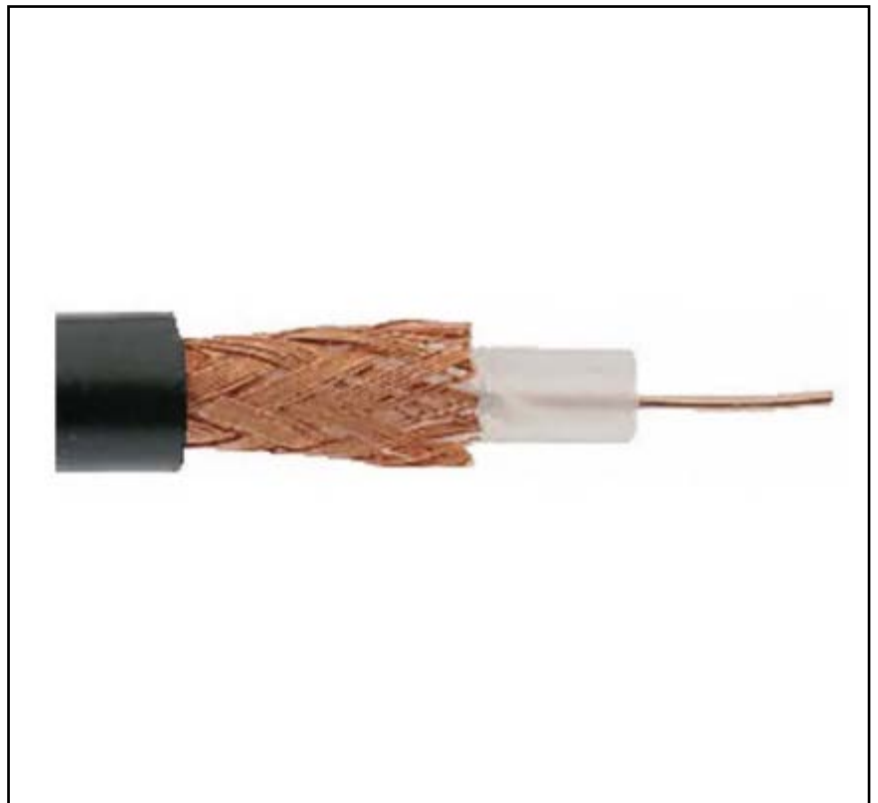


## FEATURES

- **Unterminated RG62 coaxial signal cable**
- **Copper clad steel inner conductor of 0.64 mm diameter**
- **Braided copper shielding**
- **Impedance of 93  $\Omega$**
- **Capacitance of 45pF/m**
- **Dielectric material of PE**
- **Maximum frequency of 1GHz**
- **Black heat-resistant PVC outer sheath**
- **Outer diameter of 6.15mm**
- **Operational temperature from -30°C to +70°C**
- **Flame-retardant, low-smoke, and halogen-free**
- **RoHS compliant**

# RS PRO Black Unterminated to Unterminated RG62A/U Coaxial Cable, 93 $\Omega$ 6.15mm OD 100m

RS Stock No.: 521-8032



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

Coaxial cables are used to carry high-frequency electrical signals with low signal losses. The RS PRO RG62A/U coaxial cable is a practical choice for use in computer, video, radio-frequency signal and broadcast applications, as its electrical characteristics prevent drops in the signal's voltage.

This 100-m cable comprises a solid 0.64-mm-diameter copper-clad steel inner conductor with a semi-air-spaced polyethylene (PE) dielectric and braided copper shielding. This is encased in an outer sheath made of black polyvinyl chloride (PVC) that provides effective protection in a wide range of temperatures.

### General Specifications

<b>Coaxial Type</b>	RG62A/U
<b>Connector A</b>	Unterminated
<b>Connector B</b>	Unterminated
<b>Terminated/Unterminated</b>	Unterminated
<b>Shielding</b>	Braid Tinned Copper
<b>Sheath Colour</b>	Black
<b>Fire Behaviour</b>	Flame Retardant
<b>Applications</b>	Industrial, Instrument, Medical Equipment

### Electrical Specifications

<b>Voltage Rating</b>	3000DC / 1500V RMS
<b>Capacitance</b>	45pF/m
<b>Characteristic Impedance</b>	93Ω
<b>Velocity Propagation (%)</b>	84
<b>Maximum Operating Frequency (MHz)</b>	1000
<b>Maximum Operating Voltage (RMS)</b>	1500

**Attenuation (@ 20°C)**

Frequency (MHz/GHz)	Attenuation (db/10m)
100	1.30
200	1.12
1000	2.58

**Mechanical Specifications**

Length	100m
Outer Diameter	6.15mm
Conductor Strand Type	Solid

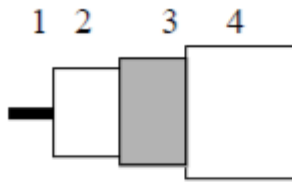
**Operation Environment Specifications**

Operating Temperature Range	-30°C to +70°C
Minimum Operating Temperature	-30°C
Maximum Operating Temperature	+70°C

**Approvals**

Standards Met	ANSI/ESC and BS EN standards compliant RoHS Compliance
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## Construction & Dimensions



1	Inner conductor	Copper clad steel
2	Dielectric	Semi airspaced PE
3	Braid	Bare copper
4	Sheath	LSNH according the European Standard HD 624.

1. **Conductor** Innenleiter - Conduttore Interno - Conducteur  
Diameter: 0.64 mm ± 0.02 mm
2. **Dielectric** Dielektrikum – Dielettrico - Diélectrique  
Diameter: 3.7 mm ± 0.15 mm
3. **Outer Conductor** Aussenleiter - Conduttore Esterno - Conducteur extérieur  
Diameter screen: 4.3 mm ± 0.2 mm  
Coverage braid: 90 % ± 4 %
4. **Jacket** Aussenmantel – Guaina - Gaine  
Diameter: 6.15 mm ± 0.2 mm

## Requirements & Test Methods

### Electrical characteristics

Mean characteristic impedance:	93 ± 2 Ω
Wellenwiderstand - Impedenza Caratteristica Principale - Impédance nominale	
Nominal capacitance conductor to shield:	45 pF/m
Kapazität - Capacità Nominale Conduttore/Schermo - Capacité nominale entre conducteur et blindage	
Nominal velocity of propagation:	84%
Ausbreitungsgeschwindigkeit - Velocità Nominale di Propagazione - Vitesse de propagation nominale	
Nominal Attenuation: Wellendaempfung - Attenuazione Nominale - Affaiblissement	

MHz	dB/100m
10	2.8
200	12.5
400	17.5
1000	29

Maximum frequency:	1 GHz
Voltage rating :	
DC	3 kVdc
RMS	1.5 kVrms

### Mechanical and physical characteristics

Temperature range - storage/operation	-30°C to +70°C
Temperature range - installation	-5 °C to + 50°C
Nominal cable weight	50 kg/km
Gewicht - Peso Nominale del Cavo – Poids	

## Ordering Information

Jacket colour	length	RS P/N
Black	100m	5218010