     |     |     |           |             |         |                 |           |                |         |            |      |                              |                             |                      |      |              |    |
|-----------|------------|--------------|-----|-----|-----|-----------|-------------|---------|-----------------|-----------|----------------|---------|------------|------|------------------------------|-----------------------------|----------------------|------|--------------|----|
| DEFI 3000 |            |              | 325 | 325 | 111 |           |             |         |                 | -10 / +70 | IP54           |         |            |      | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 0.70 | Fast Clip-on | CE |
| DEFT 5000 | 850 (1200) | 230V 50-60Hz | 325 | 325 | 111 | 110 (140) | 0.50 / 0.72 | Thermal | 4-pole terminal | -10 / +70 | IP54 / Class 1 | 65 (68) | Outside-In | Ball | RAL7035 (RAL7032 on request) | UL94 V0 ABS Flame Retardant | Polyurethane sealing | 4.12 | Fast Clip-on | CE |

# Control equipment

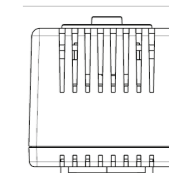
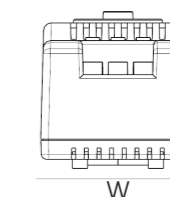
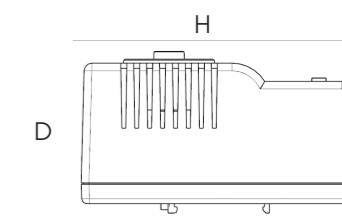
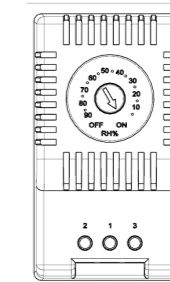
## Dual Thermostat



Thermostat



Hygostat



## Thermostats

| Product Code | Contact Function | Temperature Setting Range (°C) | Colour of Potentiometer | Maximum 250V AC / 120V AC (A) | Sensor Type | Contact Type | Service Life (Cycles) | Electrical Connection | Plastic Material            | Protection Degree (EN60529) | Operating Temperature (°C) | Storage Temperature (°C) | Mounting                           | Installation Position | Conformity | Dimensions H x W x D | Weight (g) |
|--------------|------------------|--------------------------------|-------------------------|-------------------------------|-------------|--------------|-----------------------|-----------------------|-----------------------------|-----------------------------|----------------------------|--------------------------|------------------------------------|-----------------------|------------|----------------------|------------|
| DEHT         | NC               | 0-60                           | Red                     | 10 (2)                        | Bimetal     | Snap action  | >100.000              | 2-pole terminal       | UL94 V0 ABS Flame Retardant | IP20                        | -25 / +80                  | -45 / +80                | Clip for mounting on DIN rail 35mm | Variable              | CE         | 61 x 34 x 38         | 45         |
| DEVT         | NO               | 0-60                           | Blue                    | 15 (2)                        | Bimetal     | Snap action  | >100.000              | 2-pole terminal       | UL94 V0 ABS Flame Retardant | IP20                        | -25 / +80                  | -45 / +80                | Clip for mounting on DIN rail 35mm | Variable              | CE         | 61 x 34 x 38         | 45         |

