E12224

Labels: Jacket, Shield #2, Sheild #1, Filler, Dielectric, Conductor
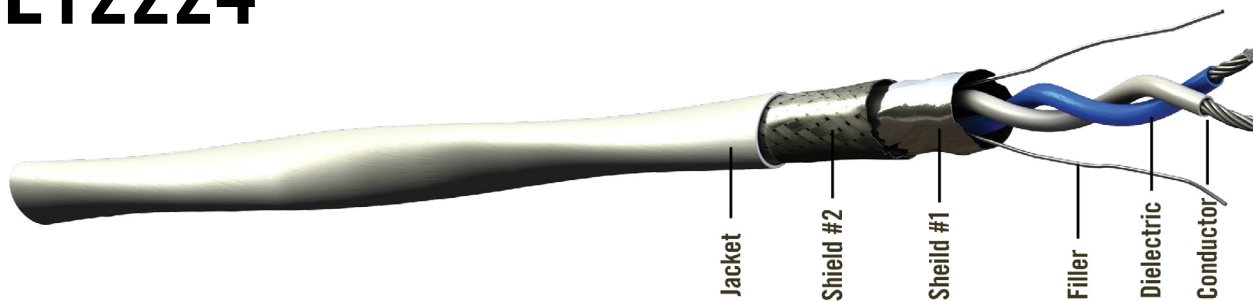
E12224   CAT 5E ETHERNET CABLE

CABLE CONSTRUCTION

Conductors: Tin-Plated Copper
Dielectric: FEP
Fillers: Fluoropolymer
Shield #1: Aluminum/Polyester Foil

Shield #2: Tin-Plated Copper Braid
Jacket: ETFE, White (Laser Markable)

COLOR CODES

Pair #1: White/Blue

The E12224 is a 1 pair, 10/100 Base-T CAT5e cable (exceeding ANSI/TIA-568-C.2 CAT 5e Channel Requirements) with a smaller overall diameter and weight while retaining performance and required operating parameters up to 255 ft. The stranded tin-plated copper conductors protect against vibration, oxidation, and corrosion. The 100% foil and 85% braided shielding provide mechanical strength and EMI protection and maintain weight and flexibility. A durable ETFE laser-markable jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation. E12224 is suitable for airborne 10/100 Base-T CAT5e Local Area Network applications such as cabin management systems (CMS), in-flight entertainment (IFE), and Ethernet backbones.

PHYSICAL DATA

Conductor:	24 AWG Stranded TPC
Shield Coverage:	100% (Foil), 85% (Braid)
Temperature Range:	-55 to +150°C
Outer Diameter: in (mm)	0.146 (3.71)
Minimum Bend Radius: in (mm)	0.75 (19.05)
Weight: lbs/100 ft (kg/100 m)	1.58 (2.4)

ELECTRICAL DATA

Impedance:	100 ohms
Capacitance: pF/ft (m)	13 (42.7)
Velocity of Propagation:	80%
Dielectric Voltage Rating: (kV, RMS)	0.9
DC Resistance: ohms/1000 ft (m)	28.4 (93.2)
Max Distance*: ft (m)	255 (78)

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	2.3/2.7	(7.5/8.9)
@100 MHz	8.0/9.2	(26.2/30.2)

All values nominal, unless otherwise noted

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