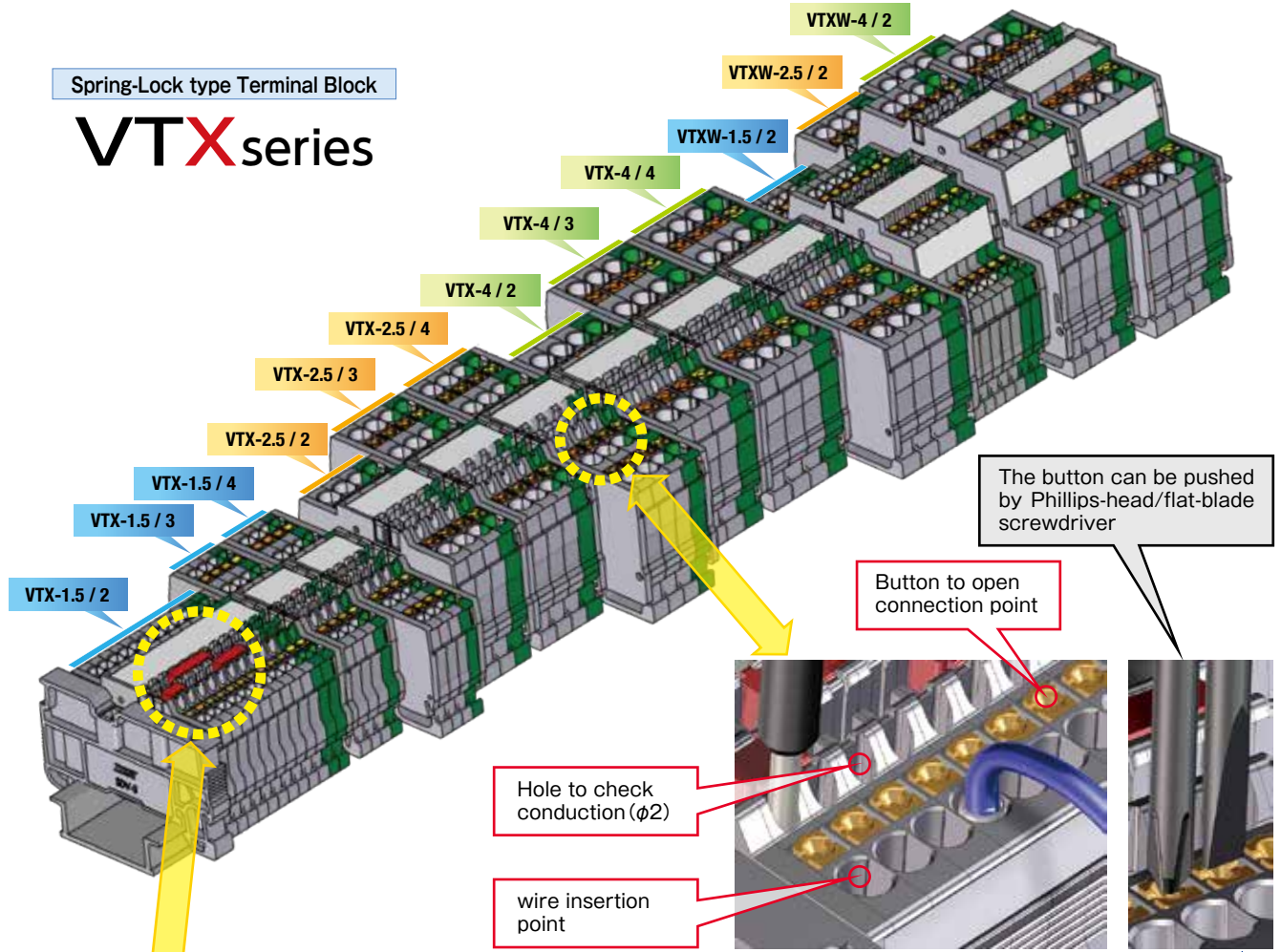


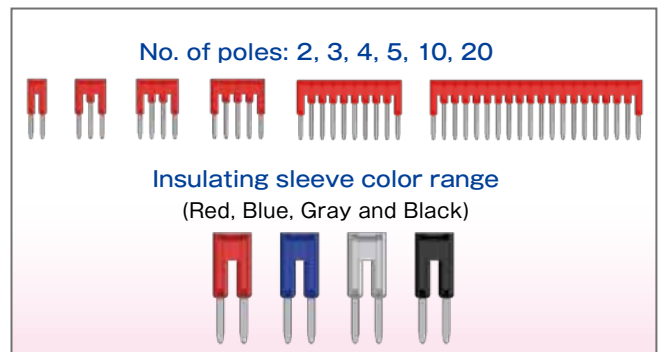
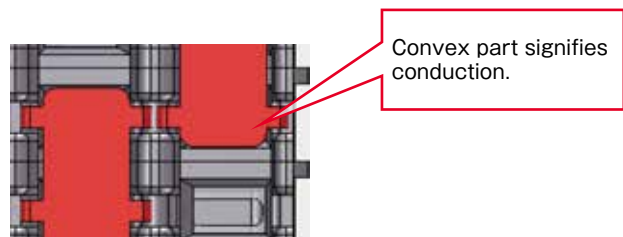
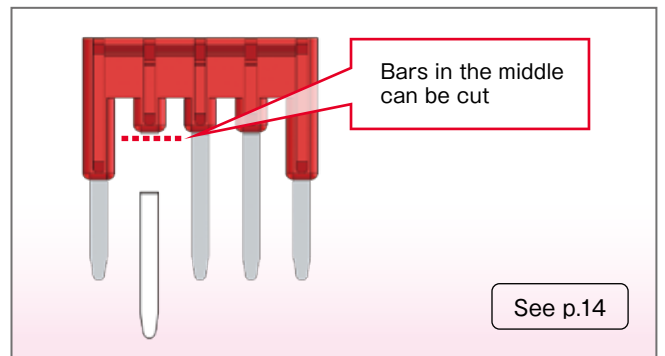
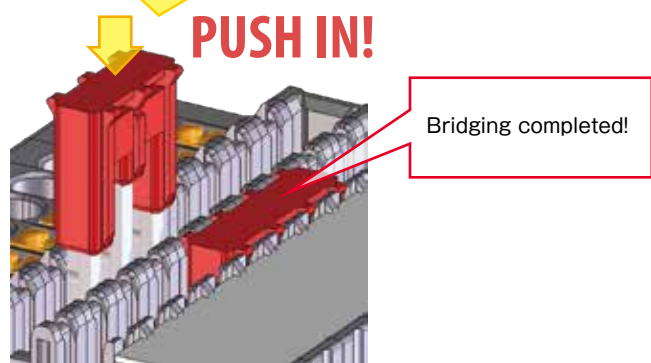
■ Products Details

Spring-Lock type Terminal Block

# VTXseries

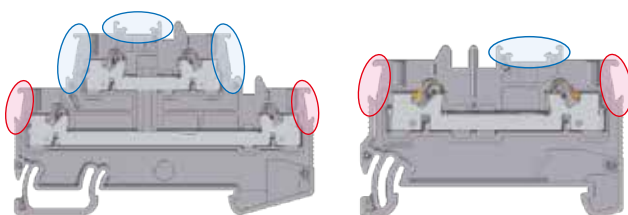
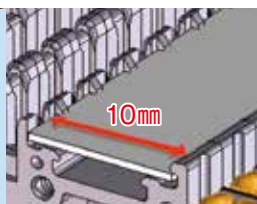


## Short Bar



## Installing Name Plates

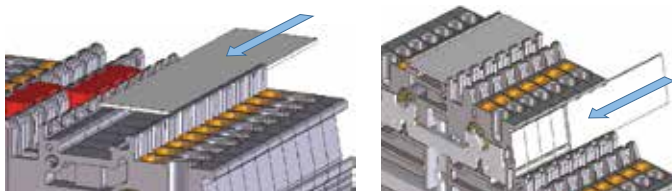
- ◆ Name plate width: 10mm
- ◆ 2 ways of installing methods
  - ① Insert a name plate from the sides
  - ② Insert a name plate from top



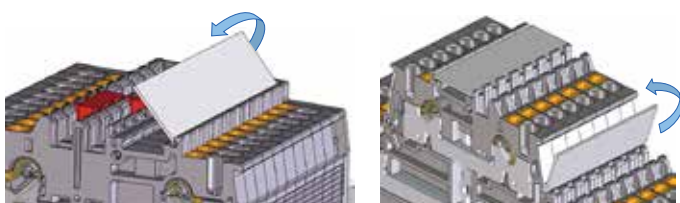
10mm width name plate fits here

6.5mm width name plate fits here

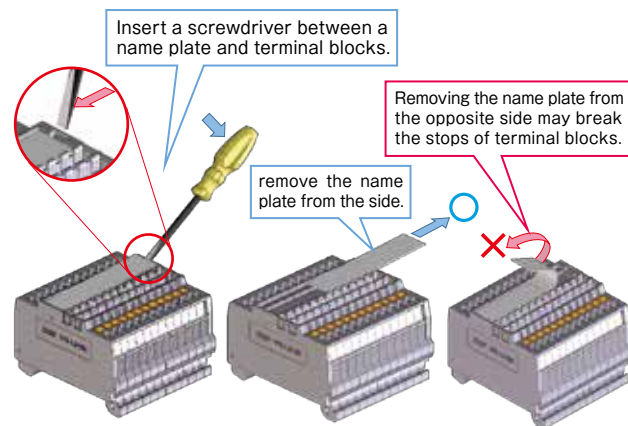
① Insert a name plate from the sides



② Insert a name plate from top

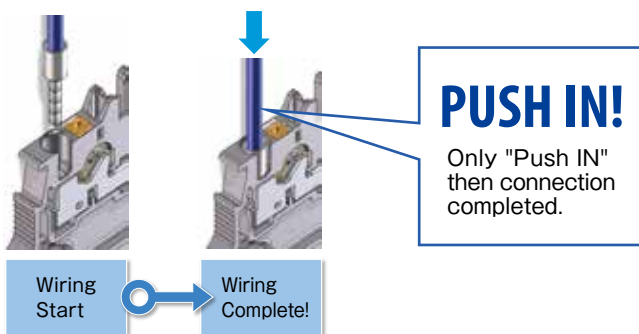


### ■ Name plate Removal

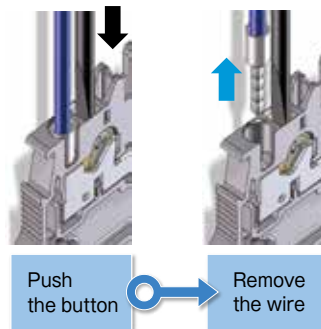


## How to Connect Wires to Terminal Block

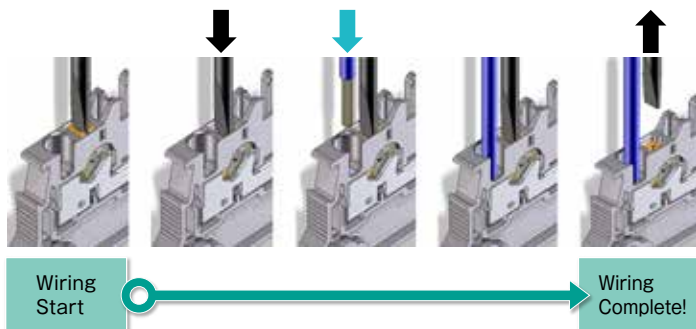
### ■ Ferrule/Solid wire



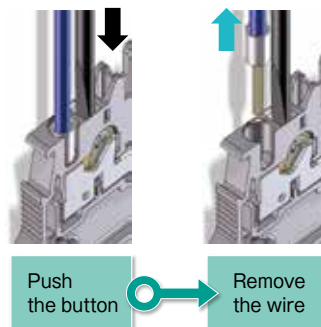
### Release the Connection



### ■ Stranded wire



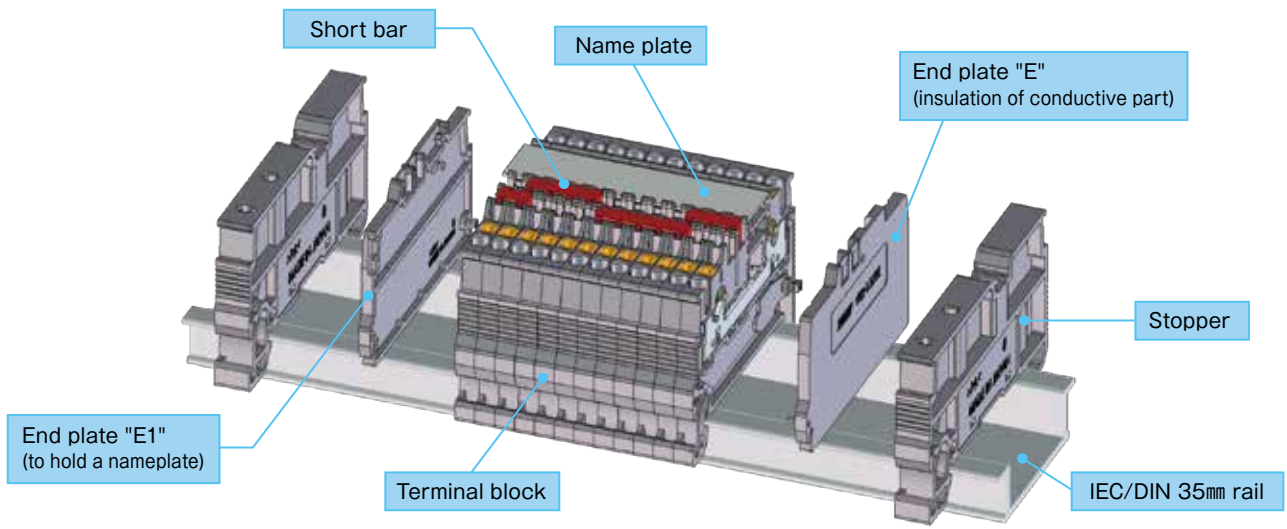
### Release the Connection



Push the button with a screwdriver, insert a wire all the way inside and remove the screwdriver.

