

SHEET REV. 1 N/C

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REVISIONS				
ECN	REV	DESCRIPTION	DATE	APPROVED
20029	1	PREPRODUCTION RELEASE	6/8/04	DEK
24663	N/C	RELEASE FOR PRODUCTION	1/27/06	DSPK

DWG. NO. 912404-C

ECS P/N 912404

1 Twisted Data Pair

- Conductor : 24 AWG Tinned copper
- Insulation : Low density, high temperature fluoropolymer
- Color code : Green, White

2 Single Power Wires

- Conductor : 24 AWG Tinned copper
- Insulation : High temperature fluoropolymer
- Color code : Red, Black

Overall Cable

- Shield 1 : Aluminum Polyester tape, 100% coverage
- Drain Wire : 24 AWG Tinned copper
- Shield 2 : 38 AWG Tinned copper braid 85% coverage minimum
- Jacket : White abrasion resistant high temperature fluoropolymer (laser markable)
- Cable marking : Cable will be marked ECS part number

Performance Attributes

PHYSICAL

- Cable O.D. : .180 Nominal
- Weight : 2.3 lbs/100 ft
- Bend Radius : .90 Minimum
- Operating Temperature : -55 to +150°C
- Skydrol resistant

ELECTRICAL (data pair)

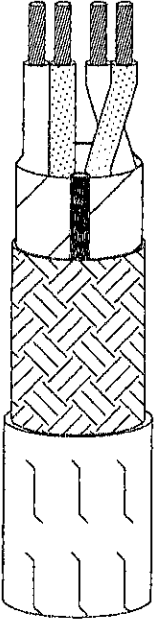
- Impedance : 90 Ohms ±15%
- Attenuation : < 3.8 dB/5 m @ 400 MHz.
- Conductor DC Resistance: .0511 Ohms/Meter maximum
- Resistance Unbalanced : < 5%
- Propagation Delay : 26 nS/5 Meter maximum full/high speed
- Maximum Skew : 100 pS/5 Meter maximum

ELECTRICAL (power wires)

- Conductor DC Resistance: .0854 Ohms/Meter maximum

ENVIRONMENTAL

- Flammability : Complies with the requirements of FAR 25.853(a), and FAR 25.869(a)(4)




ELECTRONIC CABLE SPECIALISTS
 FRANKLIN, WI 53132
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TITLE CUSTOMER SPECIFICATION
4 CONDUCTOR USB CABLE
ECS P/N 912404

APPROVALS	DATE
DESIGNED BY P. PHALPHOUVONG	05/24/04
CHECKED BY D. KNOLL	06/08/04
ENGRG MGR D. KNOLL	06/08/04

SIZE	CAGE CODE	LEVEL	ECS PART NO.	REV.
A	66197		912404	N/C
SCALE			SHEET 1 OF 1	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
 DECIMALS
 XX ±.03
 XXX ±.010

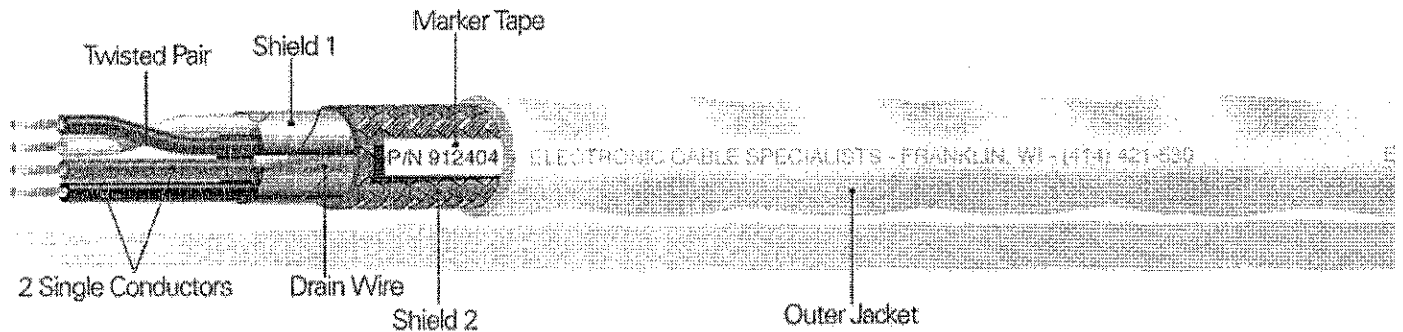




Providing complete avionics installation provisions
and support for the Aviation industry since 1984.

USB Cable

P/N 912404



4 Conductors:

1 Twisted Data Pair:

Conductors: 24 AWG tin plated copper
Insulation: High temperature flouropolymer
Color Code: Green, White

2 Single Power Wires:

Conductors: 24 AWG tin plated copper
Insulation: High temperature flouropolymer
Color Code: Red, Black

Overall Cable:

Shield 1: Aluminum/Polyester tape
Drain Wire: 24 AWG tin plated copper
Shield 2: 38 AWG tin plated copper braid
Jacket: White high temperature flouropolymer
(laser markable)

Physical Characteristics

Outer Diameter: 0.18 inches nominal
Bend Radius: 0.9 inches nominal
Weight: 2.3 lbs/100 feet nominal
Temperature Range: -55° to +150° C
Skydrol Resistant: Yes

Electrical Characteristics (Data)

Impedance: 90 Ohms nominal
DC Resistance: 0.0511 Ohms/m maximum
Resistance Unbalanced: < 5%
Propogation Delay: 26 ns/5 m full/high speed
Skew: 100 pS/5m maximum
Attenuation: 400 MHz 3.8 dB/5 m nominal

Electrical Characteristics (Power)

DC Resistance: 0.0854 Ohms/m maximum

Applications

USB

Environmental:

- ECS data bus cables are designed to meet, or exceed, burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- They are manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

Cage Code: 66197 • **Issue Date:** 9/21/09

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