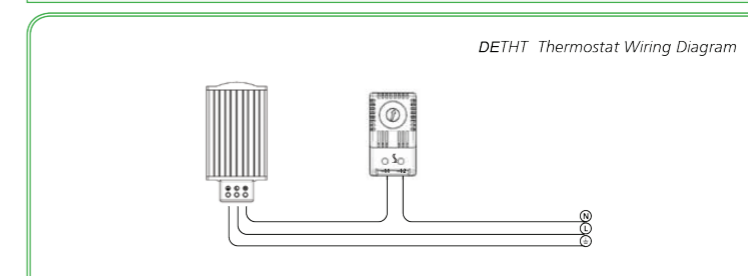
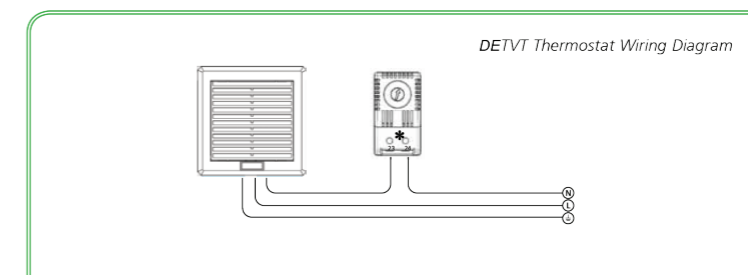
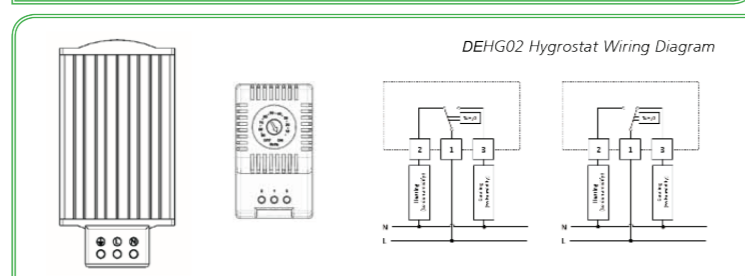
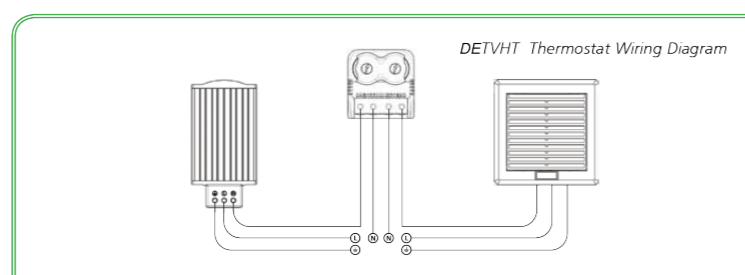
## Double Thermostat

|       |       |           |            |                 |         |             |          |                   |                             |      |           |           |                                    |          |    |              |    |
|-------|-------|-----------|------------|-----------------|---------|-------------|----------|-------------------|-----------------------------|------|-----------|-----------|------------------------------------|----------|----|--------------|----|
| DEHVT | NC+NO | 0-60/0-60 | Red + Blue | 10 (2) / 15 (2) | Bimetal | Snap Action | >100.000 | 4 - Pole Terminal | UL94 V0 ABS Flame Retardant | IP20 | -25 / +80 | -45 / +80 | Clip for mounting on DIN rail 35mm | Variable | CE | 65 x 59 x 42 | 80 |
|-------|-------|-----------|------------|-----------------|---------|-------------|----------|-------------------|-----------------------------|------|-----------|-----------|------------------------------------|----------|----|--------------|----|

## Mechanical Hygostat

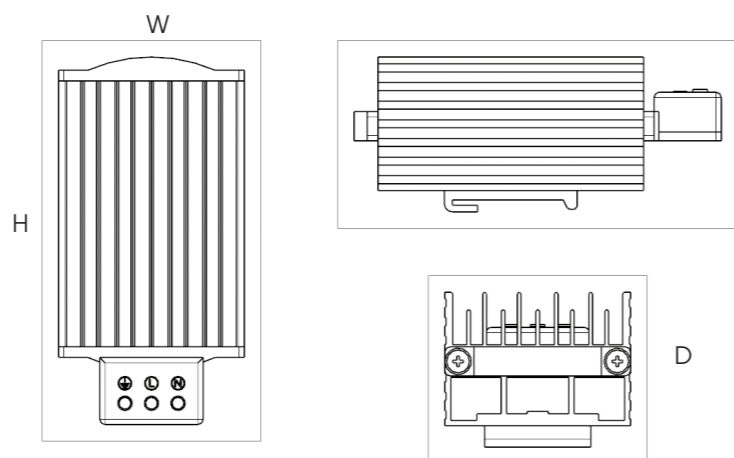
| Product Code | Power Supply (V AC) | Setting Range (%RH) | Colour of Potentiometer | Current (A) | Differential | Sensor type      | Electrical Connections | Electrical section wires                       | Operating Temperature (°C) | Storage Temperature (°C) | Protection Degree | Colour  | Mounting                           | Dimensions H x W x D | Weight (g) | Conformity |
|--------------|---------------------|---------------------|-------------------------|-------------|--------------|------------------|------------------------|--|----------------------------|--------------------------|-------------------|---------|------------------------------------|----------------------|------------|------------|
| DEHG02       | 110-250             | 10-90               | Black                   | 10-5        | %5, max, %10 | Polyamide ribbon | 3-pole terminal        | From 0.75mm <sup>2</sup> to 4.0mm <sup>2</sup> | +10 / +60                  | +10 / +60                | IP20              | RAL7035 | Clip for mounting on DIN rail 35mm | 105 x 60 x 55        | 180        | CE         |