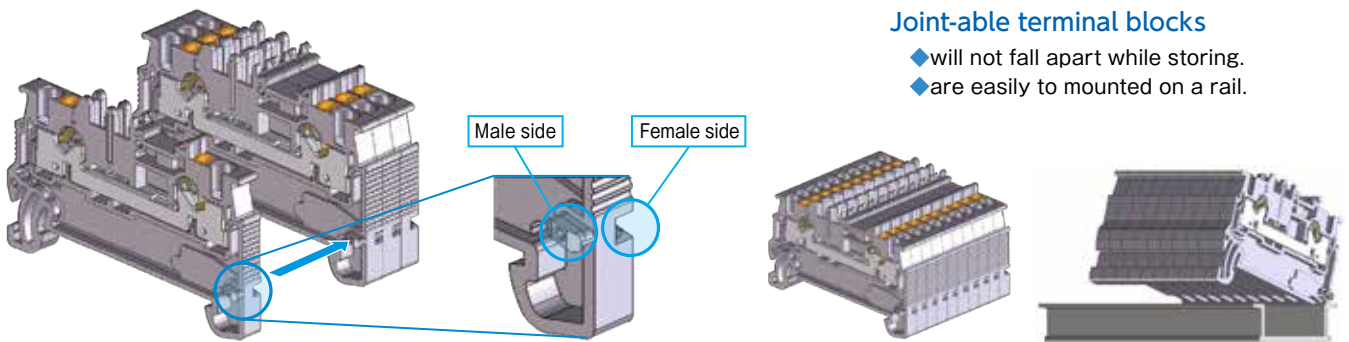


Basic Structure



※Please select and mount the applicable end plates (E&E1) on both sides of the terminal blocks.

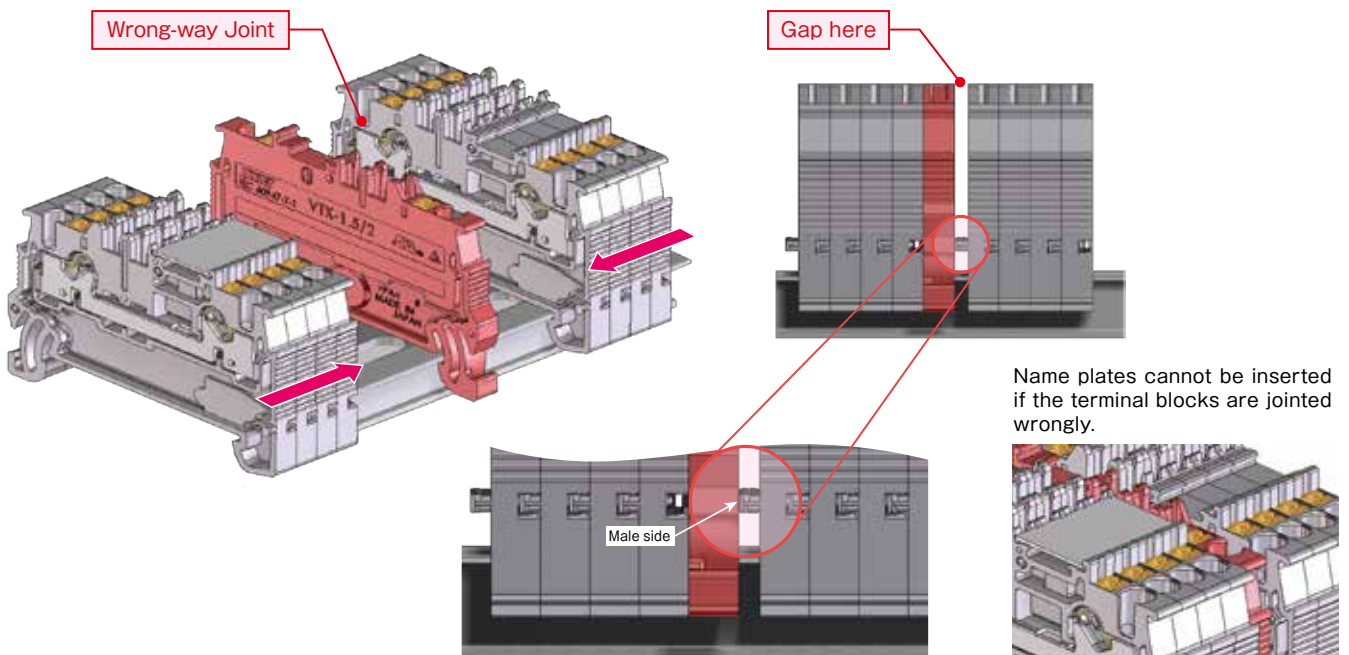
Jointed Terminal Blocks Structures



- Joint-able terminal blocks**
- ◆ will not fall apart while storing.
  - ◆ are easily to mounted on a rail.

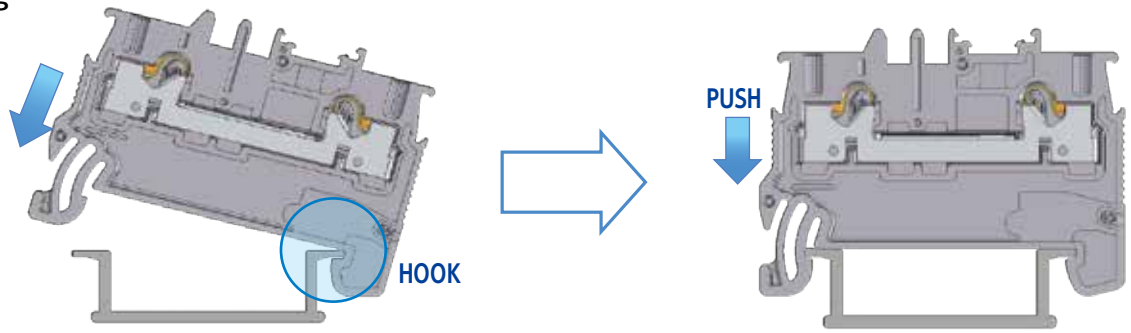
**Wrong-way Joint**

- ◆ Wrong-way joint makes a GAP between terminal blocks.

