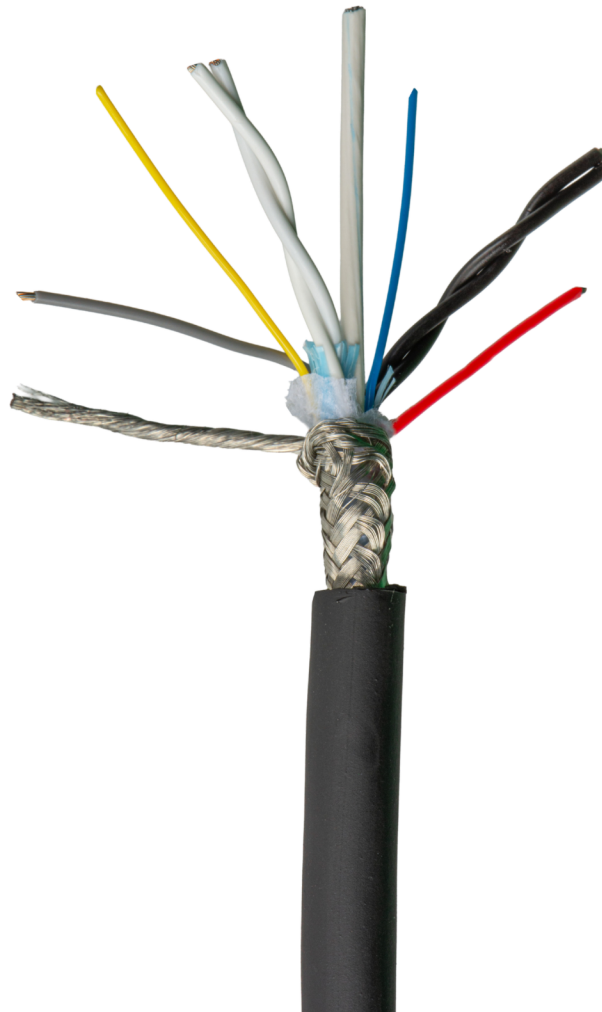


Complex C96921 Datasheet

The Complex C96921 is a riser-rated hybrid SMPTE 311M HDTC camera cable that is designed for broadcast production workflows that need both power and Single Mode fiber in one assembly. It is built to support camera-to-CCU connections in professional video systems while ensuring that cable runs meet UL 1666 flame-test requirements for installation in commercial spaces.

Features:

- Riser Rated SMPTE 311M Compliant Broadcast Studio Cable
- Hybrid Construction Combines Copper Conductors and Single Mode Fiber for Camera Power and Optical Transmission
- Rugged Build with UV-Resistant Thermoplastic Elastomer Jacket, Tinned Copper Braid Shield, and Upjacketed Stranded Steel Strength Member



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Specifications:

Component 1:

- **Conductor AWG:** 20 AWG
- **Conductor Stranding:** 19/32
- **Conductor Material:** Tinned Copper
- **Insulation Material:** Polyethylene
- **Nom. Diameter:** 0.060in (1.52mm)
- **Colors:** (2) White, (2) Black

Component 2:

- **Conductor AWG:** 24 AWG
- **Conductor Stranding:** 7/32
- **Conductor Material:** Tinned Copper
- **Insulation Material:** Polyethylene
- **Nom. Diameter:** 0.045in (1.14mm)
- **Colors:** Gray, Red

Component 3:

- **Fiber Type:** OS2 Single Mode
- **Number of Channels:** 2
- **Buffer:** Tight Buffer
- **Material:** Thermoplastic
- **Diameter:** 900 ± 50 micron (.035 ± .002 in.)
- **Colors:** Blue, Yellow

Overall Construction:

- **Cable Assembly:** 4 of Component 1, 2 of Component 2, and 2 of Component 3 are cabled together with fillers to make round
- **Strength Element:** Upjacketed Stranded Steel Member
- **Barrier:** Overall Barrier Tape (25% Overlap, Nominal)
- **Shield Material/Coverage %:** Tinned Copper Braid 36 AWG, 90% Minimum
- **Jacket Material:** Polyvinyl Chloride
- **Jacket Thickness:** 0.060in (1.52mm)
- **Jacket Color:** UV-resistant Black
- **Overall Cable Diameter:** 0.362 in. ± 0.012 in (9.19mm ± 0.30mm)
- **Voltage Rating:** 300V
- **Optical Attenuation @ 1310nm:** <0.8dB/km
- **Component 1 (20 AWG) DCR:** <36Ω/km
- **Component 2 (24 AWG) DCR:** <92Ω/km
- **Max. Cable Pull Strength:** 160lbs
- **Min Bend Radius:** 2.5in (63.5mm)
- **Temperature:**
 - Operation: -4°F to 167°F (-20°C to 75°C)
 - Installation: 32°F to 167°F (-0°C to 75°C)