## Typical Connection Diagrams

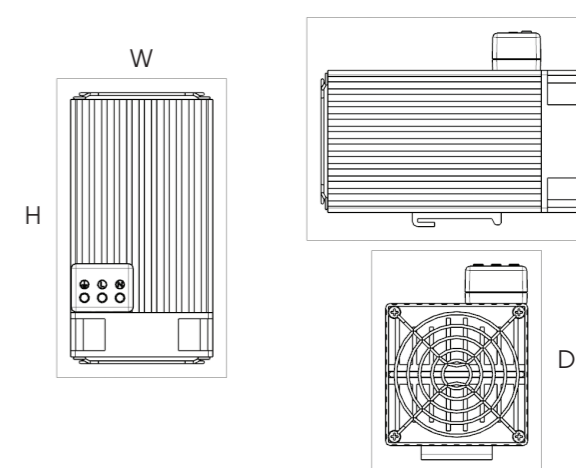


# Panel Heaters

PTC panel heaters



Panel heaters with fan



PTC Panel Heaters

| Product Code | Heating capacity (w) | Power supply (v) | Max current (A) | Heating element type          | Overcurrent protection      | Electrical Connections | Protection class IEC | Protection degree EN60529 | Operating Temperature (°C) | Storage Temperature (°C) | Radiator                     | Mounting                           | Installation Position                | Dimensions H x W x D | Weight (kg) | Conformity |
|--------------|----------------------|------------------|-----------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|----------------------------|--------------------------|------------------------------|------------------------------------|--------------------------------------|----------------------|-------------|------------|
| DEHT 030     | 30                   | 110-250V AC DC   | 2A              | PTC resistor, self regulating | Electronic thermal overload | 3-pole terminal N-L-E  | Class II             | IP20                      | -45 / +70                  | -45 / +70                | Alluminium profile, anodized | Clip for mounting on DIN rail 35mm | Best efficiency in vertical position | 128 x 70 x 59        | 0.41        | CE         |
| DEHT 050     | 50                   | 110-250V AC DC   | 2A              | PTC resistor, self regulating | Electronic thermal overload | 3-pole terminal N-L-E  | Class II             | IP20                      | -45 / +70                  | -45 / +70                | Alluminium profile, anodized | Clip for mounting on DIN rail 35mm | Best efficiency in vertical position | 138 x 70 x 59        | 0.44        | CE         |
| DEHT 075     | 75                   | 110-250V AC DC   | 4A              | PTC resistor, self regulating | Electronic thermal overload | 3-pole terminal N-L-E  | Class II             | IP20                      | -45 / +70                  | -45 / +70                | Alluminium profile, anodized | Clip for mounting on DIN rail 35mm | Best efficiency in vertical position | 178 x 70 x 59        | 0.54        | CE         |
| DEHT 100     | 100                  | 110-250V AC DC   | 4A              | PTC resistor, self regulating | Electronic thermal overload | 3-pole terminal N-L-E  | Class II             | IP20                      | -45 / +70                  | -45 / +70                | Alluminium profile, anodized | Clip for mounting on DIN rail 35mm | Best efficiency in vertical position | 188 x 70 x 59        | 0.59        | CE         |
| DEHT 150     | 150                  | 110-250V AC DC   | 6A              | PTC resistor, self regulating | Electronic thermal overload | 3-pole terminal N-L-E  | Class II             | IP20                      | -45 / +70                  | -45 / +70                | Alluminium profile, anodized | Clip for mounting on DIN rail 35mm | Best efficiency in vertical position | 228 x 70 x 59        | 0.72        | CE         |

