

Part Number: 480003E-BLK

Description: RG58 C/U 50ohm Coaxial Cable PVC
Black



Product Construction

Conductor Material	:	Tinned Copper
Conductor Stranding	:	Stranded, 19/0.18mm
Dielectric Material	:	Solid Polyethylene (SPE)
Dielectric Diameter	:	2.95mm ± 0.10
Screening 1	:	Tinned Copper Wire Braid
Screening 1 Coverage	:	> 95% ± 3
Sheath Material	:	Polyvinyl Chloride (PVC)
Sheath Colour	:	Black



Mechanical Characteristics

Overall Diameter	:	4.95mm ± 0.15mm
Temperature Range	Fixed	-20°C to +70°C
Bend Radius	:	10 x Overall Diameter
Weight	:	40 kg/km

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 40.0 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 18.5 Ω/km @ 20°C
Impedance	:	50 Ω ± 2
Nominal Capacitance	:	100 pF/m ± 3
Velocity of Propagation	:	66%
Nominal Inductance	:	0.194 μH/m
Peak Power	:	16 k
Nominal Delay	:	5.05 ns/m
Maximum Operating Voltage	:	1.4 kV RMS

Attenuation @20°C

Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Return Loss
100	≤ 20.8 dB	650	≤ 43.5 dB	30MHz - 1000MHz	≥ 21 dB
200	≤ 23.1 dB	1000	≤ 58.5 dB	1000MHz - 2000MHz	≥ 18 dB
400	≤ 34.5 dB	2000	≤ 92.6 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: 31/07/2023

Revision Number: 2.0

Written by: GB

Authorised by: GB