



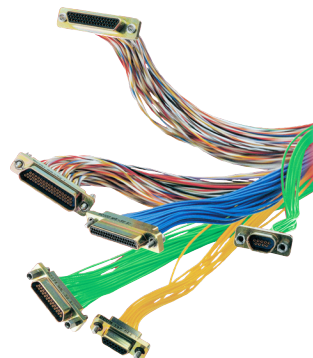
Available Stock • Fast Lead Times
Vertical In-House Manufacturing
No MOQs • Red Plague Solutions

MIL•STAR
HIGH-PERFORMANCE HOOKUP WIRE AND CABLE

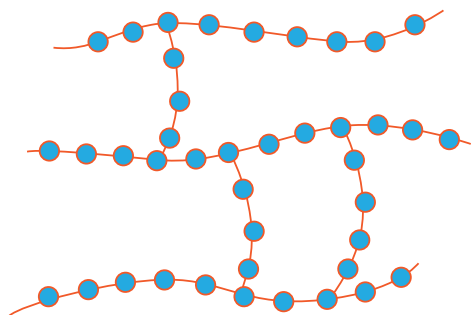
MIL-STAR High-Performance Hookup Wire and Cable Glenair has branded its GS22759 high-temperature aerospace-grade wire, and GS27500 multi-conductor cables for aerospace applications under the MIL-STAR brand. These discrete primary wires and shielded cables are built in accordance with SAE specifications with a “GS” leadoff in place of the “M” designation for individual slash sheets. Low-resistance copper cores and high-strength copper alloy conductors available with tin, silver, and nickel plating. Standard ETFE insulation as well as cross-linked XL-ETFE wires produced and stocked in quantity, in-house, and available with no MOQs.

AS22759 Slash Sheet	MIL-STAR™ Order Number	Conductor	Plating	Insulation	Insulation Weight	Available Wire Sizes	Temperature Rating
SAE AS22759/16 – 19							
M22759/16	GS22759-16	Copper	Tin	ETFE	Medium	24, 22, 20, 18, 16, 14, 12, 10, 8	150°C
M22759/17	GS22759-17	High-Strength Copper Alloy	Silver	ETFE	Medium	26, 24, 22, 20	150°C
M22759/18	GS22759-18	Copper	Tin	ETFE	Light	24, 22, 20, 18, 16, 14, 12, 10	150°C
M22759/19	GS22759-19	High-Strength Copper Alloy	Silver	ETFE	Light	26, 24, 22, 20	150°C
SAE AS22759/32 – 35							
M22759/32	GS22759-32	Copper	Tin	XL-ETFE	Light	30, 28, 26, 24, 22, 20, 18, 16, 14, 12	150°C
M22759/33	GS22759-33	High-Strength Copper Alloy	Silver	XL-ETFE	Light	30, 28, 26, 24, 22, 20	200°C
M22759/34	GS22759-34	Copper	Tin	XL-ETFE	Normal (Dual Wall)	24, 22, 20, 18, 16, 14, 12, 10, 8	150°C
M22759/35	GS22759-35	High-Strength Copper Alloy	Silver	XL-ETFE	Normal (Dual Wall)	26, 24, 22, 20	200°C
SAE AS22759/41 – 46							
M22759/41	GS22759-41	Copper	Nickel	XL-ETFE	Normal (Dual Wall)	26, 24, 22, 20, 18, 16, 14, 12, 10, 8	200°C
M22759/42	GS22759-42	High-Strength Copper Alloy	Nickel	XL-ETFE	Normal (Dual Wall)	26, 24, 22, 20	200°C
M22759/43	GS22759-43	Copper	Silver	XL-ETFE	Normal (Dual Wall)	26, 24, 22, 20, 18, 16, 14, 12, 10, 8	200°C
M22759/44	GS22759-44	Copper	Silver	XL-ETFE	Light	28, 26, 24, 22, 20, 18, 16, 14, 12	200°C
M22759/45	GS22759-45	Copper	Nickel	XL-ETFE	Light	28, 26, 24, 22, 20, 18, 16, 14, 12	200°C
M22759/46	GS22759-46	High-Strength Copper Alloy	Nickel	XL-ETFE	Light	28, 26, 24, 22, 20	200°C
SAE AS22759/51 – 54 (Low Fluoride)							
M22759/51	GS22759-51	High-strength Copper Alloy	Silver	XL-ETFE	Light	26, 24, 22, 20	200°C
M22759/52	GS22759-52	Copper	Silver	XL-ETFE	Light	26, 24, 22, 20, 18, 16, 14	200°C
M22759/53	GS22759-53	High-strength Copper Alloy	Silver	XL-ETFE	Normal (Dual Wall)	26, 24, 22, 20	200°C
M22759/54	GS22759-54	Copper	Silver	XL-ETFE	Normal (Dual Wall)	26, 24, 22, 20, 18, 16, 14	200°C

Glenair utilizes massive quantities of our own GS22759 and GS27500 wire and cable in point-to-point and complex cable assemblies. MIL-STAR wire and cable is part of a complete ecosystem of EWIS offerings from Glenair, ranging from bulk wire and cable to terminated, shielded, and overmolded assemblies built with Glenair signature connectors and accessories. From our signature 'Better-than-QPL' SuperNine connectors to Micro-Ds, Mighty Mouse, HiPer-D, Series 79 and others—MIL-STAR wire and cable is employed by Glenair in the delivery of value-added aerospace-grade interconnect assemblies with industry-leading speed-of-delivery.

