# **CU Vintols**

### **CU VINTOL 25 NL WH V75 1HM**

Contact

General Sales inquiries Phone: 0508 NEXANS sales.nz@nexans.com

Nexans ref.: BABP16A1001WVNA

Country ref.: 6139.1

Cu conductor, PVC insulated, PVC sheath. 0.6/1 kV. Made to AS/NZS 5000.1

### **DESCRIPTION**

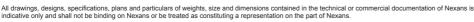
### **Application**

- Industrial and commercial applications (predominantly)
- Some domestic applications
- For use in various situations to supply the main power from the point of supply (either single or three phase application) to buildings, equipment, eg, switch board to main control cabinet, main between floors and buildings, cable cabinet to motor, etc. Commonly used in Power Authority work.



### **STANDARDS**

National AS/NZS 5000.1





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### **CHARACTERISTICS**

| Construction characteristics                   |                    |
|--|--------------------|
| Sheath colour                                  | White              |
| Conductor material                             | Copper             |
| Type of conductor                              | Circular, stranded |
| Insulation                                     | PVC                |
| Outer sheath                                   | PVC                |
| With Green/Yellow core                         | No                 |
| Insulation colour                              | White              |
| With smaller neutral conductor                 | No                 |
| Dimensional characteristics                    |                    |
| Conductor cross-section                        | 25 mm²             |
| Nominal overall diameter                       | 11.8 mm            |
| Gland Size (A2 or A2F)                         | 20                 |
| Approximate weight                             | 0.35 kg/m          |
| Number of cores                                | 1                  |
| Electrical characteristics                     |                    |
| Max. DC resistance of the conductor at 20°C    | 0.727 Ohm/km       |
| Permissible short circuit current conductor 1s | 2.8 kA             |
| Rated Voltage Uo/U (Um)                        | 0.6/ 1 (1.2) kV    |
| Mechanical characteristics                     |                    |
| Cable flexibility                              | Rigid              |
| Usage characteristics                          |                    |
| Max. conductor temperature in service          | 75 °C              |







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# **CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - SINGLE CONDUCTOR PVC**

Copper conductor - Circular stranded - Insulation PVC Aluminum conductor - Circular stranded except 240 mm<sup>2</sup> Compact circular stranded - Insulation PVC Max. Conductor Temperature 75C

| Conductor cross-section                            | 0   | 8                        |                 | <b>F</b> | <b>15</b> 00/           | \$ <b>9</b> \$ |     |  |  |
|--|-----|--------------------------|-----------------|----------|-------------------------|----------------|-----|--|--|
| [mm²]  | Cu  | Cu                       | Cu              | Cu       | Cu                      | Cu             | Cu  |  |  |
| 4  | 44  | 35                       | 36              | 56       | 52                      | 45             | 18  |  |  |
| 16   | 56  | 46                       | 47              | 71       | 109                     | 98             | 41  |  |  |
| 25   | 76  | 62                       | 62              | 94       | 142                     | 128            | 55  |  |  |
| 35   | 101 | 82                       | 80              | 134      | 171                     | 153            | 67  |  |  |
| 70   | 136 | 111                      | 107             | 174      | 251                     | -              | 227 |  |  |
| 95   | -   | -                        | -               | -        | -                       | -              | -   |  |  |
| 120  | -   | -                        | -               | -        | -                       | -              | -   |  |  |
| 185  | -   | -                        | -               | -        | -                       | -              | -   |  |  |
| 240  | -   | -                        | -               | -        | -                       | -              | -   |  |  |
| Air Spaced from Surface,<br>Unenclosed             |     | Air touching, unenclosed |                 |          | Air enclosed            |                |     |  |  |
| Buried direct                                      | Z   | Buried in                | single-way duct | !        | Buried in multi-way duc |                |     |  |  |
| Cable surrounded by thermal insulation, unenclosed | al  |                          |                 |          |                         |                |     |  |  |

#### Note

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The values are for typical New Zealand installation conditions of:

• Ambient Air Temperature: 30°C

• Soil Temperature: 15°C

· Soil Thermal Resistivity: 1.2 K.m/W

• Depth of Burial:0.5 m



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# **CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - SINGLE CONDUCTOR PVC**

Single Conductor PVC (three phase) PVC insulation Unarmoured Sheathed or unsheathed For cables up to and including 0.6/1 kV @ 50 Hz AC.

| Conductor cross-section  | 8   | 8           | 0           |     |          |      |    |  |
|--------------------------|-----|-------------|-------------|-----|----------|------|----|--|
| [mm²]                    | Cu  | Cu          | Cu          | Cu  | Cu       | Cu   | Cu |  |
| 4                        | 38  | 35          | 32          | 40  | 47       | 40   | 18 |  |
| 16                       | 88  | 82          | 71          | 114 | 99       | 86   | 41 |  |
| 25                       | 117 | 111         | 92          | 147 | 129      | 110  | 55 |  |
| 35                       | 145 | 136         | 114         | 176 | 154      | 134  | 67 |  |
| 70                       | 225 | 210         | 173         | 256 | 226      | 198  | -  |  |
| 95                       | -   | -           | -           | -   | -        | -    | -  |  |
| 120                      | -   | -           | -           | -   | -        | -    | -  |  |
| 185                      | -   | -           | -           | -   | -        | -    | -  |  |
| 240                      | -   | -           | -           | -   | -        | -    | -  |  |
| Air Spaced from Surface, |     | Air toughin | a unanalasa | , , | Air anal | 0004 |    |  |



Unenclosed



Air touching, unenclosed



Air enclosed



**Buried direct** 

Cable surrounded by thermal insulation, unenclosed



Buried in single-way duct



Buried in multi-way duct

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