Panel Heaters with Fan

| Product Code | Heating capacity (w) | Power supply (v) | Max current (A) | Heating element type | Axial Fan             | Overcurrent protection      | Electrical Connections | Protection class IEC | Protection degree EN60529 | Operating Temperature (°C) | Storage Temperature (°C) | Radiator                     | Mounting                           | Installation Position                | Dimensions H x W x D | Weight (kg) | Conformity |
|--------------|----------------------|------------------|-----------------|----------------------|-----------------------|-----------------------------|------------------------|----------------------|---------------------------|----------------------------|--------------------------|------------------------------|------------------------------------|--------------------------------------|----------------------|-------------|------------|
| DEFHT 250    | 250                  | 230V 50/60 Hz    | 1.2A            | Resistor Heater      | 80 x 80 x 25mm 35m³/h | Electronic thermal overload | 3-pole terminal N-L-E  | Class I, earthed     | IP2                       | -25 / +70                  | -25 / +70                | Alluminium profile, anodized | Clip for mounting on DIN rail 35mm | Best efficiency in vertical position | 158 x 80 x 110       | 0.98        | CE         |
| DEFHT 500    | 500                  | 230V 50/60 Hz    | 2.4A            | Resistor Heater      | 80 x 80 x 25mm 35m³/h | Electronic thermal overload | 3-pole terminal N-L-E  | Class I, earthed     | IP2                       | -25 / +70                  | -25 / +70                | Alluminium profile, anodized | Clip for mounting on DIN rail 35mm | Best efficiency in vertical position | 182 x 80 x 110       | 1.20        | CE         |
| DEFHT 750    | 750                  | 230V 50/60 Hz    | 3.6A            | Resistor Heater      | 80 x 80 x 25mm 35m³/h | Electronic thermal overload | 3-pole terminal N-L-E  | Class I, earthed     | IP2                       | -25 / +70                  | -25 / +70                | Alluminium profile, anodized | Clip for mounting on DIN rail 35mm | Best efficiency in vertical position | 232 x 80 x 110       | 1.45        | CE         |

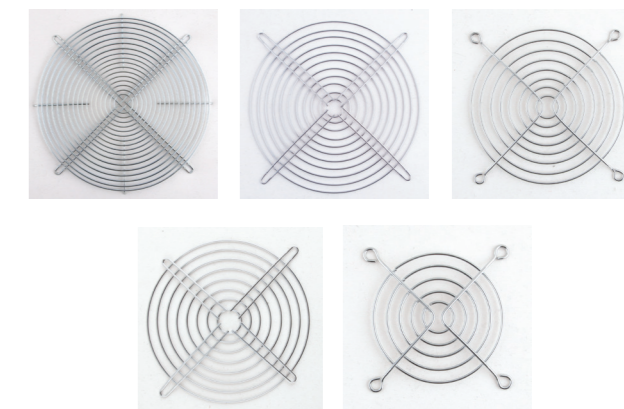
Accessories

| Product Code | Description            | Pack in Pcs |
|--------------|------------------------|-------------|
| DEFM1000     | Filter mat for PFI1000 | 10          |
| DEFM1500     | Filter mat for PFI1500 | 10          |
| DEFM2500     | Filter mat for PFI2500 | 10          |
| DEFM3000     | Filter mat for PFI3000 | 10          |



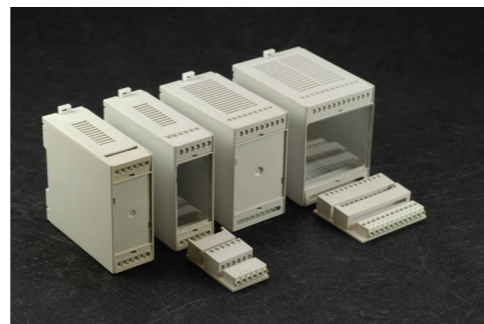
Accessories

| Product Code | Description                             | Pack in Pcs |
|--------------|---|-------------|
| DET0808      | Metallic protection grill for 80x80mm   | 100         |
| DET1212      | Metallic protection grill for 120x120mm | 100         |
| DET1717      | Metallic protection grill for 170x170mm | 100         |
| DET2020      | Metallic protection grill for 225x225mm | 100         |
| DET2525      | Metallic protection grill for 280x280mm | 100         |



