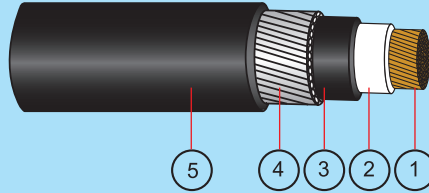
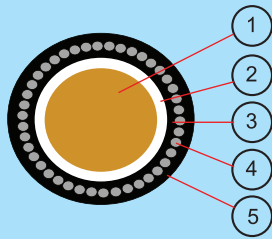


# Single Core CU/PVC/PVC/AWA/PVC

## PVC Insulated, PVC bedded, AWA armoured, PVC sheathed Cable 0.6/1kV



### Component

1. Copper Conductor
2. PVC Insulation
3. PVC Bedding
4. Aluminium Wire Armoured
5. PVC Sheath

### Standards Applied

Design Guide: BS6346, MS274  
 Conductor: IEC60228, BS6360, BS EN 60228  
 Flame Retardancy: IEC60332-1-2, IEC60332-3-24\*\*, IEC60332-3-22\*\*

### Electrical Characteristics

Operating voltage, U<sub>0</sub>/U: 600/1000V  
 Max. operating temperature: 70°C  
 Final short circuit temperature: 160°C  
 Test voltage: 3.5kV for 5 minutes

### Installation Guide

Min. bending radius (mm) : 10 x Cable Overall Diameter  
 Max. pulling tension (kgf) : 7 x No. of Core x Conductor Size

### Construction

|                            |  |
|----------------------------|--|
| <b>Conductor</b>           | Plain annealed copper wire                             |
| <b>Insulation</b>          | An extruded layer of polyvinyl chloride (PVC) compound |
| <b>Core Identification</b> | Refer to Appendix F for details                        |
| <b>Bedding</b>             | An extruded layer of polyvinyl chloride (PVC) compound |
| <b>Bedding Colour</b>      | Black  |
| <b>Armour</b>              | A single layer of aluminium wire armoured (AWA)        |
| <b>Outer Sheath</b>        | An extruded layer of polyvinyl chloride (PVC) compound |
| <b>Outer Sheath Colour</b> | Black  |

### Dimension & Electrical Data

| Product ID | No. of Core | Conductor Size  | Nom. Insulation Thickness | Nom. Dia. after Bedding | Nom. Armour Wire Size | Nom. Sheath Thickness | Nom. Overall Diameter | Approx. Cable Weight | Max. d.c. Resistance at 20°C |
|------------|-------------|-----------------|---------------------------|-------------------------|-----------------------|-----------------------|-----------------------|----------------------|------------------------------|
|            |             | mm <sup>2</sup> | mm                        | mm                      | mm                    | mm                    | mm                    | kg/km                | Ω/km                         |
|            | 1           | 50              | 1.4                       | 13.3                    | 1.25                  | 1.5                   | 19.1                  | 804                  | 0.387                        |
|            | 1           | 70              | 1.4                       | 15.1                    | 1.25                  | 1.6                   | 21.1                  | 1056                 | 0.268                        |
|            | 1           | 95              | 1.6                       | 17.4                    | 1.25                  | 1.6                   | 23.4                  | 1378                 | 0.193                        |
|            | 1           | 120             | 1.6                       | 19.4                    | 1.6                   | 1.7                   | 26.3                  | 1738                 | 0.153                        |
|            | 1           | 150             | 1.8                       | 21.4                    | 1.6                   | 1.7                   | 28.3                  | 2071                 | 0.124                        |
|            | 1           | 185             | 2.0                       | 23.6                    | 1.6                   | 1.8                   | 30.8                  | 2522                 | 0.0991                       |
|            | 1           | 240             | 2.2                       | 26.7                    | 1.6                   | 1.9                   | 34.1                  | 3189                 | 0.0754                       |
|            | 1           | 300             | 2.4                       | 29.5                    | 1.6                   | 1.9                   | 37.0                  | 3878                 | 0.0601                       |
|            | 1           | 400             | 2.6                       | 33.3                    | 2.0                   | 2.1                   | 42.0                  | 5002                 | 0.047                        |
|            | 1           | 500             | 2.8                       | 36.8                    | 2.0                   | 2.1                   | 45.5                  | 6112                 | 0.0366                       |
|            | 1           | 630             | 2.8                       | 40.8                    | 2.0                   | 2.2                   | 49.7                  | 7610                 | 0.0283                       |
|            | 1           | 800             | 2.8                       | 45.5                    | 2.5                   | 2.4                   | 55.8                  | 9699                 | 0.0221                       |
|            | 1           | 1000            | 3.0                       | 50.4                    | 2.5                   | 2.5                   | 60.9                  | 11954                | 0.0176                       |

\* Optional

\*\* Available upon request