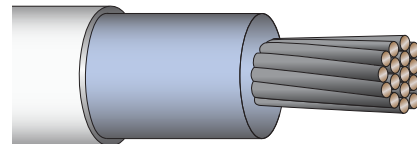


CROSS-LINKED ETFE INSULATION



Cross-linked insulation (XL) and standard insulation are two types of dielectric materials used in wire and cable manufacturing. Here are the advantages of using cross-linked ETFE insulation (XL-ETFE) over standard ETFE insulation in M22759 wiring:

- Improved thermal stability
- Resistance to chemicals and solvents
- Increased mechanical strength
- Laser-markable
- Longer service life



Cross-linked Ethylene tetrafluoroethylene (XL-ETFE)

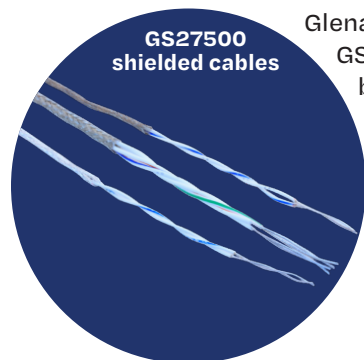
RED PLAGUE MITIGATION: 80 µin SILVER PLATING

Glenair MIL-STAR™ high-temperature hookup wire and cable may be supplied in special 80 microinch silver-plated copper Mod Code configurations (1304A or 1304B) to combat Red Plague corrosion. Red Plague is a type of copper corrosion which results in the formation of red cuprous oxide (Cu_2O) and black cupric oxide (CuO). In the presence of oxygen, Red Plague corrosion can continue indefinitely, consuming conductor material and causing electrical system failures.



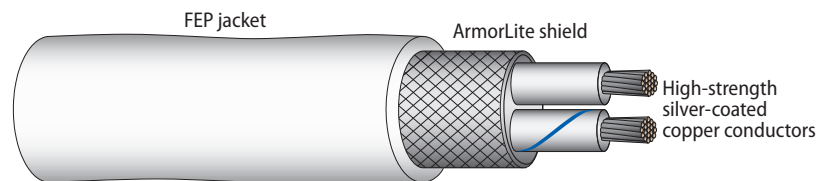
Red Plague corrosion (courtesy NASA)

TURNKEY M27500-TYPE CABLES WITH GLENAIR SIGNATURE LIGHTWEIGHT SHIELDING



GS27500 shielded cables

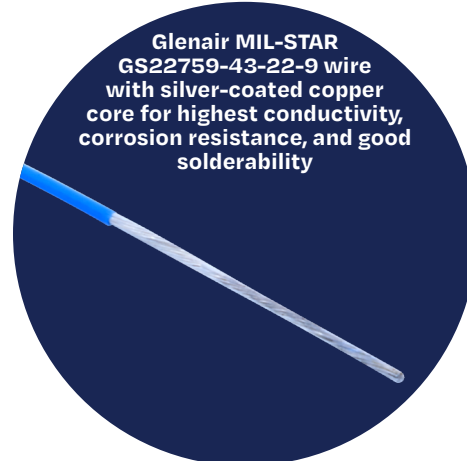
Glenair MIL-STAR multi-conductor 27500 type cables are built from in-house manufactured GS22759 hookup wire. MIL-STAR GS27500 cables may be specified with Glenair signature braided shielding including ArmorLite, ArmorLite CF, and AmberStrand. The ability to supply 27500 type cable in accordance with the ANSI/NEMA standard but optimized for SWaP with lighter weight shielding materials is a unique Glenair signature capability.



Cross-linked Ethylene tetrafluoroethylene (XL-ETFE)

MIL-STAR™ WIRE AND CABLE PLATING PERFORMANCE

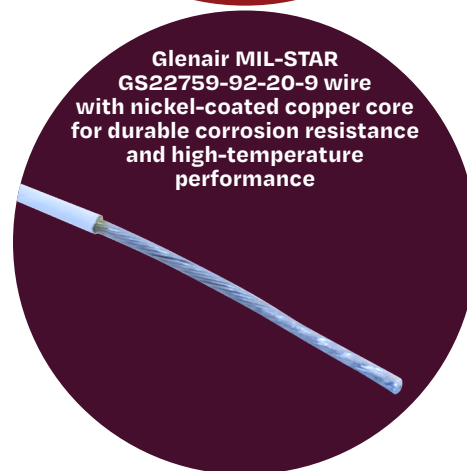
Glenair MIL-STAR GS22759-43-22-9 wire with silver-coated copper core for highest conductivity, corrosion resistance, and good solderability



Glenair MIL-STAR GS22759-16-8-9 wire with tin-coated copper core for enhanced solderability and reliable, cost-effective performance



Glenair MIL-STAR GS22759-92-20-9 wire with nickel-coated copper core for durable corrosion resistance and high-temperature performance



Available copper cores for low resistance, and copper alloy for high strength