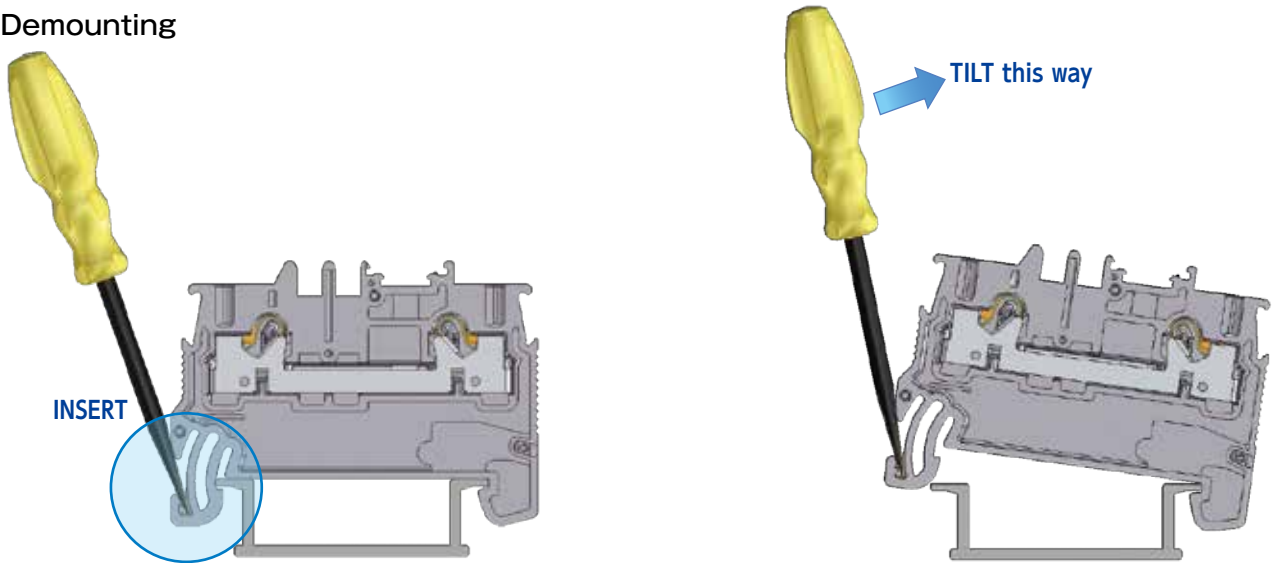


Mounting/Demounting on IEC35mm rail

■ Mounting

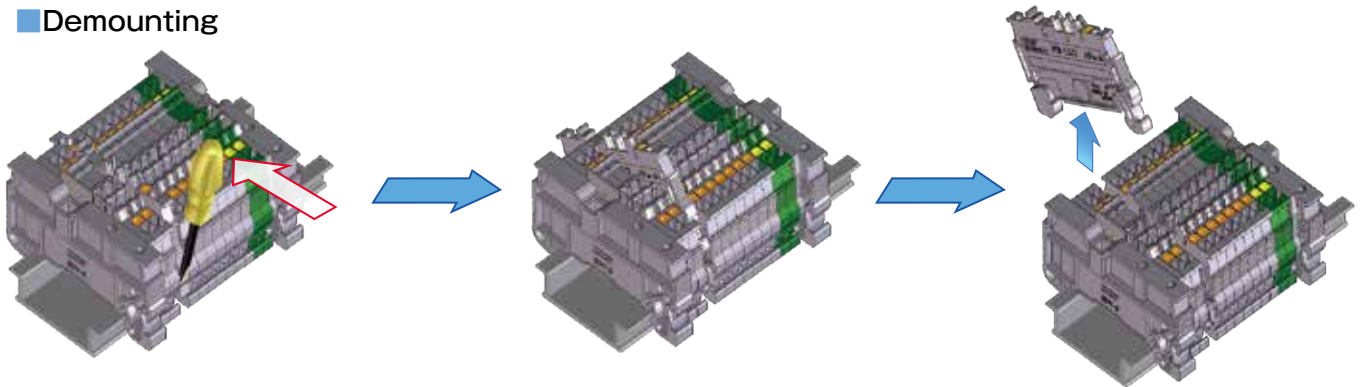


■ Demounting

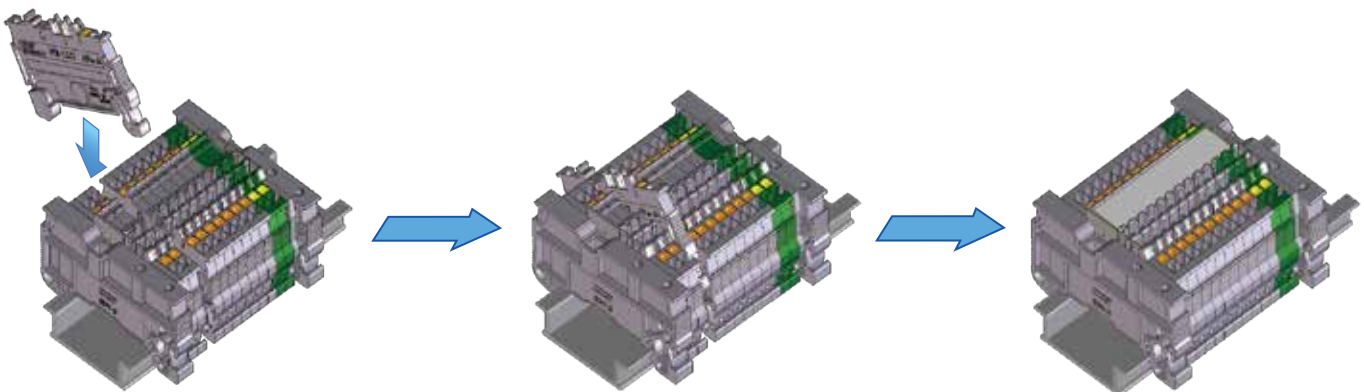


Replacement

■ Demounting



■ Mounting

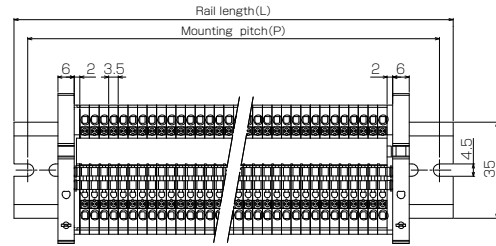


Assembled Terminal Blocks

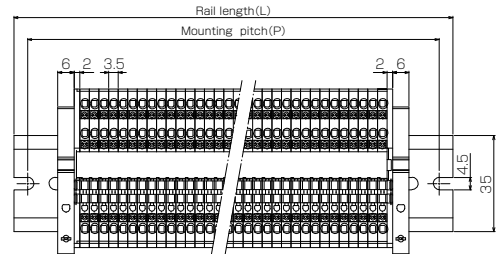
VTXL-1.5 series



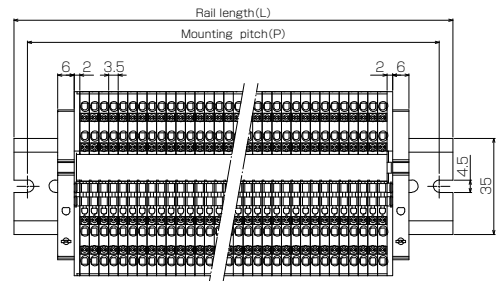
|            |                |  |                       |                             |
|------------|----------------|--|-----------------------|-----------------------------|
| Order form | Terminal Block | VTXL-1.5/2-□□-※※P                                      | Ground Terminal Block | VTXL-1.5/2-PE-※※P           |
|            | Accessories    | Color specification: N/A: Gray, BL: Blue; No. of poles |                       | No. of poles                |
| Body       | N/A            | VTX-1.5/2 Gray   |                       | VTX-1.5/2-PE                |
|            | BL             | VTX-1.5/2BL Blue                                       |                       |                             |
| End plate  |                | VTX-1.5/2E   |                       | VTX-1.5/2E                  |
|            |                | VTX-1.5/2E1  |                       | VTX-1.5/2E1                 |
| Name plate |                | AR-10  |                       | AR-10                       |
| Rail       |                | DAV4   |                       | DAV4 *Non-anodized aluminum |
| Stopper    |                | SDV-3  |                       | SDV-3                       |



|            |                |  |                       |                             |
|------------|----------------|--|-----------------------|-----------------------------|
| Order form | Terminal Block | VTXL-1.5/3-□□-※※P                                      | Ground Terminal Block | VTXL-1.5/3-PE-※※P           |
|            | Accessories    | Color specification: N/A: Gray, BL: Blue; No. of poles |                       | No. of poles                |
| Body       | N/A            | VTX-1.5/3 Gray   |                       | VTX-1.5/3-PE                |
|            | BL             | VTX-1.5/3BL Blue                                       |                       |                             |
| End plate  |                | VTX-1.5/3E   |                       | VTX-1.5/3E                  |
|            |                | VTX-1.5/3E1  |                       | VTX-1.5/3E1                 |
| Name plate |                | AR-10  |                       | AR-10                       |
| Rail       |                | DAV4   |                       | DAV4 *Non-anodized aluminum |
| Stopper    |                | SDV-3  |                       | SDV-3                       |



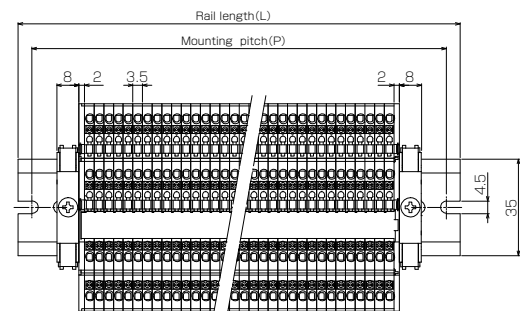
|            |                |  |                       |                             |
|------------|----------------|--|-----------------------|-----------------------------|
| Order form | Terminal Block | VTXL-1.5/4-□□-※※P                                      | Ground Terminal Block | VTXL-1.5/4-PE-※※P           |
|            | Accessories    | Color specification: N/A: Gray, BL: Blue; No. of poles |                       | No. of poles                |
| Body       | N/A            | VTX-1.5/4 Gray   |                       | VTX-1.5/4-PE                |
|            | BL             | VTX-1.5/4BL Blue                                       |                       |                             |
| End plate  |                | VTX-1.5/4E   |                       | VTX-1.5/4E                  |
|            |                | VTX-1.5/4E1  |                       | VTX-1.5/4E1                 |
| Name plate |                | AR-10  |                       | AR-10                       |
| Rail       |                | DAV4   |                       | DAV4 *Non-anodized aluminum |
| Stopper    |                | SDV-3  |                       | SDV-3                       |



VTXWL-1.5 series



|            |                |  |                       |                             |
|------------|----------------|--|-----------------------|-----------------------------|
| Order form | Terminal Block | VTXWL-1.5/2-□□-※※U                                     | Ground Terminal Block | VTXWL-1.5/2-PE-※※U          |
|            | Accessories    | Color specification: N/A: Gray, BL: Blue; No. of units |                       | No. of units                |
| Body       | N/A            | VTXW-1.5/2 Gray  |                       | VTXW-1.5/2-PE               |
|            | BL             | VTXW-1.5/2BL Blue                                      |                       |                             |
| End plate  |                | VTXW-1.5/2E  |                       | VTXW-1.5/2E                 |
|            |                | VTXW-1.5/2E1   |                       | VTXW-1.5/2E1                |
| Name plate |                | AR-10  |                       | AR-10                       |
| Rail       |                | DAV4   |                       | DAV4 *Non-anodized aluminum |
| Stopper    |                | GTY18  |                       | GTY18                       |

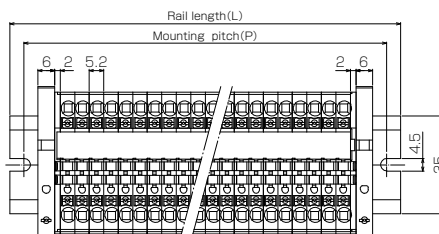




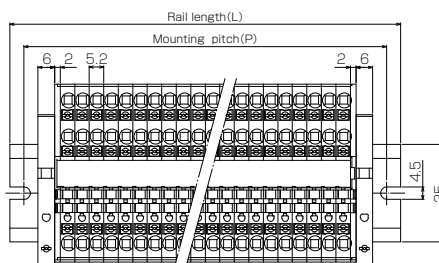
### VTXL-2.5 series



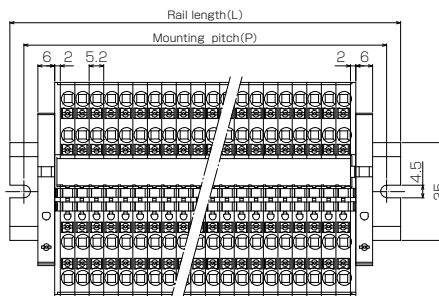
|             |   |  |
|-------------|---|--|
| Order form  | Terminal Block<br>VTXL-2.5/2□□-※※P                  | Ground Terminal Block<br>VTXL-2.5/2-PE-※※P |
| Accessories | Color specification N/A: Gray BL: Blue No. of poles | No. of poles                               |
| Body        | N/A VTX-2.5/2 Gray<br>BL VTX-2.5/2BL Blue           | VTX-2.5/2-PE                               |
| End plate   | VTX-2.5/2E<br>VTX-2.5/2E1                           | VTX-2.5/2E<br>VTX-2.5/2E1                  |
| Name plate  | AR-10   | AR-10                                      |
| Rail        | DAV4  | DAV4 *Non-anodized aluminum                |
| Stopper     | SDV-3   | SDV-3                                      |



|             |   |  |
|-------------|---|--|
| Order form  | Terminal Block<br>VTXL-2.5/3□□-※※P                  | Ground Terminal Block<br>VTXL-2.5/3-PE-※※P |
| Accessories | Color specification N/A: Gray BL: Blue No. of poles | No. of poles                               |
| Body        | N/A VTX-2.5/3 Gray<br>BL VTX-2.5/3BL Blue           | VTX-2.5/3-PE                               |
| End plate   | VTX-2.5/3E<br>VTX-2.5/3E1                           | VTX-2.5/3E<br>VTX-2.5/3E1                  |
| Name plate  | AR-10   | AR-10                                      |
| Rail        | DAV4  | DAV4 *Non-anodized aluminum                |
| Stopper     | SDV-3   | SDV-3                                      |



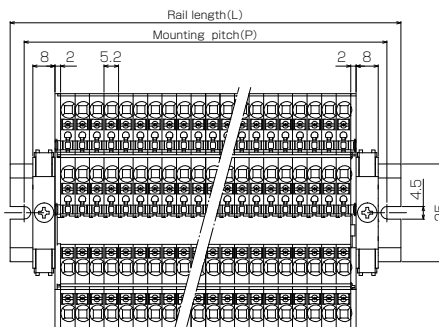
|             |   |  |
|-------------|---|--|
| Order form  | Terminal Block<br>VTXL-2.5/4□□-※※P                  | Ground Terminal Block<br>VTXL-2.5/4-PE-※※P |
| Accessories | Color specification N/A: Gray BL: Blue No. of poles | No. of poles                               |
| Body        | N/A VTX-2.5/4 Gray<br>BL VTX-2.5/4BL Blue           | VTX-2.5/4-PE                               |
| End plate   | VTX-2.5/4E<br>VTX-2.5/4E1                           | VTX-2.5/4E<br>VTX-2.5/4E1                  |
| Name plate  | AR-10   | AR-10                                      |
| Rail        | DAV4  | DAV4 *Non-anodized aluminum                |
| Stopper     | SDV-3   | SDV-3                                      |



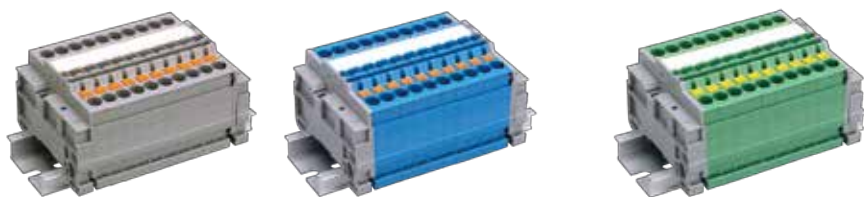
### VTXWL-2.5 series



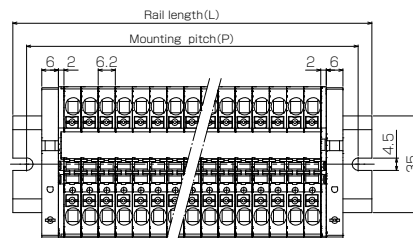
|             |   |   |
|-------------|---|---|
| Order form  | Terminal Block<br>VTXWL-2.5/2□□-※※U                 | Ground Terminal Block<br>VTXWL-2.5/2-PE-※※U |
| Accessories | Color specification N/A: Gray BL: Blue No. of units | No. of units                                |
| Body        | N/A VTXW-2.5/2 Gray<br>BL VTXW-2.5/2BL Blue         | VTXW-2.5/2-PE                               |
| End plate   | VTXW-2.5/2E<br>VTXW-2.5/2E1                         | VTXW-2.5/2E<br>VTXW-2.5/2E1                 |
| Name plate  | AR-10   | AR-10                                       |
| Rail        | DAV4  | DAV4 *Non-anodized aluminum                 |
| Stopper     | GTY18   | GTY18                                       |



