Micro-D GSWM **SpaceWire Cable Assembly** in Back-to-Back or Single Ended Wire Configurations





Single-Ended or Double-Ended–These easy-to-order cable assemblies eliminate the need for expensive assembly labor. 100% tested and ready for use.

High Performance Insulation–Expanded polytetrafluoroethylene (EPTFE) allows for the support of LVDS technology to significantly reduce data loss while allowing for the implementation of standard hardware protocols, thus eliminating the need for design customizations while reducing costs.

Cost Saving, Easy Integration and High-Performance for Flight and Lab Grade Data Transmission.

The success of any space mission begins with reliable data transmission and Glenair SpaceWire cables, built to meet the strict standards set forth by ECSS-E-ST-50-12C Rev. 1, make this a reality. Our SpaceWire cables offer bidirectional, high speed data transmission rates up to 400 Mbits/s while significantly reducing cross talk, skew, and signal attenuation. By incorporating a serial, point-to-point cable, with low voltage differential signaling (LVDS) reduced costs are realized through an easily integrated data transmission cable. These features allow SpaceWire cables to be incorporated across various satellite programs without the expense of costly design customization.

How To Order SpaceWire Cable Assembly													
Sample Part Number		GSWM	2	L	-9	GP	-6	F	В	-16	S	-A	G
Product Series	GSWM Glenair SpaceWire Micro-D												
Shell Plating	2 - Electroless Nickel 5 - Gold												
Insulator Material	L-LCP												
Shell Size	9												
Connector Type	P - Single-Ended Pin (Plug) S - Single-Ended Socket (Receptacle) GP - Pin (Plug) Connector Both Ends GS - Socket (Receptacle) Both Ends												
Wire Gauge	6 - 26 AWG 8 - 28 AWG 0 - 30 AWG (30 AWG–Lab Only)												
Cable Type	F - Flight Grade L - Lab Grade												
Termination Option	B - Backshell												
Cable Length In Inches	16 - 16 inches (12 inches minimum)												
Hardware	S - Male Slotted Jackscrew P - Female Jackpost												
Wiring Schedule Type	-A - as per ECSS-E-ST-50-12C Rev 1 figure 5-4 -AL - as per ECSS-E-ST-50-12C Rev 1 figure 5-5												
Ground Spring Option	N - No Ground Spring G - Ground Spring Installed												

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High Performance Micro-D Connectors and Cables

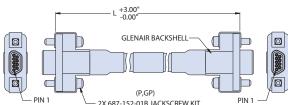
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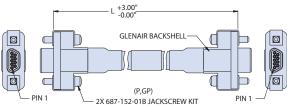
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BACK TO BACK WIRING

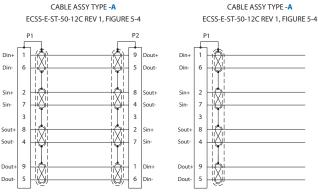
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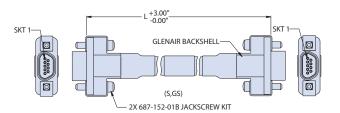


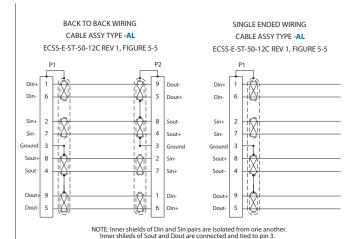
2X 687-152-01B JACKSCREW KIT

SINGLE ENDED WIRING



NOTE: Inner shields are tied to one another and connector shell.





Notes:

- 1. Flight grade (cable Type F) assemblies to be screened IAW NASA EEE-INST-002, Table 2. Level 1 with 100% thermal vacuum outgassing (24 hours/+125°C/10⁻⁶ torr). Reference Glenair Mod Code 429C.
- 2. Operating temperature -55°C to +125°C.
- 3. Electrical performance: Dielectric withstanding voltage: 600 VAC. Insulation resistance: 5000 megohms @500 VDC.
- 4. Assembly to be identified with Glenair's name, Part Number, Cage Code and Date Code.

Materials/finish:

- Shells/backshells aluminum alloy/electroless nickel.
- Insulators high grade rigid dielectric/N.A.
- Contacts copper alloy, gold plated.
- Hardware stainless steel/passivated.

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