## Additional products available from Hylec-APL

### Modular DIN Rail Mounted PCB Enclosures



This range from Hylec-APL's manufacturing division, DE Controls, consists of two different design styles. The DNMB (pyramid) design is available in 60mm and 73mm high versions with six length options between 18.5mm and 158.5mm; the DNCB (box) design is 100mm high and available with 36mm, 53.5mm and 71mm lengths. Unlike other products on the market that use snap-on extensions, both 60mm and 73mm versions are available as one piece solid moldings for improved structural integrity and all models share a uniform width of 90mm so they can be mounted on relevant 'Top Hat' DIN rails or surface mounted if required.

The housings, which are manufactured from flame retardant UL94-V0 polycarbonate and have an enclosed and insulated base, can house up to 3 PCBs horizontally and up to 4 PCBs vertically (depending on the model). A screw mounted heat sink can also be incorporated as necessary. Ventilated body styles are available as standard with a range of accessories to allow customisation of the product to specific requirements, including perforated and slotted terminal covers (IP20 finger protected) for pitches 5 / 7.5 / 10. Where possible, clear or red transparent covers can be specified which allow for internal viewing without removal.

Each unit is ergonomically designed to provide a well finished product that is practical to use and aesthetically pleasing.

The products are designed for snap-fit, easy, tool-less assembly which facilitates quick installation. Supplied as component items or specific kits including front panel and terminal cover options and relevant PCB terminal blocks, all the products are well suited to many different applications and industries including lighting controllers, circuit protection, energy management systems, power supplies and HVAC controls.

### Modular DIN Rail Mounted PCB Supports



A range of different sized modules that clip together to form an open front DIN rail support housing for PCB's between 20-177.5mm long. Longer lengths are possible by adding extra base elements but care should be taken regarding the weight of the PCB being supported. Side elements with integrated feet are only for top hat rail. The separate feet (DIME/M/FE0000SS) fit both G and top hat rail and can be used

- Suitable for 72mm width PCB's
- Modular construction for easy assembly
- Snap-fit DIN Rail mounting fixtures
- Flame retardant green Polyamide 66 UL 94V0
- Terminal blocks available in same colour
- Integral marker facility
- Registered Design No: 2106418®
- Also available in different colours

### PCB Terminal blocks

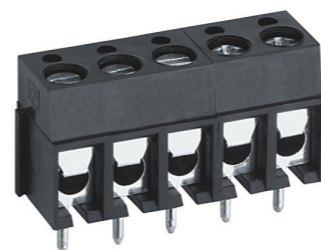
Complementing the electromechanical terminal blocks and connector products, Hylec also has a substantial range of PCB terminal blocks available with many available from stock. The range of product types is very diverse and

includes standard cable to pcb connectors along with plug/socket connections to pcb. Wire protection is supplied as standard and both single and double decker connectors are available within the range with connection technologies including standard

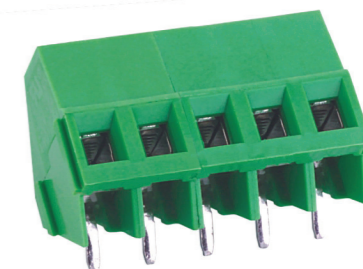
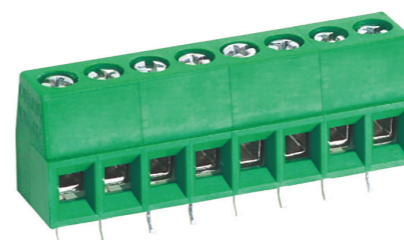
screw clamp, rising clamp, spring clamp and IDC. A range of pole sizes, cable diameters and current capacities are available and the following is just a sample of the products available.

