



**Technical Specifications**

**Product Line: 24-1P-P485**

**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

**Electrical**

DC resistance: 25.67  $\Omega$  / 1000' | 84.20  $\Omega$ /KM  
Shield DCR: 4.77  $\Omega$  / 1000' | 15.65  $\Omega$ /KM  
Mutual capacitance: 12.0 pF/FT | 39.36 pF/M  
Shield capacitance: 22.0 pF/FT | 72.16 pF/M  
Impedance: 120  $\Omega$   
Velocity of Propagation: 79%  
Voltage rating: 300V  
Maximum current: 2.0A@25°C

**Insulation**

Foam fluorinated ethylene propylene  
Wall thickness: 0.019" | 0.48mm  
Diameter: 0.062" | 1.57mm

**Regulatory**

NEC: CMP 60°C  
CEC: CMP FT6 60°C  
EU RoHS III 2015/863/EU Compliant  
REACH (EC) No 1907/2006 Compliant

**Color Code**

Pair 1: Blue, White/Blue

**Packages**

Reel: 1000' | 305M  
Weight: 30 Lbs/1000' | 45 Kg/KM

**Assembly**

Pair lay length: 2.25" | 57mm  
5.3 twists per foot | 17.5 twists per meter

**Installation**

Pull Tension: 30 Lbs | 133 N  
Bend radius: 1.75" | 45mm unloaded  
Bend radius: 3.50" | 90mm 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

**Construct**

Ripcord under jacket

**Applications**

Plenum Simplex RS-485 and DMX-512  
Plenum low voltage control, RS-422, RS-232C signaling

**Shield**

Shield 1: 100% aluminum/polyester tape foil out  
Shield 2: 90% 16/6/36 AWG tinned copper braid  
24 AWG 7-strand tinned copper drain

**Performance**

DMX-512 Standard is 4,000 feet  
Recommended maximum is 1,200 feet

**Jacket**

Plenum rated polyvinyl chloride  
Colors: Natural White  
Wall thickness: 0.015" | 0.38mm  
Diameter: 0.175" | 4.45mm

**Final Outside Diameter (inches)**

0.175

Specification Revision Date:

March 29, 2018

