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, 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**

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>GSWM</th>
<th>2</th>
<th>L</th>
<th>-9</th>
<th>GP</th>
<th>-6</th>
<th>F</th>
<th>B</th>
<th>-16</th>
<th>S</th>
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<tbody>
<tr>
<td>Product Series</td>
<td>GSWM Glenair SpaceWire Micro-D</td>
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<tr>
<td>Shell Plating</td>
<td>2 - Electroless Nickel</td>
<td>5 - Gold</td>
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<tr>
<td>Insulator Material</td>
<td>L - LCP</td>
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<td>Shell Size</td>
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<tr>
<td>Connector Type</td>
<td>P - Single Ended Pin (Plug)</td>
<td>GP - Pin (Plug) Connector Both Ends</td>
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<tr>
<td>Wire Gauge</td>
<td>6 - 26 AWG</td>
<td>8 - 28 AWG</td>
<td>0 - 30 AWG (30 AWG–Lab Only)</td>
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<tr>
<td>Cable Type</td>
<td>F - Flight Grade</td>
<td>L - Lab Grade</td>
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<tr>
<td>Termination Option</td>
<td>B - Backshell</td>
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<td>Cable Length In Inches</td>
<td>16 - 16 inches (12 inches minimum)</td>
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<tr>
<td>Hardware</td>
<td>S - Male Slotted Jackscrew</td>
<td>P - Female Jackpost</td>
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Back To Back Wiring
Diagram (GP)

Single Ended Wiring
Diagram (P)

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.
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 or ESCC Component Part Marking Standards.

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

Glenair Backshell
Jackscrew Hardware