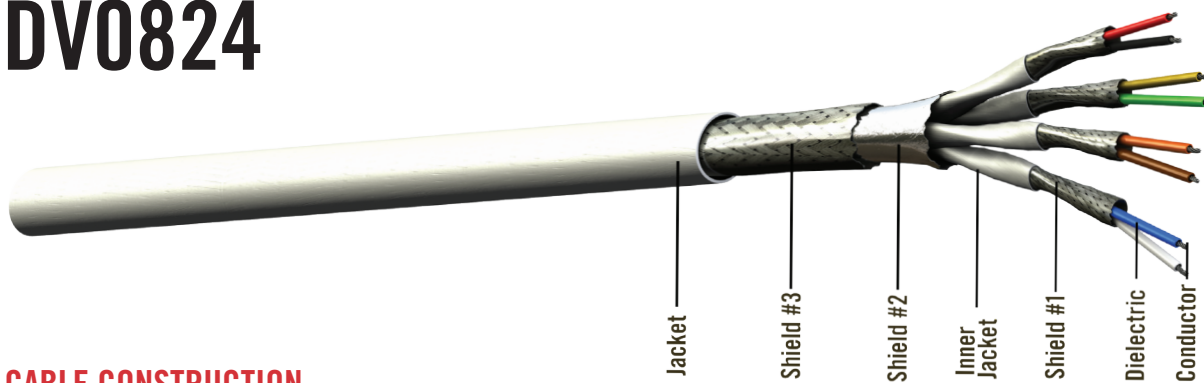


DV0824



CABLE CONSTRUCTION

Conductors: Silver-Plated High Strength Copper Alloy
Dielectric: FEP
Shield #1: Silver-Plated Copper Round Braid (each pair)
Inner Jacket: ETFE, White
Shield #2: Aluminum/Polyester/Aluminum Foil
Shield #3: Silver-Plated Copper Braid
Jacket: ETFE, White (Laser Markable)

COLOR CODES

Pair #1: White/Blue
Pair #2: Yellow/Green
Pair #3: Red/Black
Pair #4: Orange/Brown

The DV0824 is a shielded 4-Pair, 1000 Base-T Ethernet cable that incorporates innovative design features to provide maximum electrical performance in a small, lightweight, and flexible package. The DV0824's twisted-pair construction (four separate pairs) effectively reduces inductive interference while the 100% foil and 90% braided shielding serve to further protect against EMI. The low skew between each pair ensures the signal sent down each pair reaches the other end at approximately the same time. Conductor insulation consists of foamed fluoropolymer, having a higher velocity of propagation. This assures correct impedance matching, thus minimizing reflection — important in high-speed data applications. Each pair is individually shielded and jacketed to provide isolation between pairs. The ETFE jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

PHYSICAL DATA

Conductor: 24 AWG Stranded SPHSCA
Shield Coverage: 80% (Inner Braid)
 100% (Foil)
 95% (Outer Braid)
Temperature Range: -55 to +200°C
Outer Diameter: in (mm) 0.35 (8.89)
Minimum Bend Radius: in (mm) 1.75 (44.45)
Weight: lbs/100 ft (kg/100 m) 7.7 (11.5)

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) 28.5 (93.5)

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	2.4/2.7	(7.9/8.9)
@100 MHz	8.2/8.8	(26.9/28.9)

All values nominal, unless otherwise noted

DV0824

ETHERNET CABLE

