

RG6 CCS SDU Coaxial Cable PVC Black – CAI Approved



Part Number: 441008E-BLK

Description: RG6 CCS SDU Coaxial Cable PVC Black – CAI Approved

Product Construction

| | | |
|----------------------|---|--------------------------|
| Conductor Material | : | Copper Clad Steel |
| Conductor Stranding | : | Solid, 1/1.00mm |
| Dielectric Material | : | Foam Polyethylene (FPE) |
| Dielectric Diameter | : | 4.7mm ± 0.20 |
| Screening 1 | : | Overall Aluminium Foil |
| Screening 1 Coverage | : | > 100% |
| Screening 2 | : | Aluminium Wire Braid |
| Screening 2 Coverage | : | > 45% ± 3 |
| Sheath Material | : | Polyvinyl Chloride (PVC) |
| Sheath Colour | : | Black |

Mechanical Characteristics

| | | | |
|-------------------|---|-----------------------|-----------------------|
| Overall Diameter | : | 6.7mm ± 0.20mm | |
| Temperature Range | : | Fixed -15°C to +70°C | Flexing -5°C to +70°C |
| Bend Radius | : | 10 x Overall Diameter | |
| Weight | : | 44kg/km | |

Electrical Characteristics

| | | |
|-------------------------------|---|--------------------|
| Inner Conductor DC Resistance | : | ≤ 105 Ω/km @ 20°C |
| Outer Conductor DC Resistance | : | ≤ 63.5 Ω/km @ 20°C |
| Characteristic Impedance | : | 75 Ω ± 3Ω |
| Nominal Capacitance | : | 53 pF/m |
| Velocity of Propagation | : | 83% |

Attenuation @20°C

| Frequency (MHz) | Attenuation (per 100m) | Frequency (MHz) | Attenuation (per 100m) |
|-----------------|------------------------|-----------------|------------------------|
| 5 | ≤ 2.0 dB | 860 | ≤ 20.2 dB |
| 50 | ≤ 4.9 dB | 1000 | ≤ 21.8 dB |
| 100 | ≤ 6.9 dB | 1750 | ≤ 28.8 dB |
| 200 | ≤ 9.7 dB | 2150 | ≤ 32.0 dB |
| 400 | ≤ 14.8 dB | | |

Return Loss @ 20°C

| Frequency (MHz) | Return Loss |
|------------------|-------------|
| 5MHz – 30MHz | ≥ 23 dB |
| 30MHz – 470MHz | ≥ 23 dB |
| 470MHz – 862MHz | ≥ 20 dB |
| 862MHz – 2150MHz | ≥ 18 dB |



Certifications & Standards

| | | |
|-------------------------|---|---------------------------------|
| CAI Certification | : | CAI 0110F |
| 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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