



Technical Specifications

Product Line: 24-2P-485

Description

2 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 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 Ω / 1000' | 84.20 Ω /KM
Shield DCR: 2.4 Ω / 1000' | 7.87 Ω /KM
Mutual capacitance: 11.2 pF/FT | 34.44 pF/M
Shield capacitance: 19.5 pF/FT | 62.32 pF/M
Impedance: 120 Ω
Velocity of Propagation: 78%
Voltage rating: 300V
Maximum current: 1.6A@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
Pair 2: Orange, White/Orange

Packages

Reel: 1000' | 305M
Weight: 56 Lbs/1000' | 84 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: 3.26" | 83mm unloaded
Bend radius: 6.52 | 166mm loaded

Construct

Ripcord under jacket

Applications

General purpose full duplex 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% 16/10/36 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

Flame rated polyvinyl chloride
Colors: Black, Gray
Wall thickness: 0.030" | 0.76mm
Diameter: 0.326" | 8.28mm

Final Outside Diameter (inches)

0.326

Specification Revision Date:

September 5, 2007