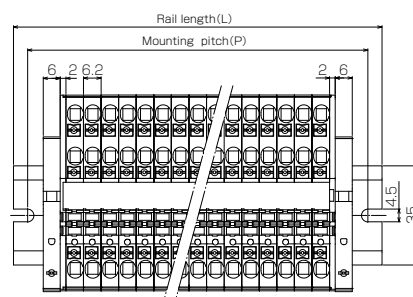
### VTXL-4series



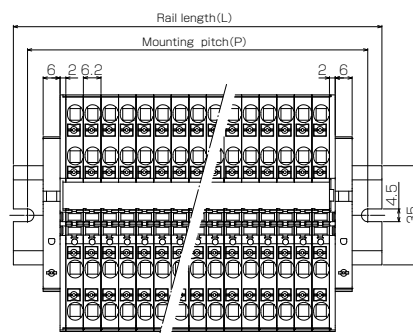
|            |                |  |                             |                 |
|------------|----------------|--|-----------------------------|-----------------|
| Order form | Terminal Block | VTXL-4/2□□-※※P                               | Ground Terminal Block       | VTXL-4/2-PE-※※P |
|            | Accessories    | Color specification<br>N/A: Gray<br>BL: Blue | No. of poles                | No. of poles    |
| Body       | N/A            | VTX-4/2 Gray                                 | VTX-4/2-PE                  |                 |
|            | BL             | VTX-4/2BL Blue                               |                             |                 |
| End plate  | VTX-4/2E       |  | VTX-4/2E                    |                 |
|            | VTX-4/2E1      |  | VTX-4/2E1                   |                 |
| Name plate | AR-10          |  | AR-10                       |                 |
| Rail       | DAV4           |  | DAV4 *Non-anodized aluminum |                 |
| Stopper    | SDV-3          |  | SDV-3                       |                 |



|            |                |  |                             |                 |
|------------|----------------|--|-----------------------------|-----------------|
| Order form | Terminal Block | VTXL-4/3□□-※※P                               | Ground Terminal Block       | VTXL-4/3-PE-※※P |
|            | Accessories    | Color specification<br>N/A: Gray<br>BL: Blue | No. of poles                | No. of poles    |
| Body       | N/A            | VTX-4/3 Gray                                 | VTX-4/3-PE                  |                 |
|            | BL             | VTX-4/3BL Blue                               |                             |                 |
| End plate  | VTX-4/3E       |  | VTX-4/3E                    |                 |
|            | VTX-4/3E1      |  | VTX-4/3E1                   |                 |
| Name plate | AR-10          |  | AR-10                       |                 |
| Rail       | DAV4           |  | DAV4 *Non-anodized aluminum |                 |
| Stopper    | SDV-3          |  | SDV-3                       |                 |



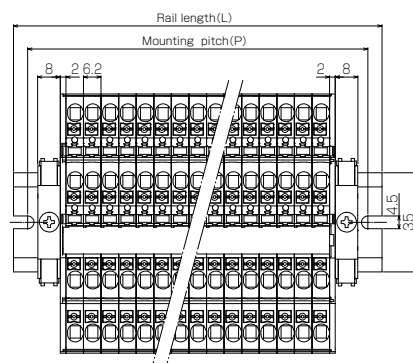
|            |                |  |                             |                 |
|------------|----------------|--|-----------------------------|-----------------|
| Order form | Terminal Block | VTXL-4/4□□-※※P                               | Ground Terminal Block       | VTXL-4/4-PE-※※P |
|            | Accessories    | Color specification<br>N/A: Gray<br>BL: Blue | No. of poles                | No. of poles    |
| Body       | N/A            | VTX-4/4 Gray                                 | VTX-4/4-PE                  |                 |
|            | BL             | VTX-4/4BL Blue                               |                             |                 |
| End plate  | VTX-4/4E       |  | VTX-4/4E                    |                 |
|            | VTX-4/4E1      |  | VTX-4/4E1                   |                 |
| Name plate | AR-10          |  | AR-10                       |                 |
| Rail       | DAV4           |  | DAV4 *Non-anodized aluminum |                 |
| Stopper    | SDV-3          |  | SDV-3                       |                 |



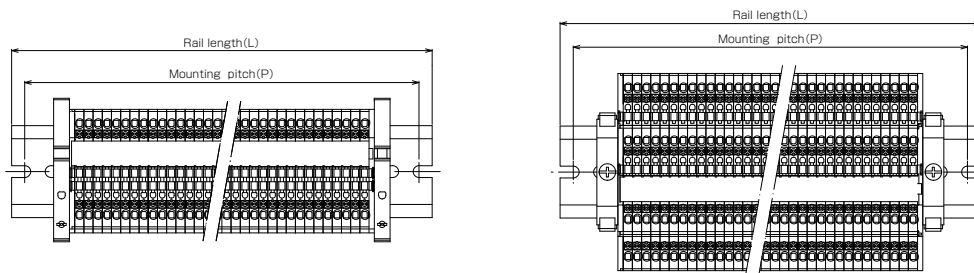
### VTXWL-4series



|            |                |  |                             |                  |
|------------|----------------|--|-----------------------------|------------------|
| Order form | Terminal Block | VTXWL-4/2□□-※※U                              | Ground Terminal Block       | VTXWL-4/2-PE-※※U |
|            | Accessories    | Color specification<br>N/A: Gray<br>BL: Blue | No. of units                | No. of units     |
| Body       | N/A            | VTXW-4/2 Gray                                | VTXW-4/2-PE                 |                  |
|            | BL             | VTXW-4/2BL Blue                              |                             |                  |
| End plate  | VTXW-4/2E      |  | VTXW-4/2E                   |                  |
|            | VTXW-4/2E1     |  | VTXW-4/2E1                  |                  |
| Name plate | AR-10          |  | AR-10                       |                  |
| Rail       | DAV4           |  | DAV4 *Non-anodized aluminum |                  |
| Stopper    | GTY18          |  | GTY18                       |                  |



# VTX series Dimensions Table



| Mounting pitch (P) | Rail length (L) | VTX-1.5/2<br>VTX-1.5/2-PE | VTX-1.5/3<br>VTX-1.5/3-PE | VTX-1.5/4<br>VTX-1.5/4-PE | VTXW-1.5/2<br>VTXW-1.5/2-PE | VTX-2.5/2<br>VTX-2.5/2-PE | VTX-2.5/3<br>VTX-2.5/3-PE | VTX-2.5/4<br>VTX-2.5/4-PE | VTXW-2.5/2<br>VTXW-2.5/2-PE | VTX-4/2<br>VTX-4/2-PE | VTX-4/3<br>VTX-4/3-PE | VTX-4/4<br>VTX-4/4-PE | VTXW-4/2<br>VTXW-4/2-PE | Mounting pitch (P) | Rail length (L) |
|--------------------|-----------------|---------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|-----------------------|-----------------------|-----------------------|-------------------------|--------------------|-----------------|
| mm                 | mm              | No. of poles              |                           |                           | No. of Unit                 | No. of poles              |                           |                           | No. of Unit                 | No. of poles          |                       |                       | No. of Unit             | mm                 | mm              |
| 30                 | 40              | 1                         | ~                         | 2                         | 1                           | 1                         |                           |                           | -                           | 1                     |                       |                       | -                       | 30                 | 40              |
| 50                 | 60              | 3                         | ~                         | 8                         | 2~7                         | 2                         | ~                         | 5                         | 1~4                         | 2                     | ~                     | 4                     | 1~4                     | 50                 | 60              |
| 70                 | 80              | 9                         | ~                         | 14                        | 8~12                        | 6                         | ~                         | 9                         | 5~8                         | 5                     | ~                     | 7                     | 5~7                     | 70                 | 80              |
| 90                 | 100             | 15                        | ~                         | 19                        | 13~18                       | 10                        | ~                         | 13                        | 9~12                        | 8                     | ~                     | 11                    | 8~10                    | 90                 | 100             |
| 110                | 120             | 20                        | ~                         | 25                        | 19~24                       | 14                        | ~                         | 17                        | 13~16                       | 12                    | ~                     | 14                    | 11~13                   | 110                | 120             |
| 130                | 140             | 26                        | ~                         | 31                        | 25~30                       | 18                        | ~                         | 20                        | 17~20                       | 15                    | ~                     | 17                    | 14~16                   | 130                | 140             |
| 150                | 160             | 32                        | ~                         | 36                        | 31~35                       | 21                        | ~                         | 24                        | 21~24                       | 18                    | ~                     | 20                    | 17~20                   | 150                | 160             |
| 170                | 180             | 37                        | ~                         | 42                        | 36~41                       | 25                        | ~                         | 28                        | 25~27                       | 21                    | ~                     | 24                    | 21~23                   | 170                | 180             |
| 190                | 200             | 43                        | ~                         | 48                        | 42~47                       | 29                        | ~                         | 32                        | 28~31                       | 25                    | ~                     | 27                    | 24~26                   | 190                | 200             |
| 210                | 220             | 49                        | ~                         | 54                        | 48~52                       | 33                        | ~                         | 36                        | 32~35                       | 28                    | ~                     | 30                    | 27~29                   | 210                | 220             |
| 230                | 240             | 55                        | ~                         | 59                        | 53~58                       | 37                        | ~                         | 40                        | 36~39                       | 31                    | ~                     | 33                    | 30~33                   | 230                | 240             |
| 250                | 260             | 60                        | ~                         | 65                        | 59~64                       | 41                        | ~                         | 44                        | 40~43                       | 34                    | ~                     | 36                    | 34~36                   | 250                | 260             |
| 270                | 280             | 66                        | ~                         | 71                        | 65~70                       | 45                        | ~                         | 47                        | 44~47                       | 37                    | ~                     | 40                    | 37~39                   | 270                | 280             |
| 290                | 300             | 72                        | ~                         | 76                        | 71~75                       | 48                        | ~                         | 51                        | 48~50                       | 41                    | ~                     | 43                    | 40~42                   | 290                | 300             |
| 310                | 320             | 77                        | ~                         | 82                        | 76~81                       | 52                        | ~                         | 55                        | 51~54                       | 44                    | ~                     | 46                    | 43~45                   | 310                | 320             |
| 330                | 340             | 83                        | ~                         | 88                        | 82~87                       | 56                        | ~                         | 59                        | 55~58                       | 47                    | ~                     | 49                    | 46~49                   | 330                | 340             |
| 350                | 360             | 89                        | ~                         | 94                        | 88~92                       | 60                        | ~                         | 63                        | 59~62                       | 50                    | ~                     | 53                    | 50~52                   | 350                | 360             |
| 370                | 380             | 95                        | ~                         | 99                        | 93~98                       | 64                        | ~                         | 67                        | 63~66                       | 54                    | ~                     | 56                    | 53~55                   | 370                | 380             |
| 390                | 400             | 100                       | ~                         | 105                       | 99~104                      | 68                        | ~                         | 70                        | 67~70                       | 57                    | ~                     | 59                    | 56~58                   | 390                | 400             |
| 410                | 420             | 106                       | ~                         | 111                       | 105~110                     | 71                        | ~                         | 74                        | 71~74                       | 60                    | ~                     | 62                    | 59~62                   | 410                | 420             |
| 430                | 440             | 112                       | ~                         | 116                       | 111~115                     | 75                        | ~                         | 78                        | 75~77                       | 63                    | ~                     | 65                    | 63~65                   | 430                | 440             |
| 450                | 460             | 117                       | ~                         | 122                       | 116~121                     | 79                        | ~                         | 82                        | 78~81                       | 66                    | ~                     | 69                    | 66~68                   | 450                | 460             |
| 470                | 480             | 123                       | ~                         | 128                       | 122~127                     | 83                        | ~                         | 86                        | 82~85                       | 70                    | ~                     | 72                    | 69~71                   | 470                | 480             |
| 490                | 500             | 129                       | ~                         | 134                       | 128~132                     | 87                        | ~                         | 90                        | 86~89                       | 73                    | ~                     | 75                    | 72~75                   | 490                | 500             |
| 510                | 520             | 135                       | ~                         | 139                       | 133~138                     | 91                        | ~                         | 94                        | 90~93                       | 76                    | ~                     | 78                    | 76~78                   | 510                | 520             |
| 530                | 540             | 140                       | ~                         | 145                       | 139~144                     | 95                        | ~                         | 97                        | 94~97                       | 79                    | ~                     | 82                    | 79~81                   | 530                | 540             |
| 550                | 560             | 146                       | ~                         | 151                       | 145~150                     | 98                        | ~                         | 101                       | 98~100                      | 83                    | ~                     | 85                    | 82~84                   | 550                | 560             |
| 570                | 580             | 152                       | ~                         | 156                       | 151~155                     | 102                       | ~                         | 105                       | 101~104                     | 86                    | ~                     | 88                    | 85~87                   | 570                | 580             |
| 590                | 600             | 157                       | ~                         | 162                       | 156~161                     | 106                       | ~                         | 109                       | 105~108                     | 89                    | ~                     | 91                    | 88~91                   | 590                | 600             |
| 610                | 620             | 163                       | ~                         | 168                       | 162~167                     | 110                       | ~                         | 113                       | 109~112                     | 92                    | ~                     | 95                    | 92~94                   | 610                | 620             |
| 630                | 640             | 169                       | ~                         | 174                       | 168~172                     | 114                       | ~                         | 117                       | 113~116                     | 96                    | ~                     | 98                    | 95~97                   | 630                | 640             |
| 650                | 660             | 175                       | ~                         | 179                       | 173~178                     | 118                       | ~                         | 120                       | 117~120                     | 99                    | ~                     | 101                   | 98~100                  | 650                | 660             |
| 670                | 680             | 180                       | ~                         | 185                       | 179~184                     | 121                       | ~                         | 124                       | 121~124                     | 102                   | ~                     | 104                   | 101~104                 | 670                | 680             |
| 690                | 700             | 186                       | ~                         | 191                       | 185~190                     | 125                       | ~                         | 128                       | 125~127                     | 105                   | ~                     | 107                   | 105~107                 | 690                | 700             |
| 710                | 720             | 192                       | ~                         | 196                       | 191~195                     | 129                       | ~                         | 132                       | 128~131                     | 108                   | ~                     | 111                   | 108~110                 | 710                | 720             |
| 730                | 740             | 197                       | ~                         | 202                       | 196~201                     | 133                       | ~                         | 136                       | 132~135                     | 112                   | ~                     | 114                   | 111~113                 | 730                | 740             |
| 750                | 760             | 203                       | ~                         | 208                       | 202~207                     | 137                       | ~                         | 140                       | 136~139                     | 115                   | ~                     | 117                   | 114~116                 | 750                | 760             |
| 770                | 780             | 209                       | ~                         | 214                       | 208~212                     | 141                       | ~                         | 144                       | 140~143                     | 118                   | ~                     | 120                   | 117~120                 | 770                | 780             |
| 790                | 800             | 215                       | ~                         | 219                       | 214~218                     | 145                       | ~                         | 147                       | 144~147                     | 121                   | ~                     | 124                   | 121~123                 | 790                | 800             |
| 810                | 820             | 220                       | ~                         | 225                       | 219~224                     | 148                       | ~                         | 151                       | 148~150                     | 125                   | ~                     | 127                   | 124~126                 | 810                | 820             |
| 830                | 840             | 226                       | ~                         | 231                       | 225~230                     | 152                       | ~                         | 155                       | 151~154                     | 128                   | ~                     | 130                   | 127~129                 | 830                | 840             |
| 850                | 860             | 232                       | ~                         | 236                       | 231~235                     | 156                       | ~                         | 159                       | 155~158                     | 131                   | ~                     | 133                   | 130~133                 | 850                | 860             |
| 870                | 880             | 237                       | ~                         | 242                       | 236~241                     | 160                       | ~                         | 163                       | 159~162                     | 134                   | ~                     | 136                   | 134~136                 | 870                | 880             |
| 890                | 900             | 243                       | ~                         | 248                       | 242~247                     | 164                       | ~                         | 167                       | 163~166                     | 137                   | ~                     | 140                   | 137~139                 | 890                | 900             |
| 910                | 920             | 249                       | ~                         | 254                       | 248~252                     | 168                       | ~                         | 170                       | 167~170                     | 141                   | ~                     | 143                   | 140~142                 | 910                | 920             |
| 930                | 940             | 255                       | ~                         | 259                       | 253~258                     | 171                       | ~                         | 174                       | 171~174                     | 144                   | ~                     | 146                   | 143~145                 | 930                | 940             |
| 950                | 960             | 260                       | ~                         | 265                       | 259~264                     | 175                       | ~                         | 178                       | 175~177                     | 147                   | ~                     | 149                   | 146~149                 | 950                | 960             |
| 970                | 980             | 266                       | ~                         | 271                       | 265~270                     | 179                       | ~                         | 182                       | 178~181                     | 150                   | ~                     | 153                   | 150~152                 | 970                | 980             |
| 990                | 1000            | 272                       | ~                         | 275                       | 271~275                     | 183                       | ~                         | 186                       | 182~185                     | 154                   | ~                     | 156                   | 153~155                 | 990                | 1000            |