#### Screw / clamp connectors:

TL Series: Pitch 3.5, 3.81, 5.0, 5.08, 7.5 / Poles 2-24



TL Series Clamp: Pitch 3.5, 3.81, 5.0, 5.08, 7.5 / Poles 2-24



TL Series Clamp Double Decker: Pitch 3.5, (3.81), 5.0 / Poles 2-24



TL Series Pluggable Connectors: Pitch 3.5, 3.81, 5.0, 5.08 / Poles 2-24

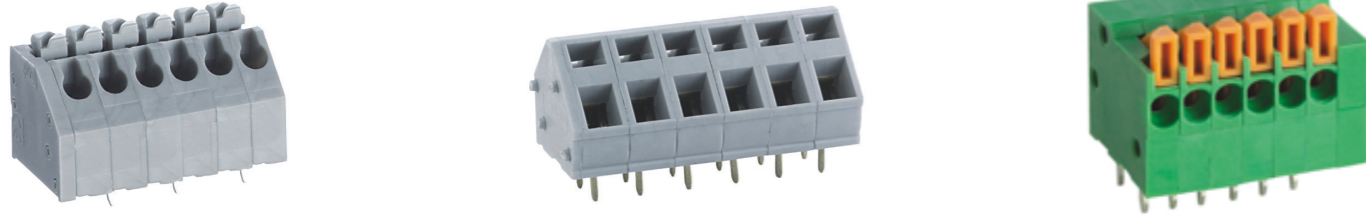




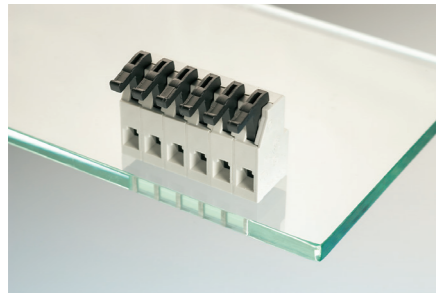
## PCB Terminal blocks

### Screwless / Springclamp connectors:

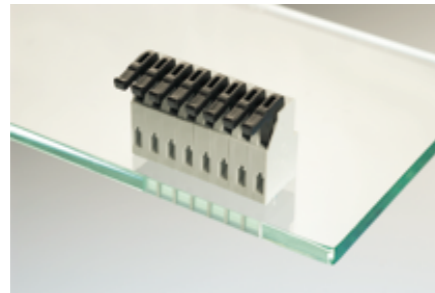
TLM Series: Pitch (mm) 2.5 (5.0/7.5), 3.5 (7.0/7.5), 5.0 (5.08), 5.0 (5.08/7.5/7.62/10.0/10.16), 2.54 / Poles 2-24  
 Wire size range (mm<sup>2</sup>) - 1.31-0.2, 2.08-0.33, 3.31-0.33, 3.31-1.31, 2.08-0.52, 3.31-0.82



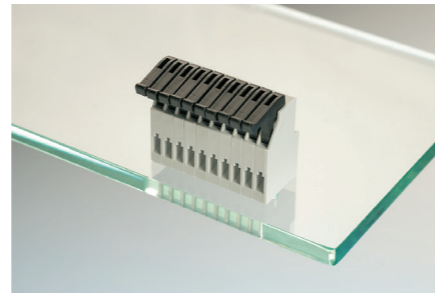
Series: AST025 Pitch (mm) 5.0 / Poles 2-12 (24)  
 Wire size range (mm<sup>2</sup>) - 0.08-1.0



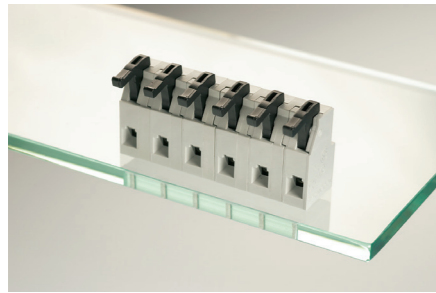
Series: AST024 Pitch (mm) 3.0 / Poles 2-12 (24)  
 Wire size range (mm<sup>2</sup>) - 0.08-0.5



