



## Technical Specifications

Product Line: 24-2P-P485

### Description

2 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 article(s) 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: 2.4  $\Omega$  / 1000' | 7.87  $\Omega$ /KM  
Mutual capacitance: 10.5 pF/FT | 34.44 pF/M  
Shield capacitance: 18.4 pF/FT | 62.32 pF/M  
Impedance: 120  $\Omega$   
Velocity of Propagation: 79%  
Voltage rating: 300V  
Maximum current: 1.6A@25°C

### Insulation

Foam fluorinated ethylene propylene  
Wall thickness: 0.022" | 0.56mm  
Diameter: 0.068" | 1.73mm

### 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  
Pair 2: Orange, White/Orange

### Packages

Reel: 1000' | 305M  
Weight: 46 Lbs/1000' | 69 Kg/KM

### Assembly

Pair lay length: 1.0" | 25.4mm  
12.0 twists per foot | 80 twists per meter  
2 pairs cabled on a common axis

### Installation

Pull Tension: 52 Lbs | 231 N  
Bend radius: 2.77" | 57mm unloaded  
Bend radius: 5.54 | 114mm 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 full duplex 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% 16/10/36 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: 0.277" | 5.70mm

### Final Outside Diameter (inches)

0.277

Specification Revision Date:

September 5, 2007