

Part Number: 442010E-BLK
 Description: CT100® Twin 75ohm Coax PVC Black



Product Construction

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Solid, 1/1.00mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	4.65mm ± 0.05
Screening 1	:	Overall Aluminium Foil
Screening 1 Coverage	:	> 100%
Screening 2	:	Copper Clad Aluminium Wire Braid
Screening 2 Coverage	:	> 45% ± 3
Sheath Material	:	Polyvinyl Chloride (PVC)
Sheath Colour	:	Black



Mechanical Characteristics

Overall Diameter	:	6.70mm x 13.5mm ± 0.15mm
Temperature Range	Fixed	-15°C to +70°C
	Flexing	-5°C to +70°C
Bend Radius	:	10 x Overall Diameter
Weight	:	87 kg/km

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 26 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 63.5 Ω /km @ 20°C
Characteristic Impedance	:	75 Ω ± 3
Nominal Capacitance	:	49 pF/m ± 3
Velocity of Propagation	:	82%

Attenuation @20°C

Frequency (MHz)	Attenuation (per 100m)	Frequency (MHz)	Attenuation (per 100m)
5	≤ 1.6 dB	800	≤ 18.8 dB
50	≤ 4.6 dB	1000	≤ 21.5 dB
100	≤ 6.5 dB	1350	≤ 25.7 dB
200	≤ 9.5 dB	1750	≤ 29.0 dB
500	≤ 15.5 dB	2150	≤ 32.5 dB

Return Loss @ 20°C

Frequency (MHz)	Return Loss
5MHz - 470MHz	≥ 23 dB
470MHz - 220MHz	≥ 18 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: 06/03/2023

Revision Number: 2.0

Written by: GB

Authorised by: GB