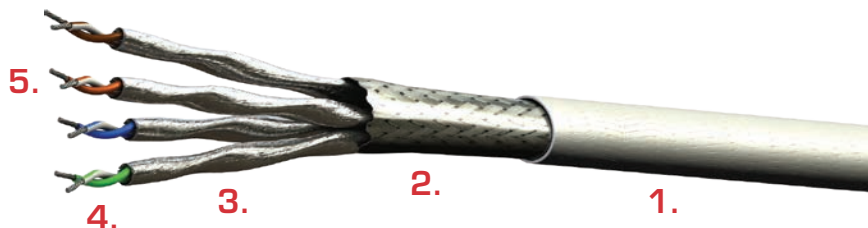


CABLE CONSTRUCTION

1. ETFE Jacket (White) Laser Markable
2. Silver-Plated Copper Round Braid Shield
3. Aluminum/Polyester (Each Pair)
4. Foamed Fluoropolymer Insulation
5. Silver-Plated High Strength Copper Alloy Conductors



COLOR CODES

- Pair #1: Blue, White/Blue
 Pair #2: Green, White/Green
 Pair #3: Brown, White/Brown
 Pair #4: Orange, White/Orange

PIC's DataMATES Ethernet cables incorporate innovative design features that provide maximum electrical performance in a small, lightweight, flexible package.

Each pair uses a SP High Strength Copper alloy conductor and is individually shielded. PIC's E74824 cable delivers 10 Gbit performance per ISO 11801, Class F Channel requirements.

E74824 cable cannot only be used for 10 Gbit Ethernet applications but also can be used for video applications because of the low skew between each pair (3 nS /90m nom).

An ETFE jacket which is laser-markable, passed EN3475-503 Scrape Abrasion testing and is also very flexible for ease of installation.

E74824 is ideal for harsh environment applications that demand high reliability, maximum flexibility and light weight, such as cabin management, in-flight entertainment, internet backbones. It is Skydrol resistant, RoHS compliant and passes the FAA flammability requirements of FAR Part 23 and 25, Appendix F.

PHYSICAL DATA

- Conductors 24 AWG (19/36) Stranded SPCA
- Shield Coverage 100% (Foil), 90% (Braid)
- Operating Temperature -55° to +200°C
- Outer Diameter: in (mm) 0.28 (7.11)
- Minimum Bend Radius: in (mm) 2.20 (55.88)
- Weight: lbs/100 ft (kg/100 m) 4.7 (7.0)

ELECTRICAL DATA

- Impedance: ohms 100
- Capacitance: pF/ft (m) 13.0 (42.7)
- Velocity of Propagation: % 78.0
- Dielectric Voltage Rating (kV RMS) 0.9
- DC Resistance: ohms/1000 ft (m) Max 28.4 (93.2)
- Max Distance: ft (m) 296 (90)
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
 - @100 MHz 6.6 / 7.0 (21.7 / 23.0)
 - @250 MHz 10.8 / 11.4 (35.4 / 37.4)
 - @500 MHz 15.7 / 16.6 (51.5 / 54.5)
 - @600 MHz 17.5 / 18.4 (57.4 / 60.4)

*All values nominal unless otherwise noted
 Note: The max distance is based on maximum channel insertion loss per ISO 11801, Class F*

Description	Connector P/N	Tool P/N
Shielded CAT 6a, 90° Plug w/ATUM Strain Relief	110912 (568A) 110900 (568B)	110701 - Soft Jaw Clamping Pliers
Shielded CAT 8.1, RJ45 Plug	111107 (568B)	110701 - Soft Jaw Clamping Pliers
Shielded CAT 8.1, RJ45 Jack	111109 (568B)	110701 - Soft Jaw Clamping Pliers
Siemon CAT 7 (Tera) Plug, 4 Pair, 24 AWG	110807	110701 - Soft Jaw Clamping Pliers
Siemon CAT 7 (Tera) Jack, 4 Pair, 24 AWG	110808	110701 - Soft Jaw Clamping Pliers

E74824 is an ethernet cable that can be terminated in a variety of ways.

This cable can be terminated into the RJ45 connectors referenced above.

Call PIC For Availability