

## FEATURES

- **Underminated RG59 coaxial signal cable with bonded twin 0.5mm power cables**
- **Inner conductor of copper 1 x 0.71 mm diameter**
- **Aluminium wire braid shielding**
- **Outer diameter of 6mm**
- **Impedance of 75  $\Omega$**
- **Capacitance of 54pF/m**
- **Power cable pair, copper, 16 x 0.005 mm, total diameter of 0.92 mm**
- **Power cable pair, outer diameter of 5mm**
- **Insulation material of PVC**
- **Black sheath of PVC material for heat resistance**
- **Maximum temperature of +80°C**

## RS PRO Black Underminated to Underminated RG59 Coaxial Cable, 75 $\Omega$ 6mm OD 200m

RS Stock No.: 742-2820



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

Need to run signal and power cabling to a closed-circuit TV camera? This RG59 75  $\Omega$  coaxial signal cable from trusted brand RS PRO provides a simple solution to signal distribution problems. Its bonded twin 0.5-mm power cables offer superior performance and its connectors are unterminated at both ends for versatility.

This product has an efficient inner conductor of solid copper and an aluminium wire braid shielding that resists corrosion. The coaxial cable offers excellent signal performance thanks to its multi-construction including two stranded-copper power conductors. These are colour coded in red and black, each with a diameter of 0.92 mm.

### General Specifications

<b>Coaxial Type</b>	RG59
<b>Connector A</b>	Unterminated
<b>Connector B</b>	Unterminated
<b>Terminated/Unterminated</b>	Unterminated
<b>Shielding</b>	Aluminium wire braid
<b>Sheath Colour</b>	Black
<b>Applications</b>	Industrial, Instrument, Medical Equipment

### Electrical Specifications

<b>Capacitance</b>	54pF/m
<b>Characteristic Impedance</b>	75Ohm
<b>Velocity Propagation (%)</b>	83

**Attenuation (@ 20°C)**

Frequency (MHz)	Attenuation (db/100m)
10	3.00
50	5.60
100	7.90
230	12.30
300	14.20
400	16.00
860	24.70
1000	26.10

**Mechanical Specifications**

Length	200m
Outer Diameter	6mm + 5mm
Conductor Strand Type	Stranded
Coil or Drum	Drum

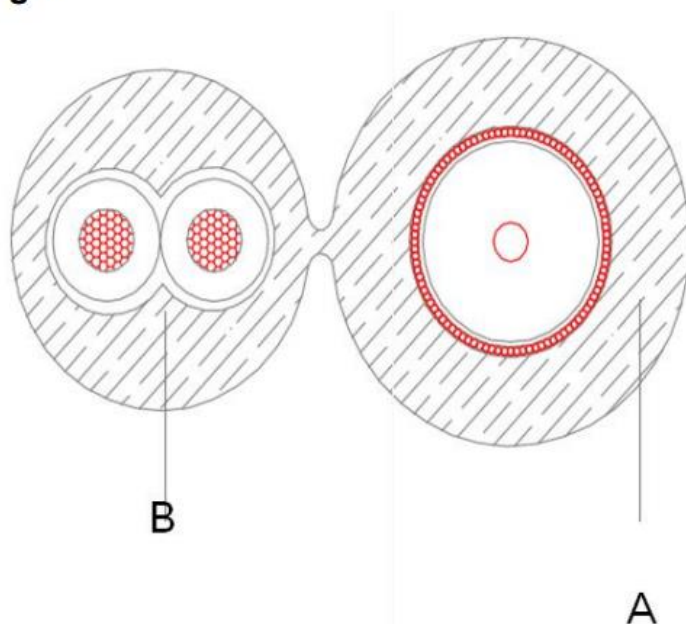
**Operation Environment Specifications**

Maximum Operating Temperature	+80°C
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**Approvals**

Standards Met	RoHS Compliant
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## Design



## Specifications

Max.Conductor DC Resistance at 20 °C ( $\Omega$ /Km)	
A	<47
B	<37
Min.Insulation DC Resistance at 20 °C ( $M\Omega \cdot M$ )	>500
Rated Temperature(°C)	80
Rated Voltage(V)	30
Capacitance(pF/m)	54±3
Velocity ratio (%)	83%
Impedance( $\Omega$ )	75+/-3
Attenuation at 20 °C ( -dB/100m) (+/-5%)	
10 MHz	3.00
50 MHz	5.60
100 MHz	7.90
230 MHz	12.30
300 MHz	14.20
400 MHz	16.00
860 MHz	24.70
1000 MHz	26.10

## Product Details

For Signal Distribution and Security Markets

### Reference Standard

Customer's sample spec.and the general standard

Multi-construction

A+B			
<b>Conductor</b>	<b>Cable Construction</b>	<b>Construction</b>	
		<b>A</b>	<b>B</b>
		<b>Bare Copper</b>	<b>Bare Copper</b>
Construction		0.71±0.015	0.20±0.005×16
Standard Dia. (mm)		0.71	0.92
<b>Insulation Layer</b>		<b>Foam PE</b>	<b>PVC</b>
Thickness(mm)		1.27	0.43
Insulation Dia. (mm)		3.25±0.1	1.8±0.1 x 2
Color		Natural	Red ,Black
<b>Al-Pet-Al Shielded</b>		<b>≥115%</b>	-----
<b>Filler</b>		-----	CHALK
<b>Braiding</b>		<b>Aluminium Wire</b>	-----
Construction		Al0.12±0.008×16×3	-----
Braid coverage(%)		48%	-----
<b>Jacket</b>		<b>PVC</b>	<b>PVC</b>
Thickness(mm)		0.8	0.7
Dia.(±0.15mm)		6.00	5.00
Outer Jacket Color		Black	
<b>Marking</b>			
According to customer			
<b>PACKAGING</b>			
#3602 - 100M/Wooden Drum			
#3603 - 200M/Wooden Drum			