



Product: [70081](#)

70081 - 75 Ohm SDI Coax, RG-59, 20 AWG Solid BC, Foil + 80% TC Braid, PVC Jkt

Product Description

75 Ohm SDI Coax, RG-59, 20 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 80% Tinned Copper Braid Shield, PVC Jacket.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p; The cable is UV-resistant and suitable for indoor and outdoor use |
|------------------------|--|

Construction Details

| | |
|----------|----|
| RG Type: | 59 |
|----------|----|

Conductor

| No. of Elements | Size | Stranding | Nom. Diameter | Material |
|-----------------|--------|-----------|---------------|------------------|
| 1 | 20 AWG | Solid | 0.81 mm | BC - Bare Copper |

Insulation

| Element | Material | Nom. Insulation Diameter |
|---------------------|--------------------------|--------------------------|
| Insulated Conductor | PE - Polyethylene (Foam) | 3.68 mm (0.145 in) |

Outer Shield

| Layer | Outer Shield Type | Material | Coverage |
|-------|-------------------|-------------------------------|----------|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | 100% |
| 2 | Braid | Tinned Copper (TC) | 80% |

Outer Jacket

| Material | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 5.92 mm |

Electrical Characteristics

Return Loss (RL)

| Frequency | Min. Return Loss |
|-----------------|------------------|
| 5 - 1600 MHz | 23 dB |
| 1600 - 4500 MHz | 21 dB |
| 4500 - 6000 MHz | 15 dB |

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz | 1 dB/100m |
| 3.6 MHz | 2 dB/100m |
| 10 MHz | 3 dB/100m |
| 71.5 MHz | 6.9 dB/100m |
| 135 MHz | 8.9 dB/100m |
| 270 MHz | 12.5 dB/100m |
| 360 MHz | 14.4 dB/100m |
| 540 MHz | 18.1 dB/100m |

| | |
|----------|--------------|
| 720 MHz | 21 dB/100m |
| 750 MHz | 21.3 dB/100m |
| 1000 MHz | 24.9 dB/100m |
| 1500 MHz | 30.5 dB/100m |
| 2250 MHz | 38 dB/100m |
| 3000 MHz | 44 dB/100m |
| 4500 MHz | 53.8 dB/100m |
| 6000 MHz | 66.8 dB/100m |

| | |
|--------------|-----------------------------|
| Table Notes: | Max. attenuation 10% higher |
|--------------|-----------------------------|

Electricals

| Max. Conductor DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|----------------------------|---------------------------------|-------------------------------|------------------------|
| 32 Ohm/km (9.8 Ohm/1000ft) | 53 pF/m (16 pF/ft) | 75 Ohm | 83% |

Mechanical Characteristics

Temperature

| Operating | Installation | Storage |
|----------------|---------------|----------------|
| -30°C To +70°C | -5°C To +50°C | -30°C To +70°C |

Bend Radius

| Stationary Min. |
|-----------------|
| 60 mm (2.4 in) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 200 N (45 lbf) |
|--------------------|----------------|

Standards and Compliance

| | |
|----------------------------------|--------------------------------|
| Environmental Suitability: | Indoor/Outdoor - Euroclass Eca |
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| CENELEC Compliance: | EN 50117-1, EN 50290-2-20 |
| European Directive Compliance: | EU CE Mark |
| UK Regulation Compliance: | UKCA Mark |
| Other Standard Compliance(s): | SDTV/HDTV |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.277 Revision Date: 02-28-2025 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | EAN |
|-------------|-------|------------|--------|---------------|
| 70081.00500 | Black | Reel | 500 m | 8719605011084 |

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