

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 | : | 2.25mm ± 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 |

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