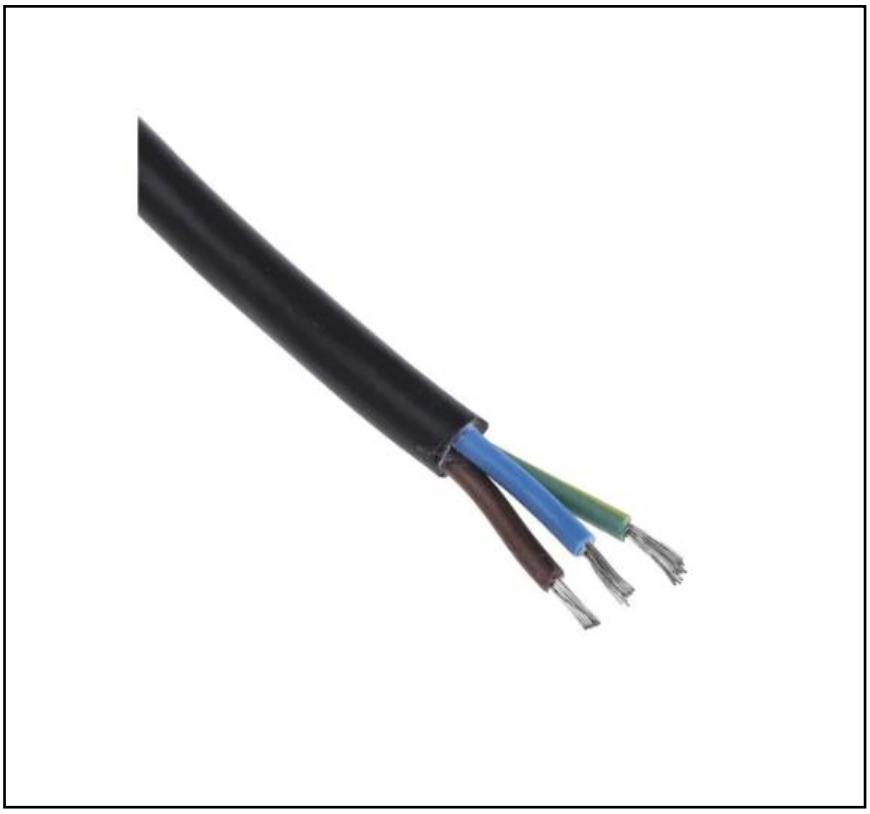
## FEATURES

- Wide operating temperature range of -40 to +180°C
- Excellent flexibility
- Silicone insulated cable can withstand higher flexing cycles
- Good oil and solvent resistance
- Resistant to various harsh chemical substances
- High performance in adverse environments such as humidity and harsh UV rays

# RS PRO 3 Core 0.75 mm² Mains Power Cable, Black Silicone Rubber Sheath 25m, 6.5 A 450 V, High Temperature

RS Stock No.: 744-0997



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

From RS Pro a high quality 3 core flexible mains power cable with a silicone rubber sheath designed for use in high-temperature applications.

## General Specifications

| | |
|---|---|
| **Type** | High Temperature |
| **Sheath Material** | Silicone Rubber |
| **Sheath Colour** | Black |
| **Applications** | The cables are used as electrical connect line or wiring in power installation, household appliances, electrically operated tools, construction lighting and machines inner rated voltage A.C 450/750V or below |

## Electrical Specifications

| | |
|---|---|
| **Current Rating** | 6.5A |
| **Voltage Rating** | 450V |
| **Insulation Material** | Silicone Rubber |
| **Conductor Material** | Copper |
| **Conductor Resistance** | 26.7 Ω/km |
| **Voltage Test** | 2200V/5min, not punctured |

## Mechanical Specifications

| | |
|---|---|
| **Length** | 25m |
| **Cross Sectional Area** | 0.75 mm² |
| **American Wire Gauge** | 18AWG |
| **Outer Diameter** | 7mm |
| **Number of Cores** | 3 |
| **Number of Strands** | 24 |
| **Size of Strands** | 0.2mm |
| **Core Strands** | 24/0.2mm |
| **Conductor Strand Type** | Stranded |

## Operation Environment Specifications

| | |
|---|---|
| **Operating Temperature Range** | -40°C to +180°C |
| **Minimum Operating Temperature** | -40°C |
| **Maximum Operating Temperature** | +180°C |

## Approvals

| | |
|---|---|
| **Compliance/Certifications** | 2011/65/EU and 2015/863 |
| **Standards Met** | IEC EN 60228 Class 5, RoHS Compliant |

| S.No. | Performance Items | | Technical Data | |
|---|---|---|---|---|
| 1 | General | Unit | | |
| 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 Uo/U | V | 450/750 | |
| g) | Execute Standards(Non-identical adoption) | | | |
| 2 | Construction Dimensions | | | |
| 2.1 | Conductor | | | |
| a) | Materiel | | annealed tinned copper wires | |
| b) | In accordance with Standards | | class 5,as per IEC60228 | |
| c) | Nom. Cross-Sectional Area | $mm^2$ | 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 |
| 2.2 | A Layer of Isolation Over Conductor | | | |
| a) | Material | mm | Polyester tape | |
| 2.3 | Insulation | | | |
| a) | Materiel | | Silicone Rubber | |
| b) | Average Thickness | mm | 0.6 | 0.8 |
| c) | Dia. Over Core | mm | 2.33 | 3.15 |
| d) | Core Identification | | Blue, Brown & G/Y | Blue, Brown & G/Y |
| 2.4 | Outer Sheath | | | |
| a) | Materiel | | 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 |
| 3 | Electricity Data | | | |
| 3.1 | Max.DC Resistance at 20℃. | Ω/km | 26.70 | 13.70 |
| 3.3 | Voltage Test | | 2200V/5min, not punctured | |
| 3.4 | Rated current | A | 10 | 20 |
| 4 | Engineering Data | | | |
| 4.1 | Cable Operation Temperature Range | | | |
| a) | Nominal Operation | Deg.C | -40~+180 | -40~+180 |