



Part Number: 1280R

RGB Video, Mini Hi-Res, #25-6 Coax Solid TC, CMR

Product Description

RGB Video Coax, Riser-CMR, 6-25 AWG tinned copper conductors, foam HDPE insulation, Duobond® foil + 95% tinned copper interlocked serve shield, inner PVC jackets, PVC jacket

Technical Specifications

| | |
|-------------------------------|--|
| Suitable Applications: | RGB Projectors, LCD Projectors, Video Distribution, Component Video, Graphic Displays, Special Effects Editing, Animation, Video Post Production, Home Theater, Offices, Boardrooms, Auditoriums, Teleconferencing, Theaters |
|-------------------------------|--|

Construction and Dimensions

Conductor:

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------|------------------|-------------|
| 25 | Solid | TC - Tinned Copper | 0.018 in | 6 |

| | |
|------------------------------------|---|
| Total Number of Conductors: | 6 |
|------------------------------------|---|

Insulation:

| Material | Nominal Diameter |
|---|------------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 0.074 in |

Color Chart 3:

| Number | Color |
|--------|--------|
| 1 | Red |
| 2 | Green |
| 3 | Blue |
| 4 | Yellow |
| 5 | Black |
| 6 | White |

Innershield:

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------------------|-------|---|---------------------|--------------|
| Tape | 1 | Aluminum Foil-Polyester Tape Lightly bonded to dielectric | Duobond® | 100 % |
| Interlocked Serve | 2 | TC - Tinned Copper | | 95 % |

Innerjacket:

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.114 in |

Outerjacket 1:

| Material | Nominal Diameter | Ripcord |
|--------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 0.423 in | Yes |

Electrical Characteristics

Conductor DCR:

| Nominal Conductor DCR | Nominal Inner Shield DCR |
|-----------------------|--------------------------|
| 34 Ohm/1000ft | 5.4 Ohm/1000ft |

Capacitance:

| Nom. Capacitance Conductor to Shield | |
|--------------------------------------|-------------|
| 17 pF/ft | |
| Sweep Testing: | 5 - 850 MHz |

Impedance:

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm |

High Frequency (Nominal/Typical):

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.52 dB/100ft |
| 5 MHz | 1.17 dB/100ft |
| 50 MHz | 3.7 dB/100ft |
| 100 MHz | 4.9 dB/100ft |
| 200 MHz | 6.7 dB/100ft |
| 400 MHz | 9.5 dB/100ft |
| 750 MHz | 13.4 dB/100ft |
| 900 MHz | 15 dB/100ft |
| 1000 MHz | 15.8 dB/100ft |
| 3000 MHz | 31.2 dB/100ft |

Delay:

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.24 ns/ft | 80 % |

High Freq:

| Min. RL (Return Loss) [dB] |
|----------------------------|
| 20 dB |

Inductance:

| Nominal Inductance |
|--------------------|
| 0.087 μ H/ft |

Voltage:

| Non-UL Voltage Rating | UL Voltage Rating |
|-----------------------|-------------------|
| 300V RMS | 300V RMS V |

Use

| | |
|----------------------------------|--------------|
| Suitability - Indoor: | Yes - Risers |
| Max Recommended Pulling Tension: | 135 lbs |

Safety

| | |
|-------------------|-----------------------|
| CSA Flammability: | FT4 |
| UL Flammability: | UL1666 Vertical Shaft |

Temperature Range

| | |
|-----------------------|-------------------|
| Non-UL Temp Rating: | 75°C °C |
| Operating Temp Range: | -40°C To +75°C °C |
| UL Temp Rating: | 60°C °C |

Mechanical Characteristics

| | |
|------------------------------|---------|
| Min Bend Radius (Each Coax): | 1.1 in |
| Min Bend Radius (Overall): | 4.25 in |

Part Number

| | |
|-----------------------|---|
| Plenum (Y/N): | No |
| Suggested Connectors: | ADC - BNC-16; KINGS - 2065-25-9; TROMPETER - 105-2053-0; BELDEN 1B25A (BNC); BELDEN 1R25A (RCA) |

Standards

| | |
|-----------------------------------|-------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| CEC/C(UL) Specification: | CMG |
| MII Order #39 (China RoHS): | Yes |
| NEC/(UL) Specification: | CMR |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | No |

Product Variants

| Part Number | Color | Put-Up Type | Length |
|---------------|--------------|-------------|---------|
| 1280R | BLACK, MATTE | Reel | 1000 ft |
| 1280R | MATTE BLACK | Reel | 305 m |
| 1280R B591000 | BLACK, MATTE | Reel | 1000 ft |
| 1280R | BLACK, MATTE | Reel | 500 ft |
| 1280R | MATTE BLACK | Reel | 152 m |
| 1280R B59500 | BLACK, MATTE | Reel | 500 ft |
| 1280R | | | |

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