

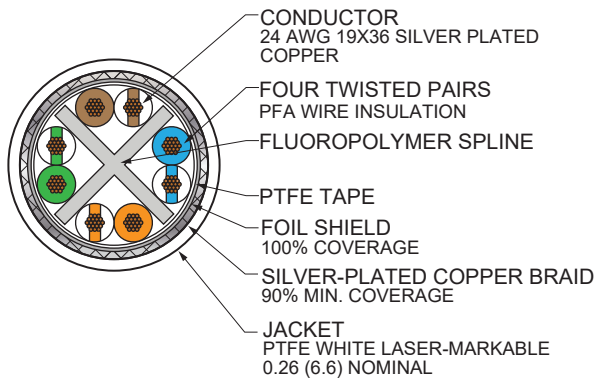
24 AWG Category 6A Ethernet Cables 963-037 and 963-033 MIL-DTL-38999 Series III type

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

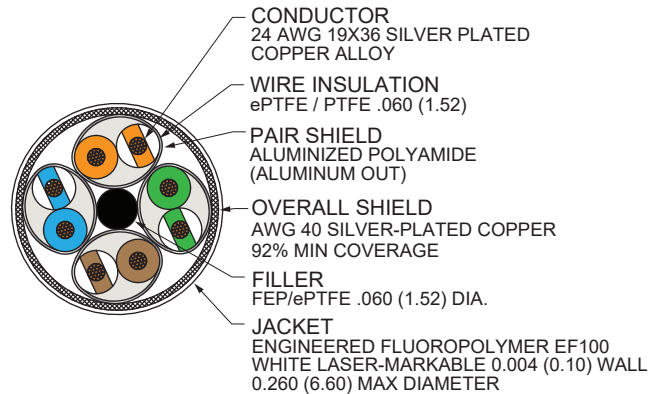
Impedance (ohms)	100 ±15	
Temperature Rating	-55° to +200°C	
Weight (lbs/100 ft.)	4.5	
Capacitance (pF/ft)	14.5	
Minimum Bend Radius (inches)	.78	
Velocity of Propagation %	70	
Dielectric Voltage Rating (kV rms)	1.5	
DC Resistance, Max (ohms/1000 ft.)	28.5	
Max Distance in Feet (m)	246 (75)	
Attenuation 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	