



**Technical Specifications**

**Product Line: 24-1P-P-DIG-AUDIO**

**Description**

1 pair 24 AWG stranded, twisted, and shielded cable

NEC type CMP and CEC type CMP FT6. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC articles 725 and 800.

**Conductor**

24 AWG

7-strand tinned annealed bare copper conductors

Diameter: 0.024" | 0.61mm

**Insulation**

Foam fluorinated ethylene propylene

Wall thickness: 0.020" | 0.51mm

Diameter: 0.064" | 1.63mm

**Color Code**

Black, White

**Assembly**

Pair lay length: 1.5" | 40mm

8.0 twists per foot | 25 twists per meter

**Construct**

N/A

**Shield**

100% aluminum/polyester tape bonded to jacket foil in

24 AWG 7-strand tinned copper drain

**Jacket**

Pressure extruded plenum rated polyvinyl chloride

Colors: Natural White

Wall thickness: 0.015" | 0.38mm

Diameter: 0.165" | 4.19mm

Specification Revision Date:

**Electrical**

DC resistance: 26.5  $\Omega$  / 1000' | 86.92  $\Omega$ /KM

Mutual capacitance: 11.5 pF/FT | 37.72 pF/M

Impedance: 110  $\Omega$

Velocity of Propagation: 78%

Voltage rating: 300V

Maximum current: 2.0A@25°C

**Regulatory**

NEC: CMP 75°C

CEC: CMP FT6 60°C

EU RoHS 2002/95/EC Compliant

**Packages**

Reel: 1000' | 305M

Weight: 13 Lbs/1000' | 19 Kg/KM

**Installation**

Pull Tension: 16 Lbs | 71 N

Bend radius: 1.65" | 42mm unloaded

Bend radius: 3.30 | 84mm loaded

Plenum cable should be conditioned at room temperature for 24 hours prior to installation and never installed below 32°F | 0°C ambient temperature

**Applications**

Plenum Digital Audio AES/EBU 110  $\Omega$

Plenum broadcast quality line level balanced audio

Plenum low voltage control and RS-232C signaling

Plenum simplex RS-485 and DMX-512

**Performance**

AES/EBU 48KHz: 1100 feet

AES/EBU 192KHz: 640 feet

Assuming 600  $\Omega$  source impedance:

Line level balanced audio 500 feet

**Final Outside Diameter (inches)**

0.165

September 22, 2010

