

# CU Vintols

CU VINTOL 16 NL RD V75 1HM

## Contact

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**Nexans Ref.:** BABP15A1001JBNA

**Country Ref.:** 4354.1

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

## CHARACTERISTICS

### Construction characteristics

|                                |                    |
|--------------------------------|--------------------|
| Sheath colour                  | Red                |
| Conductor material             | Copper             |
| Type of conductor              | Circular, stranded |
| Insulation                     | PVC                |
| Outer sheath                   | PVC                |
| Insulation colour              | White              |
| With Green/Yellow core         | No                 |
| With smaller neutral conductor | No                 |

### Dimensional characteristics

|                                          |                    |
|------------------------------------------|--------------------|
| Conductor cross-section                  | 16 mm <sup>2</sup> |
| Nominal overall diameter                 | 10.0 mm            |
| Gland Size (A2 or A2F)                   | 20                 |
| Approximate weight                       | 0.23 kg/m          |
| Neutral conductor section (when smaller) | - mm <sup>2</sup>  |
| Number of cores                          | 1                  |

### Electrical characteristics

|                                                   |                 |
|---------------------------------------------------|-----------------|
| Max. DC resistance of the conductor at 20°C       | 1.15 Ohm/km     |
| Permissible short circuit current conductor 1s    | 1.8 kA          |
| Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> ) | 0.6/ 1 (1.2) kV |

### Mechanical characteristics

|                   |       |
|-------------------|-------|
| Cable flexibility | Rigid |
|-------------------|-------|

### Usage characteristics

|                                       |       |
|---------------------------------------|-------|
| Max. conductor temperature in service | 75 °C |
| Packaging                             | -     |

### 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<br>[mm²]                                                    |  |    |  |                          |  |                                                                                     |  |    |  |               |  |                                                                                   |  |    |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|
|                                                                                     | Cu                                                                                | Al | Cu                                                                                | Al                       | Cu                                                                                | Al                                                                                  | Cu                                                                                | Al | Cu                                                                                 | Al            | Cu                                                                                  | Al                                                                                | Cu                                                                                  | Al |
| 16                                                                                  | 56                                                                                | -  | 46                                                                                | -                        | 47                                                                                | -                                                                                   | 71                                                                                | -  | 109                                                                                | -             | 98                                                                                  | -                                                                                 | 41                                                                                  |    |
|    | Air Spaced from Surface, Unenclosed                                               |    |  | Air touching, unenclosed |                                                                                   |  | Air enclosed                                                                      |    |   | Buried direct |                                                                                     |  | Buried in single-way duct                                                           |    |
|  | Buried in multi-way duct                                                          |    |                                                                                   |                          |                                                                                   |                                                                                     |                                                                                   |    |                                                                                    |               |                                                                                     |                                                                                   |                                                                                     |    |
|    | Cable surrounded by thermal insulation, unenclosed                                |    |                                                                                   |                          |                                                                                   |                                                                                     |                                                                                   |    |                                                                                    |               |                                                                                     |                                                                                   |                                                                                     |    |

#### 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

### 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<br>[mm <sup>2</sup> ]                                         |  |    |  |                          |  |                                                                                       |  |    |  |               |  |                                                                                     |  |    |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|
|                                                                                       | Cu                                                                                  | Al | Cu                                                                                  | Al                       | Cu                                                                                  | Al                                                                                    | Cu                                                                                  | Al | Cu                                                                                   | Al            | Cu                                                                                    | Al                                                                                  | Cu                                                                                    | Al |
| 16                                                                                    | 88                                                                                  | -  | 82                                                                                  | -                        | 71                                                                                  | -                                                                                     | 114                                                                                 | -  | 99                                                                                   | -             | 86                                                                                    | -                                                                                   | 41                                                                                    |    |
|    | Air Spaced from Surface, Unenclosed                                                 |    |  | Air touching, unenclosed |                                                                                     |  | Air enclosed                                                                        |    |   | Buried direct |                                                                                       |  | Buried in single-way duct                                                             |    |
|  | Buried in multi-way duct                                                            |    |                                                                                     |                          |                                                                                     |                                                                                       |                                                                                     |    |                                                                                      |               |                                                                                       |                                                                                     |                                                                                       |    |
|    | Cable surrounded by thermal insulation, unenclosed                                  |    |                                                                                     |                          |                                                                                     |                                                                                       |                                                                                     |    |                                                                                      |               |                                                                                       |                                                                                     |                                                                                       |    |

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