

BD SD10F 75ohm Large Flex SDI Video Cable PVC Black



Part Number: 510026E-DB-SD10F-BLK

Description: BD SD10F 75ohm Large Flexible SDI Video Cable PVC Black

**Product Construction**

|                      |   |                          |
|----------------------|---|--------------------------|
| Conductor Material   | : | Plain Annealed Copper    |
| Conductor Stranding  | : | Stranded, 7/0.43mm       |
| Dielectric Material  | : | Foam Polyethylene (FPE)  |
| Dielectric Diameter  | : | 4.57mm ± 0.15            |
| Screening 1          | : | Tinned Copper Wire Braid |
| Screening 1 Coverage | : | > 93% ± 3                |
| Screening 2          | : | Tinned Copper Wire Braid |
| Screening 2 Coverage | : | > 94% ± 3                |
| Sheath Material      | : | Polyvinyl Chloride (PVC) |
| Sheath Colour        | : | Black                    |

**Mechanical Characteristics**

|                   |   |                       |                       |
|-------------------|---|-----------------------|-----------------------|
| Overall Diameter  | : | 7.0mm ± 0.20mm        |                       |
| Temperature Range | : | Fixed -15°C to +70°C  | Flexing -5°C to +70°C |
| Bend Radius       | : | 10 x Overall Diameter |                       |
| Weight            | : | 80kg/km               |                       |

**Electrical Characteristics**

|                               |   |                    |
|-------------------------------|---|--------------------|
| Inner Conductor DC Resistance | : | ≤ 24.2 Ω/km @ 20°C |
| Outer Conductor DC Resistance | : | ≤ 5.5 Ω/km @ 20°C  |
| Insulation Resistance         | : | 5000 MΩ.km         |
| Characteristic Impedance      | : | 75 Ω ± 3Ω          |
| Nominal Capacitance           | : | 52 pF/m            |
| Velocity of Propagation       | : | 86%                |
| Nominal Delay                 | : | 3.87 ns/m          |



**Attenuation @20°C**

| Frequency (MHz) | Attenuation (per 100m) | Frequency (MHz) | Attenuation (per 100m) |
|-----------------|------------------------|-----------------|------------------------|
| 1               | ≤ 0.79                 | 540             | ≤ 19.36                |
| 5               | ≤ 1.77                 | 1000            | ≤ 26.90                |
| 10              | ≤ 2.36                 | 1500            | ≤ 34.12                |
| 71.5            | ≤ 6.56                 | 2000            | ≤ 40.36                |
| 88.5            | ≤ 7.22                 | 2250            | ≤ 43.31                |
| 135             | ≤ 9.19                 | 3000            | ≤ 51.18                |
| 180             | ≤ 10.83                | 4500            | ≤ 64.96                |
| 270             | ≤ 13.12                | 6000            | ≤ 74.50                |

**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 |