※Rail=DAV/DAS series



Accessories & Tools

Short bar



- BX1.5 500V/17.5A
- BX2.5 800V/24A
- BX4 800V/32A

Order form

B BX 1.5 -2

: No. of poles  
2, 3, 4, 5, 10, 20  
: Terminal blocks model name  
1.5, 2.5, 4

: Color of insulation part

B: Black R: Red G: Gray BL: Blue



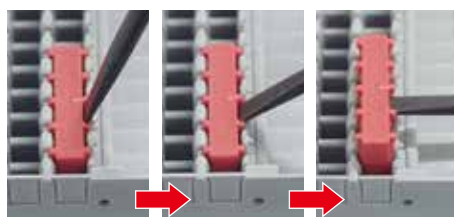
| Series  | No. of poles | Part No.  |           |           |            | Materials                                   | Weight (g) | Sales lot |
|---------|--------------|-----------|-----------|-----------|------------|---|------------|-----------|
|         |              | B: Black  | R: Red    | G: Gray   | BL: Blue   |   |            |           |
| VTX-1.5 | 2            | BBX1.5-2  | RBX1.5-2  | GBX1.5-2  | BLBX1.5-2  | Copper alloy (Tin plating)<br>PA (UL94 V-0) | 0.7        | 10        |
|         | 3            | BBX1.5-3  | RBX1.5-3  | GBX1.5-3  | BLBX1.5-3  |   | 1.0        | 10        |
|         | 4            | BBX1.5-4  | RBX1.5-4  | GBX1.5-4  | BLBX1.5-4  |   | 1.4        | 10        |
|         | 5            | BBX1.5-5  | RBX1.5-5  | GBX1.5-5  | BLBX1.5-5  |   | 1.7        | 10        |
|         | 10           | BBX1.5-10 | RBX1.5-10 | GBX1.5-10 | BLBX1.5-10 |   | 3.4        | 10        |
|         | 20           | BBX1.5-20 | RBX1.5-20 | GBX1.5-20 | BLBX1.5-20 |   | 6.8        | 10        |
| VTX-2.5 | 2            | BBX2.5-2  | RBX2.5-2  | GBX2.5-2  | BLBX2.5-2  | Copper alloy (Tin plating)<br>PA (UL94 V-0) | 1.5        | 10        |
|         | 3            | BBX2.5-3  | RBX2.5-3  | GBX2.5-3  | BLBX2.5-3  |   | 2.3        | 10        |
|         | 4            | BBX2.5-4  | RBX2.5-4  | GBX2.5-4  | BLBX2.5-4  |   | 3.1        | 10        |
|         | 5            | BBX2.5-5  | RBX2.5-5  | GBX2.5-5  | BLBX2.5-5  |   | 3.8        | 10        |
|         | 10           | BBX2.5-10 | RBX2.5-10 | GBX2.5-10 | BLBX2.5-10 |   | 7.7        | 10        |
|         | 20           | BBX2.5-20 | RBX2.5-20 | GBX2.5-20 | BLBX2.5-20 |   | 15.4       | 10        |
| VTX-4   | 2            | BBX4-2    | RBX4-2    | GBX4-2    | BLBX4-2    | Copper alloy (Tin plating)<br>PA (UL94 V-0) | 1.7        | 10        |
|         | 3            | BBX4-3    | RBX4-3    | GBX4-3    | BLBX4-3    |   | 2.6        | 10        |
|         | 4            | BBX4-4    | RBX4-4    | GBX4-4    | BLBX4-4    |   | 3.5        | 10        |
|         | 5            | BBX4-5    | RBX4-5    | GBX4-5    | BLBX4-5    |   | 4.4        | 10        |
|         | 10           | BBX4-10   | RBX4-10   | GBX4-10   | BLBX4-10   |   | 8.9        | 10        |
|         | 20           | BBX4-20   | RBX4-20   | GBX4-20   | BLBX4-20   |   | 17.9       | 10        |

① Inserting short bar



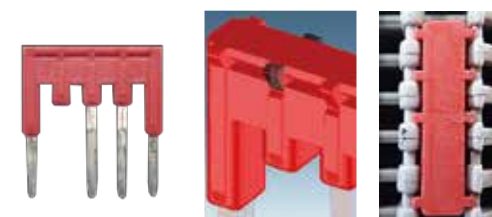
Insert short bar until the end (until the upper part of the short bar and the upper surface of the terminal block become the same level)

② Removing short bar



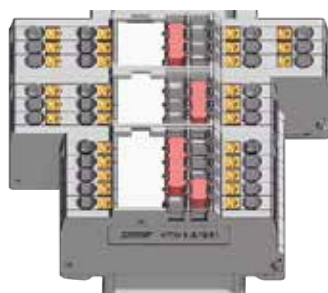
Insert a screwdriver between a short bar and terminal blocks then lift up. 2-4poles...lift the center of the short bar 5poles or more... lift each end alternately

Position-Skipping

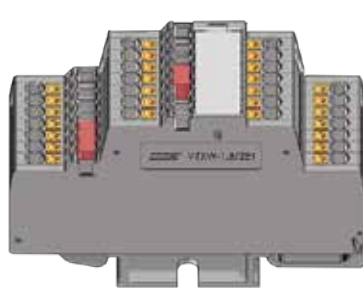


VTX2.5 and VTX4 must be operated at the rated voltage 600V.

Skipped position can be figured by cutting convex part.



VTX/2, VTX/3 and VTX/4 Short bar holes in double rows.



VTXW (two-stage terminal block) Short bar holes in single row on the upper and lower stage.

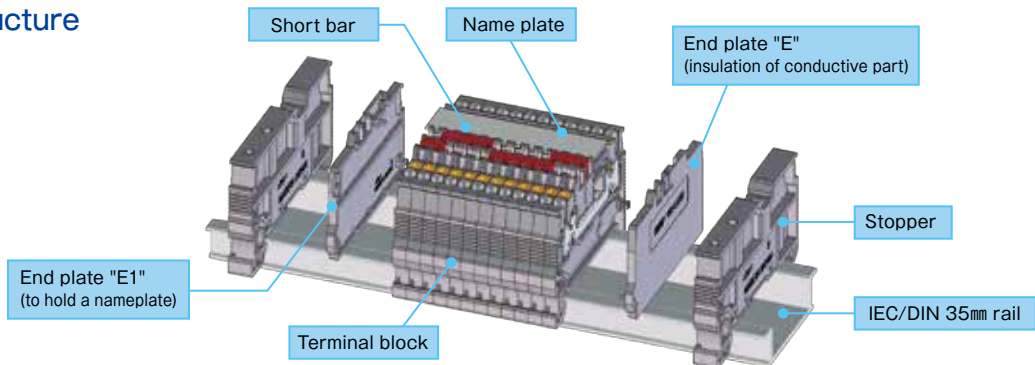


Please be careful not to break resin parts of a short bar during processing.



Do not cut bars at the ends

Basic Structure













\*Please select and mount the applicable end plates (E&E1) on both sides of the terminal blocks.

