Technical Document BSkyB Twin 63-008A 75ohm Coax PVC White CAI Approved



CONSTRUCTION

BS EN 50575

Class Eca

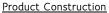
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PRODUCTS REGULATION

Part Number: 570020E-WHT

Description: BSkyB Twin 63-008A 75ohm Coax

PVC White, CAI Approved



Conductor Material : Plain Annealed Copper Conductor Stranding : Solid, 1/0.65mm Dielectric Material : Foam Polyethylene (FPE) Dielectric Diameter : 2.90mm ± 0.10 Screening 1 : Overall Aluminium Foil

Screening 1 Coverage : > 100%

Screening 2 : Tinned Copper Wire Braid

Screening 2 Coverage : $> 85\% \pm 3$

Sheath Material : Polyvinyl Chloride (PVC)

Sheath Colour : White

Mechanical Characteristics

Overall Diameter : $6.7 \text{mm} \times 9.6 \text{mm} \pm 0.2 \text{mm}$

Temperature Range Fixed : -15° C to $+70^{\circ}$ C Flexing : -5° C to $+70^{\circ}$ C Bend Radius : 10×0 Overall Diameter

Weight : 65 kg/km

Electrical Characteristics

Inner Conductor DC Resistance : $\leq 55 \Omega/\text{km} @ 20^{\circ}\text{C}$ Outer Conductor DC Resistance : $\leq 16 \Omega/\text{km} @ 20^{\circ}\text{C}$

Characteristic Impedance : $75~\Omega \pm 3$ Nominal Capacitance : $53~\text{pF/m} \pm 3$ Velocity of Propagation : 83%

Attenuation @20°C

Frequency (MHz)	Attenuation (per 100m)	Frequency (MHz)	Attenuation (per 100m)
5	≤ 2.7 dB	860	≤ 30.0 dB
50	≤ 7.5 dB	1000	≤ 32.5 dB
100	≤ 10.0 dB	1750	≤ 42.2 dB
200	≤ 13.8 dB	2150	≤ 47.0 dB
460	≤ 21.4 dB		

Return Loss @ 20°C

Frequency (MHz)	Return Loss
5MHz - 30MHz	≥ 23 dB
30MHz - 470MHz	≥ 23 dB
470MHz - 862MHz	≥ 20 dB
862MHz - 2150MHz	≥ 15 dB

Certifications & Standards

CAI Certification : CAI 0011D 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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Authorised by: