

## 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 1.5 mm<sup>2</sup> Mains Power Cable, Black Silicone Rubber Sheath 25m, 20 A 450 V, YGG

RS Stock No.: 744-0985



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

<b>Type</b>	YGG
<b>Sheath Material</b>	Silicone Rubber
<b>Sheath Colour</b>	Black
<b>Applications</b>	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

<b>Current Rating</b>	20A
<b>Voltage Rating</b>	450V
<b>Insulation Material</b>	Silicone Rubber
<b>Conductor Material</b>	Copper
<b>Conductor Resistance</b>	13.7 $\Omega$ /km
<b>Voltage Test</b>	2200V/5min, not punctured

## Mechanical Specifications

<b>Length</b>	25m
<b>Cross Sectional Area</b>	1.5 mm <sup>2</sup>
<b>American Wire Gauge</b>	15AWG
<b>Outer Diameter</b>	9.2mm
<b>Number of Cores</b>	3
<b>Number of Strands</b>	30
<b>Size of Strands</b>	0.25mm
<b>Core Strands</b>	30/0.25 mm
<b>Conductor Strand Type</b>	Stranded

## Operation Environment Specifications

<b>Operating Temperature Range</b>	-40°C to +180°C
<b>Minimum Operating Temperature</b>	-40°C
<b>Maximum Operating Temperature</b>	+180°C

## Approvals

<b>Compliance/Certifications</b>	2011/65/EU and 2015/863
<b>Standards Met</b>	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)	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
2.2	A Layer of Isolation Over Conductor			
a)	Material	mm	Polyester tape	
2.3	Insulation			
a)	Material		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)	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
3	Electricity Data			
3.1	Max.DC Resistance at 20°C.	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