

Coast Wire & Plastic Tech., Inc.

A LATSHAW ENTERPRISE
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METACLAS P/N: **81-815120-70**

CWPT P/N: **10-0521**

Revision: **A**

Customer Name: **MC Electronics**

Belden P/N: **8107**

Preliminary Cable Specification

Cable, 14/C 24 AWG Shielded (7 TP's)

CONDUCTORS

Wire Size & Type: 24 AWG (7/32) Tinned Copper, 10-0100-80
Nom. Wire Diameter: 0.024
Insulation Type: Polypropylene, 60-0750-03
Nom. Ins Thickness: 0.013
Conductor Diameter: **0.051**
Tolerance (+/-): 0.002

SUB-ASSEMBLY Twisted Pair

Colors: #1 White/Blue P/W Blue/White
#2 White/Orange P/W Orange/White
#3 White/Green P/W Green/White
#4 White/Brown P/W Brown/White
#5 White/Gray P/W Gray/White
#6 Red/Blue P/W Blue/Red
#7 Red/Orange P/W Orange/Red

ASSEMBLY

Core Cabling: 7 Twisted Pairs Cabled
Lay Up: 1 + 6
Filler: Blue Fibrillated Polypropylene **IF** required for uniform round construction.
Shield: Aluminum/Mylar (100% Coverage, 25% Min. Overlap, Foil Facing Out)
Drain: 24 AWG(7/32) Tinned Copper, 10-0100-80 (Touching Foil)

SHIELD

Type: Braid
Material: Tinned Copper
Required Coverage: 65% minimum
Visual Coverage: 73.28%
AWG: #36, 10-0100-12

JACKET

Material Type: Gray PVC, 60-0600-15
Separator: None
Nom. Jkt Thickness: 0.033
Cable Diameter: **0.345**
Tolerance (+/-): 0.012
Print: Ink Color Black
Legend: E64207  AWM STYLE 2919 80°C 30V 24/14C - - - RoHS

TESTS

Test 1: Continuity
Test 2: Shorts
Test 3: Physical/Dimensional

ELECTRICAL CHARACTERISTICS

Impedance: 100 Ohm
Capacitance: 12.5 pF/ft Conductor to Conductor
Capacitance: 22 pF/ft Conductor to Other Conductor & Shield
Velocity of Propagation: 78%

MISCELLANEOUS

Put Ups: Bulk
Reel: Wood or Plastic
Weight: TBD

APPROVALS

Singles: UL 10046 (80°C, 30V)
Final Product: UL 2919 (80°C, 30V)



Rev A Added Electrical Characteristics MC 11/4/10

UNCONTROLLED COPY	Dimensions in inches unless otherwise specified			UNCONTROLLED COPY
	.XXX = +/- .005	.XX = +/- .02	.X = +/- .1	

Prepared By: Mike Cother

Date: 7/14/2010

Customer Approval:

Title: _____

Date: _____

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