End Plate

\*Please order E and E1 together.

| Terminal Block | Order No.    | Purpose of use                | Weight (g) | Materials     | Sales lot | Fig. |
|----------------|--------------|-------------------------------|------------|---------------|-----------|------|
| VTX-1.5/2      | VTX-1.5/2E   | Insulation of conductive part | 1.6        | PA (UL94 V-0) | 10        |      |
|                | VTX-1.5/2E1  | To hold a nameplate           | 1.6        |               | 10        |      |
| VTX-1.5/3      | VTX-1.5/3E   | Insulation of conductive part | 2          |               | 10        |      |
|                | VTX-1.5/3E1  | To hold a nameplate           | 2          |               | 10        |      |
| VTX-1.5/4      | VTX-1.5/4E   | Insulation of conductive part | 2.3        |               | 10        |      |
|                | VTX-1.5/4E1  | To hold a nameplate           | 2.3        |               | 10        |      |
| VTXW-1.5/2     | VTXW-1.5/2E  | Insulation of conductive part | 3.3        |               | 10        |      |
|                | VTXW-1.5/2E1 | To hold a nameplate           | 3.3        |               | 10        |      |
| VTX-2.5/2      | VTX-2.5/2E   | Insulation of conductive part | 2.3        |               | 10        |      |
|                | VTX-2.5/2E1  | To hold a nameplate           | 2.3        |               | 10        |      |
| VTX-2.5/3      | VTX-2.5/3E   | Insulation of conductive part | 2.9        |               | 10        |      |
|                | VTX-2.5/3E1  | To hold a nameplate           | 2.9        |               | 10        |      |
| VTX-2.5/4      | VTX-2.5/4E   | Insulation of conductive part | 3.4        |               | 10        |      |
|                | VTX-2.5/4E1  | To hold a nameplate           | 3.4        |               | 10        |      |

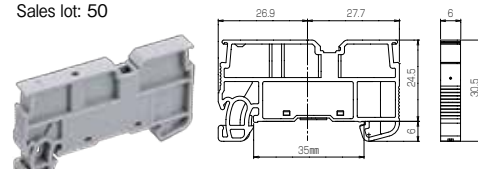
|            |              |                               |      |               |    |   |
|------------|--------------|-------------------------------|------|---------------|----|---|
| VTXW-2.5/2 | VTXW-2.5/2E  | Insulation of conductive part | 4.8  | PA (UL94 V-0) | 10 |    |
|            | VTXW-2.5/2E1 | To hold a nameplate           | 4.8  |               | 10 |    |
| VTX-4/2    | VTX-4/2E     | Insulation of conductive part | 2.45 |               | 10 |    |
|            | VTX-4/2E1    | To hold a nameplate           | 2.45 |               | 10 |    |
| VTX-4/3    | VTX-4/3E     | Insulation of conductive part | 3.1  |               | 10 |    |
|            | VTX-4/3E1    | To hold a nameplate           | 3.1  |               | 10 |    |
| VTX-4/4    | VTX-4/4E     | Insulation of conductive part | 3.6  |               | 10 |    |
|            | VTX-4/4E1    | To hold a nameplate           | 3.6  |               | 10 |    |
| VTXW-4/2   | VTXW-4/2E    | Insulation of conductive part | 5.1  |               | 10 |   |
|            | VTXW-4/2E1   | To hold a nameplate           | 5.1  |               | 10 |  |

### Stopper

| Order No. | Rail                   | Series  | Applicable model          |                           |                           |
|-----------|------------------------|---------|---------------------------|---------------------------|---------------------------|
| SDV-3     | DAVseries<br>DASseries | VTX-1.5 | VTX-1.5/2<br>VTX-1.5/3-PE | VTX-1.5/2-PE<br>VTX-1.5/4 | VTX-1.5/3<br>VTX-1.5/4-PE |
|           |                        | VTX-2.5 | VTX-2.5/2<br>VTX-2.5/3-PE | VTX-2.5/2-PE<br>VTX-2.5/4 | VTX-2.5/3<br>VTX-2.5/4-PE |
|           |                        | VTX-4   | VTX-4/2<br>VTX-4/3-PE     | VTX-4/2-PE<br>VTX-4/4     | VTX-4/3<br>VTX-4/4-PE     |

**SDV-3**


Material: PA66 (UL94V-0)  
Weight: 6.3g  
Sales lot: 50



|       |                        |         |   |  |                           |
|-------|------------------------|---------|---|--|---------------------------|
| GTY18 | DAVseries<br>DASseries | VTX-1.5 | VTX-1.5/2<br>VTX-1.5/3-PE<br>VTXW-1.5/2 | VTX-1.5/2-PE<br>VTX-1.5/4<br>VTXW-1.5/2-PE | VTX-1.5/3<br>VTX-1.5/4-PE |
|       |                        | VTX-2.5 | VTX-2.5/2<br>VTX-2.5/3-PE<br>VTXW-2.5/2 | VTX-2.5/2-PE<br>VTX-2.5/4<br>VTXW-2.5/2-PE | VTX-2.5/3<br>VTX-2.5/4-PE |
|       |                        | VTX-4   | VTX-4/2<br>VTX-4/3-PE<br>VTXW-4/2       | VTX-4/2-PE<br>VTX-4/4<br>VTXW-4/2-PE       | VTX-4/3<br>VTX-4/4-PE     |

**GTY18**

Material: SPCC  
Weight: 20g  
Sales lot: 50



### Name Plate



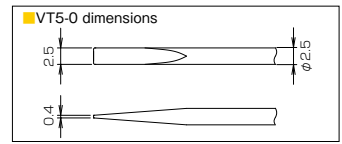
| Order No.   | Dimensions        | Weight    | Sales lot |
|-------------|-------------------|-----------|-----------|
| AP-6.5      | 0.5t×6.5w×900L    | 4.5g/1pcs | 50pcs     |
| AR-6.5(25)  | 0.5t×6.5w×25(m)L  | 130g      | 1roll     |
| AR-6.5(100) | 0.5t×6.5w×100(m)L | 470g      | 1roll     |
| AM-10       | 0.5t×10w×1200L    | 9g/1pcs   | 50pcs     |
| AR-10(25)   | 0.5t×10w×25(m)L   | 200g      | 1roll     |
| AR-10(100)  | 0.5t×10w×100(m)L  | 770g      | 1roll     |



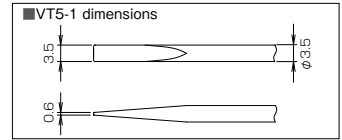
## Recommended Tools

※ If use screwdrivers other than the ones below, use the screwdrivers comply with DIN5264.

- Screwdriver VT5-0 (Weight: 40g)  
\*VTX-1.5series



- Screwdriver VT5-1 (Weight: 43g)  
\*VTX-2.5series, VTX-4series



## Rail



DAV & DAS series compliant with IEC60715/DIN46277, standardized dimension width 35mm.

Order No.

**DAV4-1000**

↑ : Length of rail  
↑ : Name of series

| series | Rail length(L)         | Sales lot                     |
|--------|------------------------|-------------------------------|
| DAV4   | 1000mm<br>or<br>2000mm | 1000mm=100pcs<br>2000mm=50pcs |
| DAS4   |                        |                               |
| DAV5   |                        |                               |
| DAS5   |                        |                               |

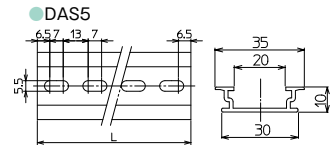
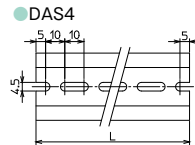
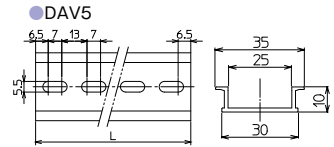
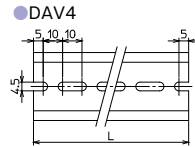
● DAV series



● DAS series



■ Dimensions



※ Rails used as ground conductors

- DAV4 (KIJI) -1000 / 2000
- DAV5 (KIJI) -1000 / 2000

## Flat Tube

Order No. TMC-□

- Inner diameter
- 1.5 : φ 2.0
  - 2 : φ 2.3
  - 3 : φ 3.9
  - 4 : φ 4.5
  - 7 : φ 7.3

Ambient temperature : -10°C ~ +60°C

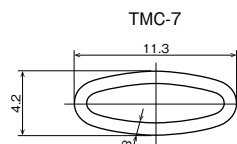
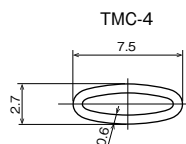
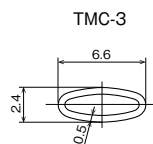
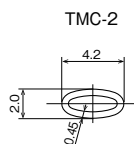
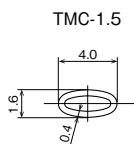
- Rating
- Insulation resistance: 1,000MΩ or more
  - Withstand voltage: 5,000/min



| Part No.      | Inner diameter | Applicable wire          | Color   | Material                    | 1 roll/case | Sales lot |
|---------------|----------------|--------------------------|---|-----------------------------|-------------|-----------|
| TMC-1.5 (BTO) | φ 2.0          | AWG28~22 (0.08mm~0.34mm) | White (standard)<br>Black<br>Red<br>Blue<br>Green<br>Yellow | Flexible polyvinyl chloride | 200m/roll   | 1 case    |
| TMC-2         | φ 2.3          | AWG26~18 (0.12mm~0.75mm) |   |                             |             |           |
| TMC-3         | φ 3.9          | AWG22~14 (0.34mm~2mm)    |   |                             |             |           |
| TMC-4         | φ 4.5          | AWG18~12 (0.75mm~3.5mm)  |   |                             |             |           |
| TMC-7         | φ 7.3          | AWG12~8 (3.5mm~8mm)      |   |                             | 100m/roll   |           |

※ Flat tubes in black, red, blue, green and yellow are BTO items. (Sales lot: 5 rolls)

■ Dimensions



## References

# Spring-Lock Terminal Block Reliability Test

The electrical and mechanical performances of VTX series terminal block are proven by the bending test and the pull-out test accordance with IEC/JIS standard, and the vibration test and the shock test accordance with NECA C 2811.

## Bending Test: Flexion Test

IEC60947-7-1/-2  
JIS C 8201-7-1/-2

A vertically fixed terminal block is connected to a wire and a test weight corresponding to the cross section is attached at the end of the wire.

The wire turned about 135 times in a row, at a rate of  $10 \pm 2$  turns/min.



| Cross section   |     | Mass |
|-----------------|-----|------|
| mm <sup>2</sup> | AWG | kg   |
| 0.2             | 24  | 0.2  |
| 0.34            | 22  | 0.2  |
| 0.5             | 20  | 0.3  |
| 0.75            | 18  | 0.4  |
| 1               |     | 0.4  |
| 1.5             | 16  | 0.4  |
| 2.5             | 14  | 0.7  |
| 4               | 12  | 0.9  |

## Pull-out Test

IEC60947-7-1/-2  
JIS C 8201-7-1/-2

After Bending/Flexion test, the terminal point must withstand a given tensile force based on the cross section for 60 seconds.



| Cross section   |     | Tensile force |
|-----------------|-----|---------------|
| mm <sup>2</sup> | AWG | N             |
| 0.2             | 24  | 10            |
| 0.34            | 22  | 15            |
| 0.5             | 20  | 20            |
| 0.75            | 18  | 30            |
| 1               |     | 35            |
| 1.5             | 16  | 40            |
| 2.5             | 14  | 50            |
| 4               | 12  | 60            |

## Vibration Test

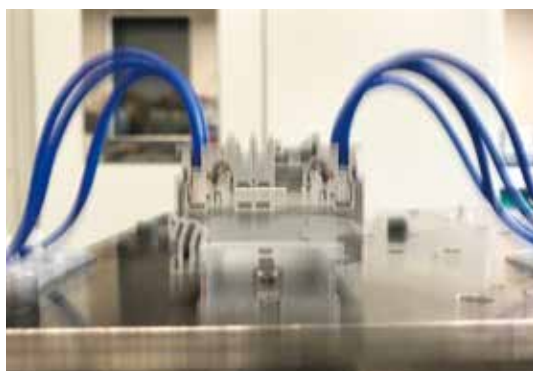
NECA C 2811

Frequency range: 10-55Hz

Sweep time:1min.

The test objects are tested for 2 hours on each of the three axes (X, Y, Z) and monitored with OSC for electric contact confirmation.

No contact interruptions  $> 1 \mu\text{s}$  are permitted during the test.



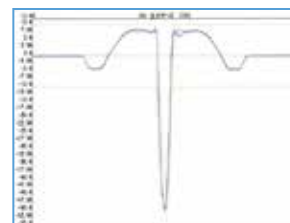
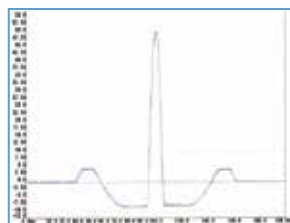
## Shock Test

NECA C 2811

Maximum accelerations:  $490 \text{ m/s}^2$  (50G)

The test objects are tested with a shock duration of 11ms on each of the six axes ( $\pm X$ ,  $\pm Y$ ,  $\pm Z$ ) 5 times each and monitored with OSC for electric contact confirmation.

