

MIL-DTL-38999 Series III Type Environmental Connectors 24 AWG Category 6A Ethernet Cables 963-037 and 963-033

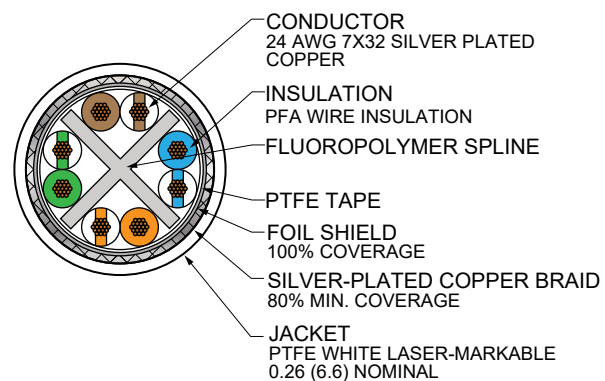
HIGH-SPEED CONNECTORS

24 AWG S/UTP Cat 6A Cable

| | |
|--------------------------|------------|
| Glenair Part Number | 963-037-24 |
| Manufacturer Part Number | E6A3824 |
| Manufacturer | PIC |

S/UTP 24 AWG cable is specially designed for airborne 10 Gigabit Ethernet applications. Twisted pairs are separated by a fluoropolymer spline for reduced crosstalk and attenuation. This 200°C rated cable is Skydrol resistant, RoHS compliant and meets FAA FAR Parts 23 and 25 Appendix F flammability requirements. Laser-markable white PTFE jacket withstands abrasion and chemicals. Meets ANSI/TIA-568-C.2 Category 6A performance up to 246 feet.

Construction Details



Color Code

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

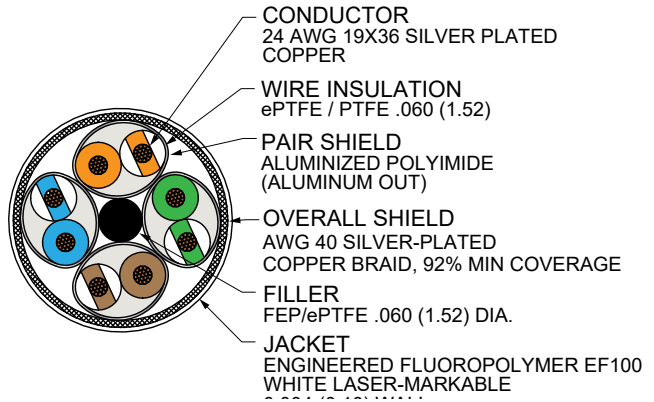
| Specifications | | |
|------------------------------------|----------------|-------------|
| Impedance (ohms) | 100 ±15 | |
| Temperature Rating | -55° to +200°C | |
| Weight (lbs/100 ft.) | 4.5 | |
| Capacitance (pF/ft) | 14.5 | |
| Minimum Bend Radius (inches) | .78 | |
| Velocity of Propagation % | 70 | |
| Dielectric Voltage Rating (kV rms) | 1.5 | |
| DC Resistance, Max (ohms/1000 ft.) | 28.5 | |
| Max Distance in Feet (m) | 246 (75) | |
| Attenuation Nom / Max | Frequency | dB/100 ft. |
| | 10 MHz | 2.3 / 2.6 |
| | 100 MHz | 7.0 / 8.4 |
| | 250 MHz | 11.4 / 13.7 |
| | 500 MHz | 16.5 / 20.0 |

24 AWG S/FTP Cat 6A Cable

| | |
|--------------------------|------------|
| Glenair Part Number | 963-033-24 |
| Manufacturer Part Number | RCN9034-24 |
| Manufacturer | Gore |

S/FTP 24 AWG cable has an individual foil shield around each data pair for reduced crosstalk and attenuation. This high data rate Ethernet cable features a unique cable jacket material and high-density construction that significantly reduces weight and diameter. Meets ANSI/TIA 568-C.2 Category 6A requirements up to 80 meters (262 feet). **Qualified to SAE AS6070.**

Construction Details



Color Code

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

| Specifications | | |
|-----------------------------------|----------------|------|
| Impedance (ohms) | 100 (+10 -5) | |
| Temperature Rating | -65° to +200°C | |
| Weight (lbs/100 ft.) | 4.2 | |
| Capacitance (pF/ft) | 12.5 | |
| Time Delay | 1.24 ns/ft | |
| Maximum Attenuation at 80m Length | Frequency | dB |
| | 10 MHz | 5.9 |
| | 100 MHz | 19.1 |
| | 250 MHz | 31.1 |
| | 500 MHz | 45.3 |
| NEXT (minimum) | Frequency | dB |
| | 1 MHz | 74.3 |
| | 10 MHz | 59.2 |
| | 100 MHz | 52.3 |
| | 250 MHz | 47.9 |
| | 500 MHz | 42.2 |