

Technical Specifications

Product Line: 24-1P-485

Description

1 pair 24 AWG stranded, twisted, and shielded cable NEC type CM and CEC type CMG FT4. 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 Ω / 1000' | 84.20 Ω /KM
 Shield DCR: 3.59 Ω / 1000' | 11.78 Ω /KM
 Mutual capacitance: 12.8 pF/FT | 42.0 pF/M
 Shield capacitance: 23.0 pF/FT | 75.44 pF/M
 Impedance: 120 Ω
 Velocity of Propagation: 78%
 Voltage rating: 300V
 Maximum current: 2.0A@25°C

Insulation

Foam polyethylene
 Wall thickness: 0.025" | 0.635mm
 Diameter: 0.074" | 1.88mm

Regulatory

NEC: CM 75°C
 CEC: CMG FT4 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: 34 Lbs/1000' | 51 Kg/KM

Assembly

Pair lay length: 2.50" | 63.5mm
 4.80 twists per foot | 15.75 twists per meter

Installation

Pull Tension: 33 Lbs | 147 N
 Bend radius: 2.29" | 59mm unloaded
 Bend radius: 4.58" | 117mm loaded

Construct

Ripcord under jacket

Applications

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

Shield

Shield 1: 100% aluminum/polyester tape foil out
 Shield 2: 90% 16/8/36 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

Flame rated polyvinyl chloride
 Colors: Black, Gray
 Wall thickness: 0.030" | 0.76mm
 Diameter: 0.229" | 5.82mm

Final Outside Diameter (inches)

0.229

Specification Revision Date:

March 29, 2018