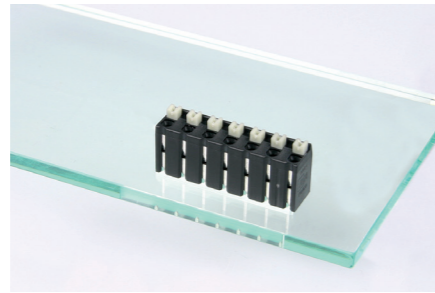
Series: AST021 Pitch (mm) 3.0 / Poles 2-12 (24)  
 Wire size range (mm<sup>2</sup>) - 0.08-0.5



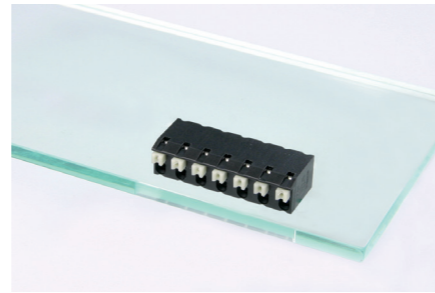
Series: AST027 Pitch (mm) 5.0 / Poles 2-12 (24)  
 Wire size range (mm<sup>2</sup>) - 0.08-1.0



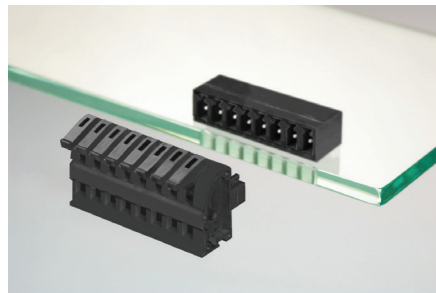
Series: AST215 Pitch (mm) 3.5 / Poles 2-8  
 Wire size range (mm<sup>2</sup>) - 0.25-1.5



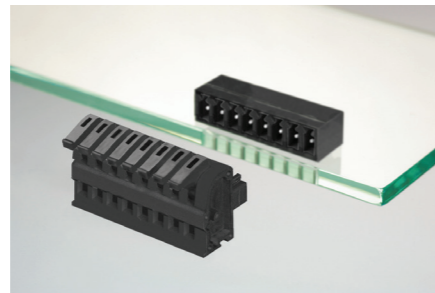
Series: AST225 Pitch (mm) 3.5 / Poles 2-8  
 Wire size range (mm<sup>2</sup>) - 0.25-1.5



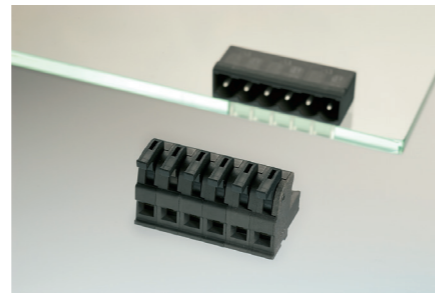
Series: ASP043 Pitch (mm) 4.0 / Poles 2-6 (12)  
 Wire size range (mm<sup>2</sup>) - 0.08-1.5



Series: ASP044 Pitch (mm) 4.0 / Poles 2-6 (12)  
 Wire size range (mm<sup>2</sup>) - 0.08-1.5



Series: ASP046 Pitch (mm) 5.0 / Poles 2-12 (24)  
 Wire size range (mm<sup>2</sup>) - 0.08-1.5



### Railway certified IP68 cable glands

The confined spaces and electrical hazards found in the railway industry means that safety requirements for components in these applications exceed most standard certifications. This new range of cable glands has been designed specifically to meet the requirements of the rail industry. Due to safety regulations, all electrical components used for applications within the industry must offer a high degree of fire resistance to help slow the spread of fire and noxious gasses in the event of an emergency. These products use a specialised flame proof polyamide (PA6) with a fire class V0 according to UL94 enabling the glands to be certified in accordance with the internationally recognised NF F 16-101 standard; they're also approved to UL514B for applications in the USA and Canada so are fully certified for use in railway applications for both the European and American rail industry. The IP68 dome topped cable gland uses traditional means to form a quick and secure connection with integrated cable anchorage is part of the design. To secure the relevant certifications the component is manufactured from a material which does not ignite under filament effect at 850°C (with a wall thickness of 0.5mm) and has a proven smoke gas index of I.F. ≤ 40. The cable glands are available with Metric and PG thread in either grey or black, can accommodate a wide range of cable diameters and will offers OEMs and electrical installers who work within the industry a quick, effective and safe solution for securing cable entry points.



