

RF, Microwave and Datalink Contacts

for MIL-DTL-38999, SuperNine®, Mighty Mouse and Micro-Crimp® Connectors

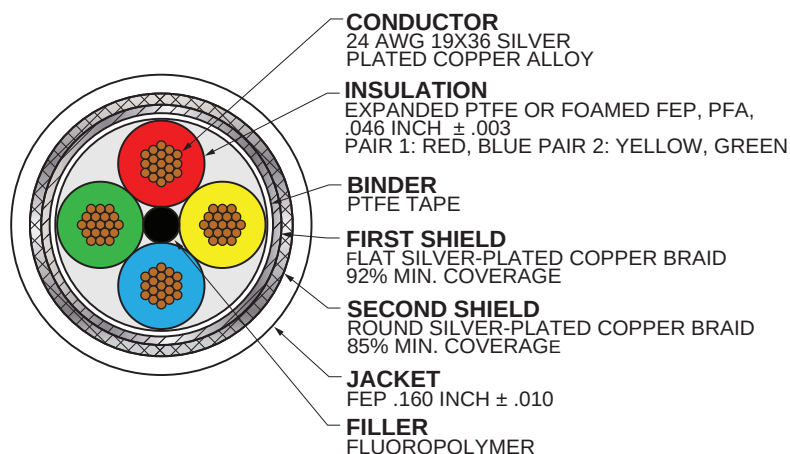


Quadrax Contacts

Aerospace-Grade Star Quad Cable

About Star Quad Cable

Star quad cables are widely used for 100 ohm ARINC 664 10/100BASE-T Ethernet and 150 ohm fibre channel. Quad cable, when paired with quadrax contacts, offers improved EMI protection and better data integrity compared to shielded twisted data pair cable terminated to individual connector pins. This illustration depicts SAE AS6070/1 high speed data quad cable. This construction, with two shields and fluoropolymer insulation, is typical of aerospace star quad cables available from Gore, Carlisle (Tensolite), PIC, TE, Draka and other cable manufacturers. The table below lists standard star quad cables available from Glenair.



Star Quad Cables Available From Glenair

Glenair Part No.	963-019	963-020	963-021	963-022	963-023	963-024
Manufacturer Part No.	NF22Q100-01	NF24Q100-01	NF26Q100-01	E50424	E51424	E51426
Manufacturer	Tensolite	Tensolite	Tensolite	PIC	PIC	PIC
Construction Details						
Conductor Size (AWG)	22	24	26	24	24	26
Conductor Material	SCC	SCCA	SCCA	SCC	SCC	SCC
Insulation	Extruded PTFE over fused PTFE tape	Extruded PTFE over fused PTFE tape	Extruded PTFE over fused PTFE tape	PTFE	Foamed FEP	Foamed FEP
Insulation Color	Pair 1: Red, Blue Pair 2: Green, Yellow	Pair 1: Red, Blue Pair 2: Green, Yellow	Pair 1: Red, Blue Pair 2: Green, Yellow	Pair 1: Red, Blue Pair 2: Green, Yellow	Pair 1: Red, Blue Pair 2: Green, Yellow	Pair 1: Red, Blue Pair 2: Green, Yellow
Binder	PTFE	PTFE	PTFE		PTFE	PTFE
Shield	Inner TCC flat braid, outer TCC round braid	Inner TCC flat braid, outer TCC round braid	Inner TCC flat braid, outer TCC round braid	Inner foil, outer SCC round braid	Inner TCC flat braid, outer TCC round braid	Inner TCC flat braid, outer TCC round braid
Jacket	FEP	FEP	FEP	FEP	ETFE	ETFE
Jacket Color	Translucent Blue	Translucent Blue	Translucent Blue	Translucent Blue	White	White
Nominal Cable Diameter	.190	.163	.137 (3.48)	.170 (4.32)	.161 (4.09)	.161 (4.09)
Specifications						
Impedance (ohms)	100	100	100	100	100	100
Temperature Rating	+150 °C	+150 °C	+150 °C	+200 °C	+150 °C	+150 °C
Weight (lbs/100 ft.)	3.4	2.45	1.8	2.6	2.2	1.8
Capacitance (pF/ft)	13	13	13	13	13	14.5
Velocity of Propagation %	80	80	80	69.5	80	70
Time Delay pS/ft	137	137	137			
Max. Attenuation dB/100 ft., 100 MHz	7.3	9.2	11.0	11.5	9.2	11.0
Min. NEXT (dB), 100 MHz	35	35	35	35.3	35.3	35.3
Min. SRL (dB), 100 MHz	16	16	16	20.1	16.0	16.0
Notes						
SCC silver-coated copper SCCA silver-coated copper alloy TCC tin-coated copper Cables are Skydrol resistant, RoHS compliant and meet the FAA flammability requirements of FAR Part 23 and 25, Appendix F						