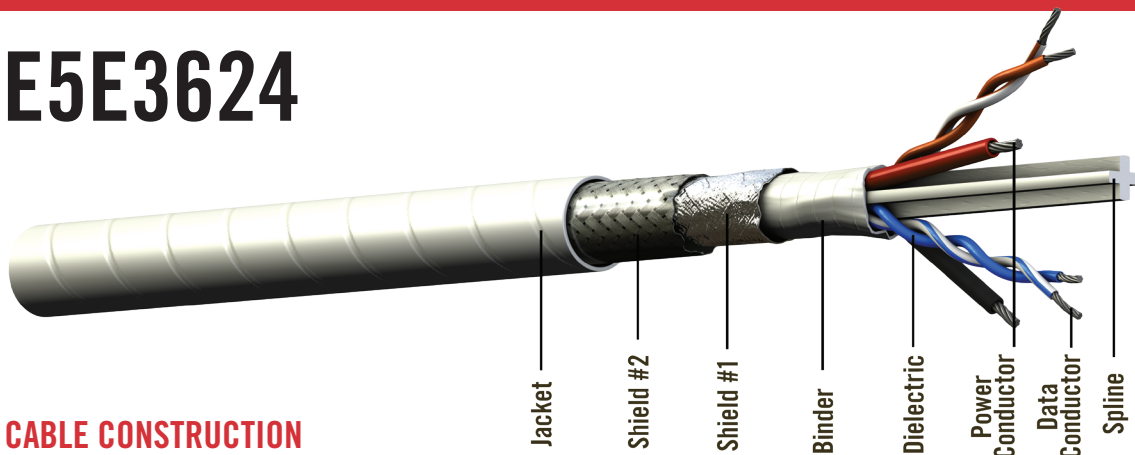


E5E3624



CABLE CONSTRUCTION

Data Conductor: Silver-Plated Copper-Alloy
Power Conductor: Silver-Plated Copper
Dielectric: PFA
Spline: Fluoropolymer

Binder: PTFE Tape
Shield #1: Aluminum/Polyimide Foil
Shield #2: Silver-Plated Copper Braid
Jacket: PTFE, White (Laser Markable)

COLOR CODES

Pair #1: Blue, White/Blue

Power Pair: Red, Black

Pair #2: Orange, White/Orange Stripe

The E5E3624 is a CAT5e Power over Ethernet (PoE) cable specially designed for airborne applications as defined by ARINC Specification 664. The E5E3624 data pairs are manufactured using a high-temp fluoropolymer and will perform at frequencies from CAT 5e, up to CAT 6a requirements. The E5E3624's twisted-pair construction (two separate pairs) of silver-plated copper conductors is surrounded by PFA insulation assuring uniform conductivity with excellent solderability. The 100% foil and 90% braided shielding assures uniform conductivity with excellent solderability, further protecting against EMI. A PTFE laser markable jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

PHYSICAL DATA

Conductors:
 Data: 24 AWG Stranded SPCA
 Power: 20 AWG Stranded SPC
Shield Coverage: 100% (Foil),
 90% (Braid)
Temperature Range: -55 to +200°C
Outer Diameter: in (mm) 0.25 (6.35)
Minimum Bend Radius: in (mm) 0.80 (20.32)
Weight: lbs/100 ft (kg/100 m) 4.5 (6.7)

ELECTRICAL DATA

Impedance: 100 ohms
Capacitance: pF/ft (m) 14 (46.0)
Velocity of Propagation: 70%
Dielectric Voltage Rating: (kV, RMS) 1.5
DC Resistance: ohms/1000 ft (m)
 Power Pair: 9.1 (29.9)
 Data Pair: 28.5 (93.5)
Max Distance*: ft (m) 268 (82)

ENVIRONMENTAL DATA

Skydrol Resistant: SAE AS4373E, Method 601
RoHS Compliant: RoHS Directive 2002/95/EC
Flame / Smoke Requirements: FAR Part 25.869 (a) App. F, Part 1, (a)(3)
Berry Specialty Metals Compliance: Complies with DFARS 252.225-7014, Alt 1

ATTENUATION DATA

Frequency	Nom / Max dB/100 ft	Nom / Max (dB/100 m)
@10 MHz	2.2/2.6	(7.2/8.5)
@100 MHz	6.8/8.2	(22.3/26.9)

All values nominal, unless otherwise noted

E5E3624 POWER OVER ETHERNET CABLE

