

BD SD50F 75ohm Medium Flex SDI Video Cable PVC Black



Part Number: 510024E-DB-SD50F-BLK

Description: BD SD50F 75ohm Medium Flexible SDI Video Cable PVC Black

Product Construction

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Stranded, 7/0.378mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	3.68mm ± 0.15
Screening 1	:	Tinned Copper Wire Braid
Screening 1 Coverage	:	> 94% ± 3
Screening 2	:	Tinned Copper Wire Braid
Screening 2 Coverage	:	> 94% ± 3
Sheath Material	:	Polyvinyl Chloride (PVC)
Sheath Colour	:	Black

Mechanical Characteristics

Overall Diameter	:	6.15mm ± 0.20mm	
Temperature Range	:	Fixed -15°C to +70°C	Flexing -5°C to +70°C
Bend Radius	:	10 x Overall Diameter	
Weight	:	60kg/km	

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 38.1 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 6.4 Ω/km @ 20°C
Insulation Resistance	:	5000 MΩ.km
Characteristic Impedance	:	75 Ω ± 3Ω
Nominal Capacitance	:	54 pF/m
Velocity of Propagation	:	81%
Nominal Delay	:	4.11 ns/m



Attenuation @20°C

Frequency (MHz)	Attenuation (per 100m)	Frequency (MHz)	Attenuation (per 100m)
1	≤ 1.00	540	≤ 24.28
5	≤ 1.97	1000	≤ 34.45
10	≤ 2.96	1500	≤ 43.64
71.5	≤ 8.20	2000	≤ 51.51
88.5	≤ 9.19	2250	≤ 55.45
135	≤ 17.5	3000	≤ 66.60
180	≤ 25.1	4500	≤ 83.92
270	≤ 30.5	6000	≤ 96.00

Return Loss @ 20°C

Frequency	Return Loss
5MHz – 850MHz	≥ 20
851MHz – 4500MHz	≥ 15

Certifications & Standards

Flame Retardancy	:	BS EN 60332-1-2
Low Smoke	:	BS EN 61034-2
Halogen Gas	:	BS EN 60754-1&2
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
UKCA CPR Classification	:	Eca to BS EN 50575:2014+A1:2016