

Technical Document
 RG213 /U 50ohm Coaxial Cable
 PVC Black



Part Number: 480005E-BLK

Description: RG213 /U 50ohm Coaxial Cable PVC
 Black



Product Construction

Conductor Material	:	Bare Copper
Conductor Stranding	:	Stranded, 7/0.75mm
Dielectric Material	:	Solid Polyethylene (SPE)
Dielectric Diameter	:	7.25mm ± 0.18
Screening 1	:	Bare Copper Wire Braid
Screening 1 Coverage	:	> 97% ± 3
Sheath Material	:	Polyvinyl Chloride (PVC)
Sheath Colour	:	Black



Mechanical Characteristics

Overall Diameter	:	10.3mm ± 0.15mm
Temperature Range	Fixed	-15°C to +70°C
	Flexing	-5°C to +70°C
Bend Radius	:	10 x Overall Diameter
Weight	:	165 kg/km

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 6.0 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 4.4 Ω/km @ 20°C
Impedance	:	50 Ω ± 3
Nominal Capacitance	:	100 pF/m ± 3
Velocity of Propagation	:	66%
Shielding Effectiveness 100-900MHz	:	> 57 dB

Attenuation @20°C

Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
5	≤ 1.2 dB	500	≤ 15.3 dB	1750	≤ 33.7 dB
10	≤ 1.8 dB	600	≤ 16.9 dB	2150	≤ 38.9 dB
50	≤ 4.3 dB	800	≤ 20.4 dB	2250	≤ 39.7 dB
100	≤ 6.4 dB	1000	≤ 23.2 dB	2500	≤ 42.7 dB
200	≤ 9.5 dB	1350	≤ 28.4 dB	2750	≤ 45.7 dB
400	≤ 13.7 dB	1500	≤ 30.4 dB	3000	≤ 48.9 dB

Return Loss @ 20°C

Frequency (MHz)	Return Loss
30MHz - 300MHz	≥ 31 dB
300MHz - 600MHz	≥ 28 dB
60MHz - 1000MHz	≥ 27 dB
1000MHz - 2000MHz	≥ 24 dB
2000MHz - 3000MHz	≥ 22 dB

Certifications & Standards

Flame Retardancy	:	BS EN 60332-1-2
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
UKCA CPR Classification	:	Eca to BS EN 50575:2014+A1:2016

Publication Date: 26/07/2024

Revision Number: 2.0

Written by: GB

Authorised by: GB

Webro Cables & Connectors Ltd

Vision House, Meadow Brooks Business Park, Meadow Lane, Long Eaton, Nottingham NG10 2GD, UK
 Tel: +44 (0)115 9724483 | Fax: +44 (0)115 9461230 | sales@webro.com | www.webro.com

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