No contact interruptions  $> 1 \mu\text{s}$  are permitted during the test.

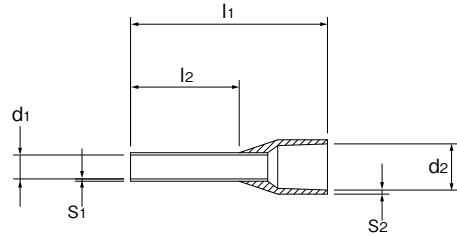


■ Ferrule

# Ferrule

## DIN-compliant Ferrules with insulating sleeves

$l_1$  = Total length  
 $l_2$  = Conductive part length  
 $d_1$  = Inner diameter of conductive part  
 $s_1$  = Wall thickness of conductive part  
 $d_2$  = Inner diameter of insulating sleeve  
 $s_2$  = Wall thickness of insulating sleeve



| Image | Electric wire cross section |                 |       | Color range of insulating sleeve |            | Part No.    | Sales Lot (pcs/pkg.) | $l_1$<br>+0.5<br>-0 | $l_2$<br>$\pm 0.2$ | $d_1$<br>+0<br>-0.05 | $s_1$ | $d_2$<br>+0.1<br>-0 | $s_2$<br>+0<br>-0.05 | Recommended stripping length<br>mm |
|-------|-----------------------------|-----------------|-------|----------------------------------|------------|-------------|----------------------|---------------------|--------------------|----------------------|-------|---------------------|----------------------|------------------------------------|
|       | mm <sup>2</sup>             | mm <sup>2</sup> | AWG   | Color                            | Color code |             |                      |                     |                    |                      |       |                     |                      |                                    |
|       | 0.14                        | /               | 26    | GY                               | D/W        | TA0.14-8GY  | 100                  | 12                  | 8                  | 0.8                  | 0.15  | 1.9                 | 0.3                  | 10                                 |
|       | 0.25                        | /               | 26-24 | BU                               | W          | TA0.25-6BU  | 100                  | 10                  | 6                  | 0.8                  | 0.15  | 1.9                 | 0.3                  | 8                                  |
|       | 0.25                        | /               | 26-24 | BU                               | W          | TA0.25-8BU  | 100                  | 12                  | 8                  | 0.8                  | 0.15  | 1.9                 | 0.3                  | 10                                 |
|       | 0.25                        | /               | 26-24 | BU                               | W          | TA0.25-12BU | 100                  | 16                  | 12                 | 0.8                  | 0.15  | 1.9                 | 0.3                  | 14                                 |
|       | 0.25                        | /               | 26-24 | YE                               | D          | TA0.25-8YE  | 100                  | 12                  | 8                  | 0.8                  | 0.15  | 1.9                 | 0.3                  | 10                                 |
|       | 0.25                        | /               | 26-24 | YE                               | D          | TA0.25-10YE | 100                  | 14                  | 10                 | 0.8                  | 0.15  | 1.9                 | 0.3                  | 12                                 |
|       | 0.34                        | /               | 24-22 | TQ                               | D/W        | TA0.34-6TQ  | 100                  | 10                  | 6                  | 0.8                  | 0.15  | 1.9                 | 0.3                  | 8                                  |
|       | 0.34                        | /               | 24-22 | TQ                               | D/W        | TA0.34-8TQ  | 100                  | 12                  | 8                  | 0.8                  | 0.15  | 1.9                 | 0.3                  | 10                                 |
|       | 0.34                        | /               | 24-22 | TQ                               | D/W        | TA0.34-10TQ | 100                  | 14                  | 10                 | 0.8                  | 0.15  | 1.9                 | 0.3                  | 12                                 |
|       | 0.34                        | /               | 24-22 | TQ                               | D/W        | TA0.34-12TQ | 100                  | 16                  | 12                 | 0.8                  | 0.15  | 1.9                 | 0.3                  | 14                                 |
|       | 0.5 (0.5)                   | /               | 20    | WH                               | D          | TA0.5-6WH   | 100                  | 12                  | 6                  | 1.1                  | 0.15  | 2.4                 | 0.3                  | 9                                  |
|       | 0.5 (0.5)                   | /               | 20    | WH                               | D          | TA0.5-8WH   | 100                  | 14                  | 8                  | 1.1                  | 0.15  | 2.4                 | 0.3                  | 11                                 |
|       | 0.5 (0.5)                   | /               | 20    | WH                               | D          | TA0.5-10WH  | 100                  | 16                  | 10                 | 1.1                  | 0.15  | 2.4                 | 0.3                  | 13                                 |
|       | 0.5 (0.5)                   | /               | 20    | WH                               | D          | TA0.5-12WH  | 100                  | 18                  | 12                 | 1.1                  | 0.15  | 2.4                 | 0.3                  | 15                                 |
|       | 0.5 (0.5)                   | /               | 20    | OG                               | W          | TA0.5-10OG  | 100                  | 16                  | 10                 | 1.1                  | 0.15  | 2.4                 | 0.3                  | 13                                 |
|       | 0.75 (0.75)                 | /               | 20-18 | GY                               | D          | TA0.75-6GY  | 100                  | 12                  | 6                  | 1.3                  | 0.15  | 2.7                 | 0.3                  | 9                                  |
|       | 0.75 (0.75)                 | /               | 20-18 | GY                               | D          | TA0.75-8GY  | 100                  | 14                  | 8                  | 1.3                  | 0.15  | 2.7                 | 0.3                  | 11                                 |
|       | 0.75 (0.75)                 | /               | 20-18 | GY                               | D          | TA0.75-10GY | 100                  | 16                  | 10                 | 1.3                  | 0.15  | 2.7                 | 0.3                  | 13                                 |
|       | 0.75 (0.75)                 | /               | 20-18 | GY                               | D          | TA0.75-12GY | 100                  | 18                  | 12                 | 1.3                  | 0.15  | 2.7                 | 0.3                  | 15                                 |
|       | 0.75 (0.75)                 | /               | 20-18 | WH                               | W          | TA0.75-10WH | 100                  | 16                  | 10                 | 1.3                  | 0.15  | 2.7                 | 0.3                  | 13                                 |
|       | 1                           | /               | 18    | RD                               | D          | TA1-6RD     | 100                  | 12                  | 6                  | 1.5                  | 0.15  | 2.9                 | 0.3                  | 9                                  |
|       | 1                           | /               | 18    | RD                               | D          | TA1-8RD     | 100                  | 14                  | 8                  | 1.5                  | 0.15  | 2.9                 | 0.3                  | 11                                 |
|       | 1                           | /               | 18    | RD                               | D          | TA1-10RD    | 100                  | 16                  | 10                 | 1.5                  | 0.15  | 2.9                 | 0.3                  | 13                                 |
|       | 1                           | /               | 18    | RD                               | D          | TA1-12RD    | 100                  | 18                  | 12                 | 1.5                  | 0.15  | 2.9                 | 0.3                  | 15                                 |
|       | 1                           | /               | 18    | YE                               | W          | TA1-10YE    | 100                  | 16                  | 10                 | 1.5                  | 0.15  | 2.9                 | 0.3                  | 13                                 |
|       | 1.5 (1.25)                  | /               | 16    | BK                               | D          | TA1.5-6BK   | 100                  | 12                  | 6                  | 1.8                  | 0.15  | 3.3                 | 0.3                  | 9                                  |
|       | 1.5 (1.25)                  | /               | 16    | BK                               | D          | TA1.5-8BK   | 100                  | 14                  | 8                  | 1.8                  | 0.15  | 3.3                 | 0.3                  | 11                                 |
|       | 1.5 (1.25)                  | /               | 16    | BK                               | D          | TA1.5-10BK  | 100                  | 16.5                | 10                 | 1.8                  | 0.15  | 3.3                 | 0.3                  | 13                                 |
|       | 1.5 (1.25)                  | /               | 16    | BK                               | D          | TA1.5-12BK  | 100                  | 18.5                | 12                 | 1.8                  | 0.15  | 3.3                 | 0.3                  | 15                                 |
|       | 1.5 (1.25)                  | /               | 16    | RD                               | W          | TA1.5-10RD  | 100                  | 16.5                | 10                 | 1.8                  | 0.15  | 3.3                 | 0.3                  | 13                                 |
|       | 2.5 (2)                     | /               | 14    | BU                               | D/W        | TA2.5-8BU   | 100                  | 14.5                | 8                  | 2.3                  | 0.15  | 4.1                 | 0.3                  | 11                                 |
|       | 2.5 (2)                     | /               | 14    | BU                               | D/W        | TA2.5-10BU  | 100                  | 17                  | 10                 | 2.3                  | 0.15  | 4.1                 | 0.3                  | 13                                 |
|       | 2.5 (2)                     | /               | 14    | BU                               | D/W        | TA2.5-12BU  | 100                  | 18.5                | 12                 | 2.3                  | 0.15  | 4.1                 | 0.3                  | 15                                 |
|       | 4 (3.5)                     | /               | 12    | GY                               | D/W        | TA4-10GY    | 100                  | 17                  | 10                 | 2.9                  | 0.2   | 4.7                 | 0.3                  | 13                                 |
|       | 4 (3.5)                     | /               | 12    | GY                               | D/W        | TA4-12GY    | 100                  | 19                  | 12                 | 2.9                  | 0.2   | 4.7                 | 0.3                  | 15                                 |
|       | 6 (5.5)                     | /               | 10    | YE                               | D/W        | TA6-12YE    | 100                  | 20                  | 12                 | 3.6                  | 0.2   | 6.1                 | 0.3                  | 15                                 |
|       | 6 (5.5)                     | /               | 10    | BK                               | W          | TA6-12BK    | 100                  | 20                  | 12                 | 3.6                  | 0.2   | 6.1                 | 0.3                  | 15                                 |
|       | 10 (8)                      | /               | 8     | RD                               | D          | TA10-12RD   | 100                  | 21.5                | 12                 | 4.6                  | 0.2   | 7.4                 | 0.3                  | 15                                 |
|       | 10 (8)                      | /               | 8     | RD                               | D          | TA10-18RD   | 100                  | 27.5                | 18                 | 4.6                  | 0.2   | 7.4                 | 0.3                  | 21                                 |
|       | 16 (14)                     | /               | 6     | BU                               | D          | TA16-12BU   | 100                  | 23.5                | 12                 | 6                    | 0.2   | 8.7                 | 0.4                  | 16                                 |
|       | 16 (14)                     | /               | 6     | BU                               | D          | TA16-18BU   | 100                  | 28.5                | 18                 | 6                    | 0.2   | 8.7                 | 0.4                  | 22                                 |

\* ( ) = JIS standard cross section area

Material: E-CU  
 Surface treatment: Tin plating  
 Insulating sleeve: PP  
 Heatproof temperature: 105°C

● Color:

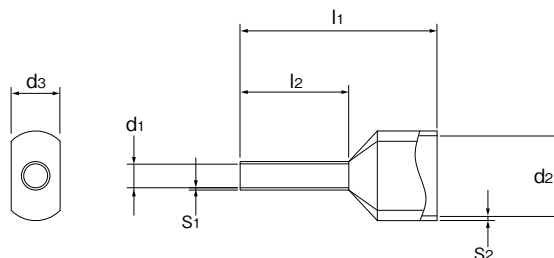
|      |       |      |        |           |       |     |        |
|------|-------|------|--------|-----------|-------|-----|--------|
| GY   | BK    | BU   | YE     | TQ        | WH    | RD  | OG     |
| Gray | Black | Blue | Yellow | Turquoise | White | Red | Orange |

● Color code: D=DIN46228-4  
 W=Weidmüller standard



## TWIN Ferrules

※TWIN ferrules can crimp two equally sized wires in one ferrule.



