



ENGLISH

## Datasheet

### **3 Core Black Mains Power Cable, Silicone Rubber Sheath, 450 V, 25m Length**

**Stock number: 744-0997**



## TECHNICAL SPECIFICATION

| S.No.      | Performance Items                                  |                 | Technical Data               |                   |
|------------|--|-----------------|------------------------------|-------------------|
| <b>1</b>   | <b>General</b>                                     | <b>Unit</b>     |                              |                   |
| a)         | Name of Manufacture/ Trade Mark                    |                 | RS Components                |                   |
| b)         | Cable Type/Code                                    |                 | YGG                          |                   |
| c)         | No. of Cores and Cross-Sectional Area of Conductor |                 | 3G0.75                       | 3G1.5             |
| d)         | Nominal Voltage U <sub>0</sub> /U                  | V               | 450/750                      |                   |
| g)         | Execute Standards(Non-identical adoption)          |                 |                              |                   |
| <b>2</b>   | <b>Construction Dimensions</b>                     |                 |                              |                   |
| <b>2.1</b> | <b>Conductor</b>                                   |                 |                              |                   |
| a)         | Material   |                 | annealed tinned copper wires |                   |
| b)         | In accordance with Standards                       |                 | class 5,as per IEC60228      |                   |
| c)         | Nom. Cross-Sectional Area                          | mm <sup>2</sup> | 0.75                         | 1.5               |
| d)         | No. of Wire/dia of Wire In Conductor               | (Nos./mm)       | 24/0.20                      | 30/0.25           |
| e)         | Nominal Diameter                                   | mm              | 1.13                         | 1.55              |
| <b>2.2</b> | <b>A Layer of Isolation Over Conductor</b>         |                 |                              |                   |
| a)         | Material   | mm              | Polyester tape               |                   |
| <b>2.3</b> | <b>Insulation</b>                                  |                 |                              |                   |
| a)         | Material   |                 | Silicone Rubber              |                   |
| b)         | Average Thickness                                  | mm              | 0.8                          | 0.8               |
| c)         | Dia. Over Core                                     | mm              | 2.33                         | 3.15              |
| d)         | Core Identification                                |                 | Blue, Brown & G/Y            | Blue, Brown & G/Y |
| <b>2.4</b> | <b>Outer Sheath</b>                                |                 |                              |                   |
| a)         | Material   |                 | Silicone Rubber              |                   |
| b)         | Nominal Thickness                                  | mm              | 1                            | 1.2               |
| c)         | Min.Thinnest Thickness                             | mm              | 0.75                         | 0.92              |
| d)         | Sheath Diameter                                    | mm              | 7.0                          | 9.2               |
| e)         | (+_)Tolerance                                      | mm              | ±1.0                         | ±1.0              |
| <b>3</b>   | <b>Electricity Data</b>                            |                 |                              |                   |
| <b>3.1</b> | <b>Max.DC Resistance at 20°C.</b>                  | Ω/km            | 26.70                        | 13.70             |
| <b>3.3</b> | <b>Voltage Test</b>                                |                 | 2200V/5min, not punctured    |                   |
| <b>3.4</b> | <b>Rated current</b>                               | A               | 10                           | 20                |
| <b>4</b>   | <b>Engineering Data</b>                            |                 |                              |                   |
| <b>4.1</b> | <b>Cable Operation Temperature Range</b>           |                 |                              |                   |
| a)         | Nominal Operation                                  | Deg.C           | -40~+180                     | -40~+180          |