**MAKING THE RIGHT CONNECTIONS**

Sales- T: +44 (0)1933 234 400 F: +44 (0)1933 234 411

e: sales@hylec-apl.com www.hylec-apl.com

# Further products available from Hylec-APL group companies

## Retex UK – Enclosures

**RETEX UK** has an exceptional range of enclosures, from hand-held electronic device cases through to hardy, lockable IP68 outdoor cabinets and many of the products can be supplied direct from stock. All our enclosures are designed and manufactured to the highest standards in our modern facility in Barcelona and the items shown opposite are just a few of the product styles available. Materials used range from ABS to Aluminium extrusions, steel and Diecast Aluminium.

**SERIES 31**  
Small and robust hand-held boxes. Keypads also available for this range.

**SERIES 32**  
Multipurpose had-held enclosures with a unique and functional snap-fit design

**SERIES 33**  
Innovative and unique enclosure concept

**SERIES 70**  
Multifunctional and modern design for indoor and outdoor applications

**SERIES 110**  
High quality, top design range of instrument cases

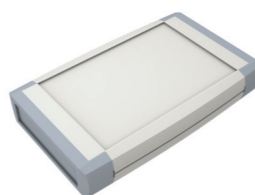
**SERIES 190**  
Sturdy and multipurpose 19" enclosure

**SERIES 68**  
Rugged Diecast Aluminium enclosures in a range of sizes suitable for a variety of applications.

SERIES 31



SERIES 32



SERIES 33



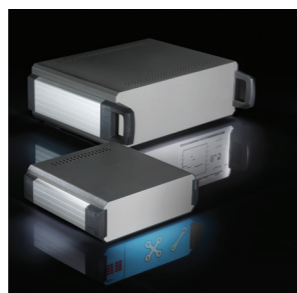
SERIES 70



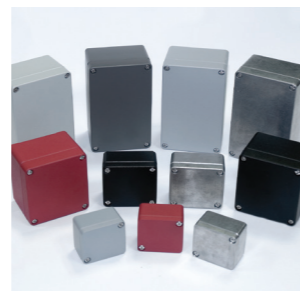
SERIES 190



SERIES 110



SERIES 68



## Retex UK – Racks

**LOGIC2** has been designed and developed for a wide range of applications in Cabling, IT, Datacentres, Telecommunications, Broadcasting, etc. LOGIC2 concept offers a light but extremely robust, quality product and can be delivered flat packed for ease of access to any awkward installation areas. The pre-assembled Flat-pack delivery offers incredibly fast and secure assembly - 8 bolts in just 5 minutes.

**Ecoo2** "Flat-pack" solution and inner freestanding steel structure. Preamsembled delivery "All in one Box". Fast and secure final assembly "Ready for installing equipment" just in 15 minutes. Reduces up to 70% the volume of a conventional rack, proportionally reducing the shipping and storage costs. Makes easier the handling until the final location

Choose from the Retex range of **Wall Mounted and Free Standing racks**. A new integral solution for networking, telecommunications and electronic equipment wall installations, the WITrack and easyRack concepts provide maximum benefit of accessibility, security and ease of installation

**LOGIC<sup>2</sup>**



**WITrack**  
WALL INSTALLATION TECHNOLOGY



## The Rack & Enclosure Company

Further information is available from Retex UK sales office or website...  
Sales Office Tel. +44(0)1933 234448 / e: info@retexuk.com  
[www.retexuk.com](http://www.retexuk.com)

## The Rack & Enclosure Company

Further information is available from Retex UK sales office or website...  
Sales Office Tel. +44(0)1933 234448 / e: info@retexuk.com  
[www.retexuk.com](http://www.retexuk.com)



**hylec**

T: +44 (0)1933 234400 ■ E: [sales@hylec-apl.com](mailto:sales@hylec-apl.com)  
F: +44 (0)1933 234411 ■ W: [www.hylec-apl.com](http://www.hylec-apl.com)

6 Stanton Close, Finedon Road Industrial Estate, Wellingborough, Northants, NN8 4HN