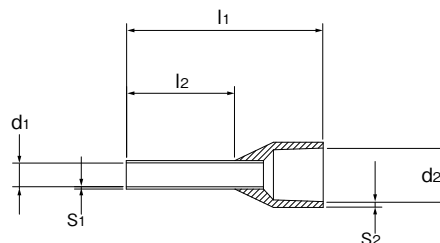
| Electric wire cross section |                 |   |                  | Color range of insulating sleeve |            | Part No.     | Sales Lot (pcs/pkg.) | l <sub>1</sub><br>+0.5<br>-0 | l <sub>2</sub><br>±0.2 | d <sub>1</sub><br>+0<br>-0.05 | S <sub>1</sub> | d <sub>2</sub><br>+0.1<br>-0 | d <sub>3</sub> | S <sub>2</sub><br>+0<br>-0.05 | Recommended stripping length<br>mm |
|-----------------------------|-----------------|---|------------------|----------------------------------|------------|--------------|----------------------|------------------------------|------------------------|-------------------------------|----------------|------------------------------|----------------|-------------------------------|------------------------------------|
| mm <sup>2</sup>             | mm <sup>2</sup> | / | AWG              | Color                            | Color code |              |                      |                              |                        |                               |                |                              |                |                               |                                    |
| 2 x 0.5                     | (2 x 0.5)       | / | 2 x 20           | WH                               | D          | TAW0.5-8WH   | 100                  | 15                           | 8                      | 1.5                           | 0.15           | 4.6                          | 2.4            | 0.3                           | 11                                 |
| 2 x 0.5                     | (2 x 0.5)       | / | 2 x 20           | WH                               | D          | TAW0.5-10WH  | 100                  | 17                           | 10                     | 1.5                           | 0.15           | 4.6                          | 2.4            | 0.3                           | 13                                 |
| 2 x 0.75                    | (2 x 0.75)      | / | 2 x 20<br>2 x 18 | GY                               | D          | TAW0.75-8GY  | 100                  | 15                           | 8                      | 1.8                           | 0.15           | 5.1                          | 2.7            | 0.3                           | 12                                 |
| 2 x 0.75                    | (2 x 0.75)      | / | 2 x 20<br>2 x 18 | GY                               | D          | TAW0.75-10GY | 100                  | 17                           | 10                     | 1.8                           | 0.15           | 5.1                          | 2.7            | 0.3                           | 14                                 |
| 2 x 1                       | (2 x 1.25)      | / | 2 x 18           | RD                               | D          | TAW1-8RD     | 100                  | 15                           | 8                      | 2.05                          | 0.15           | 5.3                          | 3.3            | 0.3                           | 12                                 |
| 2 x 1                       | (2 x 1.25)      | / | 2 x 18           | RD                               | D          | TAW1-10RD    | 100                  | 17                           | 10                     | 2.05                          | 0.15           | 5.3                          | 3.3            | 0.3                           | 14                                 |
| 2 x 1.5                     | (2 x 1.25)      | / | 2 x 16           | BK                               | D          | TAW1.5-8BK   | 100                  | 16                           | 8                      | 2.3                           | 0.15           | 6.5                          | 3.5            | 0.3                           | 12                                 |
| 2 x 1.5                     | (2 x 2)         | / | 2 x 16           | BK                               | D          | TAW1.5-10BK  | 100                  | 18                           | 10                     | 2.3                           | 0.15           | 6.5                          | 3.5            | 0.3                           | 14                                 |
| 2 x 1.5                     | (2 x 2)         | / | 2 x 16           | BK                               | D          | TAW1.5-12BK  | 100                  | 20                           | 12                     | 2.3                           | 0.15           | 6.5                          | 3.5            | 0.3                           | 16                                 |
| 2 x 2.5                     | /               | / | 2 x 14           | BU                               | D          | TAW2.5-10BU  | 100                  | 18.5                         | 10                     | 2.9                           | 0.2            | 7.7                          | 4.1            | 0.3                           | 14                                 |
| 2 x 2.5                     | /               | / | 2 x 14           | BU                               | D          | TAW2.5-13BU  | 100                  | 21.5                         | 13                     | 2.9                           | 0.2            | 7.7                          | 4.1            | 0.3                           | 17                                 |

※ ( ) = JIS standard cross section area

Material: E-CU  
 Surface treatment: Tin plating  
 Insulating sleeve: PP  
 Heatproof temperature: 105°C

## GB type Ferrules with insulating sleeve

GB type is for wires with thick insulating cover such as UL standard wires.



| Electric wire cross section |                 |   |       | Color range of insulating sleeve |            | Part No.       | Sales Lot (pcs/pkg.) | l <sub>1</sub><br>+0.5<br>-0 | l <sub>2</sub><br>±0.2 | d <sub>1</sub><br>+0<br>-0.05 | S <sub>1</sub> | d <sub>2</sub><br>+0.1<br>-0 | S <sub>2</sub><br>+0<br>-0.05 | Recommended stripping length<br>mm |
|-----------------------------|-----------------|---|-------|----------------------------------|------------|----------------|----------------------|------------------------------|------------------------|-------------------------------|----------------|------------------------------|-------------------------------|------------------------------------|
| mm <sup>2</sup>             | mm <sup>2</sup> | / | AWG   | Color                            | Color code |                |                      |                              |                        |                               |                |                              |                               |                                    |
| 0.5                         | (0.5)           | / | 20    | WH                               | D          | TA0.5-8WH-GB   | 100                  | 14                           | 8                      | 1.1                           | 0.15           | 2.9                          | 0.3                           | 11                                 |
| 0.5                         | (0.5)           | / | 20    | WH                               | D          | TA0.5-10WH-GB  | 100                  | 16                           | 10                     | 1.1                           | 0.15           | 2.9                          | 0.3                           | 13                                 |
| 0.75                        | (0.75)          | / | 20-18 | GY                               | D          | TA0.75-8GY-GB  | 100                  | 14                           | 8                      | 1.3                           | 0.15           | 3.3                          | 0.3                           | 11                                 |
| 0.75                        | (0.75)          | / | 20-18 | GY                               | D          | TA0.75-10GY-GB | 100                  | 16                           | 10                     | 1.3                           | 0.15           | 3.3                          | 0.3                           | 13                                 |
| 1                           | /               | / | 18    | RD                               | D          | TA1-8RD-GB     | 100                  | 14                           | 8                      | 1.5                           | 0.15           | 3.3                          | 0.3                           | 11                                 |
| 1                           | /               | / | 18    | RD                               | D          | TA1-10RD-GB    | 100                  | 16                           | 10                     | 1.5                           | 0.15           | 3.3                          | 0.3                           | 13                                 |
| 1.5                         | (1.25)          | / | 16    | BK                               | D          | TA1.5-8BK-GB   | 100                  | 14                           | 8                      | 1.8                           | 0.15           | 3.7                          | 0.3                           | 11                                 |
| 1.5                         | (1.25)          | / | 16    | BK                               | D          | TA1.5-10BK-GB  | 100                  | 16                           | 10                     | 1.8                           | 0.15           | 3.7                          | 0.3                           | 13                                 |

※ ( ) = JIS standard cross section area

Material: E-CU  
 Surface treatment: Tin plating  
 Insulating sleeve: PP  
 Heatproof temperature: 105°C

● Color:

|      |       |      |        |           |       |     |        |
|------|-------|------|--------|-----------|-------|-----|--------|
| GY   | BK    | BU   | YE     | TQ        | WH    | RD  | OG     |
| Gray | Black | Blue | Yellow | Turquoise | White | Red | Orange |

● Color code: D=DIN46228-4  
 W=Weidmüller standard

# Crimping Pliers for Ferrules

## TA-540

- Wide crimping range
- Ratchet devices allow stable high quality of operation
- Ergonomically designed handles



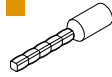
① Insert the conductive part of ferrules all the way into the square socket.



② Grip the handles till the ratchet releases automatically.



When crimping large cross sections like 16mm<sup>2</sup> (AWG5), adjust the knob to the position "16", it allows more efficient and comfortable crimping works.

| Part No. | Applicable wire range                                | Crimped figure   | Weight |
|----------|--|--|--------|
| TA-540   | 0.14mm <sup>2</sup> ~16mm <sup>2</sup><br>AWG26~AWG5 |  | 420g   |

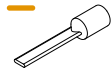
## TA-210

- Crimping plier for fine wires 0.08mm<sup>2</sup>-0.34mm<sup>2</sup>
- Ratchet devices allow stable high quality of operation



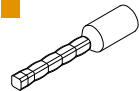





Place the wire on the right position.



| Part No. | Applicable wire range                                   | Crimped figure  | Weight |
|----------|---|---|--------|
| TA-210   | 0.08mm <sup>2</sup> ~0.34mm <sup>2</sup><br>AWG28~AWG22 |  | 340g   |

### Other Crimping Pliers (Back order items)




|          | Part No.  | Applicable wire range                                | Crimping shape  | Weight |
|----------|---|--|---|--------|
| CEB0160S |   | 0.14mm <sup>2</sup> ~6mm <sup>2</sup><br>AWG26~AWG10 |  | 370g   |
| CEB1025  |   | 10mm <sup>2</sup> ~25mm <sup>2</sup><br>AWG8~AWG4    |  | 515g   |

### Crimping Pliers Compatibility Table

| Electric wire cross section |   |     | Ferrules   | TA-540 | TA-210 | CEB0160S | CEB1025 |
|-----------------------------|---|-----|--|--------|--------|----------|---------|
| mm <sup>2</sup>             | / | AWG | Ferrules with insulating sleeves<br>GB type Ferrules with insulating sleeve<br>TWIN Ferrules |        |        |          |         |
| 0.08<br>(0.08)              | / | 28  | TA0.14-8GY TA0.34-※TQ<br>TA0.25-※※   | —      | ○      | —        | —       |
| 0.14<br>(0.12)              | / | 26  | TA0.14-8GY TA0.34-※TQ<br>TA0.25-※※   | ○      | ○      | ○        | —       |
| 0.25<br>(0.2)               | / | 24  | TA0.14-8GY TA0.34-※TQ<br>TA0.25-※※   | ○      | ○      | ○        | —       |
| 0.34<br>(0.3)               | / | 22  | TA0.14-8GY TA0.34-※TQ<br>TA0.25-※※   | ○      | ○      | ○        | —       |
| 0.5<br>(0.5)                | / | 20  | TA0.5-※※<br>TA0.5-※WH-GB   | ○      | —      | ○        | —       |
| 0.75<br>(0.75)              | / | 18  | TA0.75-※※<br>TA0.75-※GY-GB   | ○      | —      | ○        | —       |
| 1                           | / | 18  | TA1-※※<br>TA1-※RD-GB   | ○      | —      | ○        | —       |
| 1.5<br>(1.25)               | / | 16  | TA1.5-※※<br>TA1.5-※BK-GB   | ○      | —      | ○        | —       |
| 2.5<br>(2)                  | / | 14  | TA2.5-※BU  | ○      | —      | ○        | —       |
| 4<br>(3.5)                  | / | 12  | TA4-※GY  | ○      | —      | ○        | —       |
| 6<br>(5.5)                  | / | 10  | TA6-12※  | ○      | —      | ○        | —       |
| 10(8)                       | / | 8   | TA10-12RD  | ○      | —      | —        | ○       |
| 16(14)                      | / | 6   | TA16-12BU  | ○      | —      | —        | ○       |
| 2×0.5<br>(2×0.5)            | / |     | TAW0.5-※WH   | ○      | —      | ○        | —       |
| 2×0.75<br>(2×0.75)          | / |     | TAW0.75-※GY  | ○      | —      | ○        | —       |
| 2×1                         | / |     | TAW1-※RD   | ○      | —      | ○        | —       |
| 2×1.5<br>(2×1.25)           | / |     | TAW1.5-※BK   | ○      | —      | ○        | —       |
| 2×2.5<br>(2×2)              | / |     | TAW2.5-※BU   | ○      | —      | ○        | —       |

※ ( ) =JIS standard cross section area

### ■Crimping Guide

|   |  |   |
|---|--|---|
|  |                    |  |
| ①Strip an electric wire (refer to the "Recommended stripping length" on p.19-p.20)  | ②Insert the stripped wire into a ferrule, crimp the conductive part with an applicable crimping plier. | ③Cut electric wire sticks out from the ferrule in 0-0.5mm.                            |

- ※Please be careful not wound electric wires when stripping them.
- ※Grip the handles of a crimping plier till the ratchet releases automatically.
- ※Pull the wire lightly to make sure that the wire do not slip out from the ferrule before connecting it to devices.

#### ◆Bad examples of crimping

- A. Wires folded inside of a ferrule
- B. Wires stick out from a ferrule is too long.
- C. Wires inserted into a ferrule only half way and crimped, so the wires are exposed.
- D. Stripping length is not enough so the wires are not inserted into a ferrule to the tip.
- E. Only the tip is crimped.
- F. Two wires crimped into a single ferrule.
- G. Electric wires have breaks or wounds.

