SWF Type Shipboard Cable
rubber watertight shielded instrumentation cable / 22 AWG / multipairs MIL-DTL-915/47 & 48

Applications
Shielded Instrumentation MIL-SPEC cables were created specifically for military usage. Their watertight flexible construction makes them ideal for underwater use in submerged hydrophone arrays and for other underwater instruments. Individually shielded pairs resist electromagnetic interference (EMI). A jacket made from arctic polychloroprene helps hold their low-temperature performance and flexibility.

These instrumentation cables meet MIL-DTL-915/48 & 49 specifications. They pass the hydrostatic leakage test (open end, 1000 PSI for 6 hours), survive -54°C cold-working and have excellent termination molding characteristics.

Features
- Watertight
- Flexible at low temperatures
- Excellent termination molding compatibility

Availability
- Shielded hydrophone Type SWF cables are available through Draka authorized distributors.

Rating
- MIL-DTL-915/47 & MIL-DTL-915/48

General Data
Voltage withstand:
- conductor/conductor 2000 volts RMS
- conductor/shield 1000 volts RMS
- shield/water 500 volts RMS
- Capacitance maximum at 1 MHz - 30 pf/foot
- Characteristic impedance at 1 MHz - 75 + 5 ohms
- Attenuation maximum at 3 MHz - 3 dB/1000 feet
- Passes hydrostatic leakage test (open end) - 1000 psi/6 hours

Construction
CONDUCTORS: Seven-strand (Navy Strand) blocked tinned copper.
INSULATION: Black and white polyethylene with a clear polyamide jacket.
CONDUCTOR JACKET: Clear polyester/polyamide jacket.
PAIR SHIELD: Each pair has a braidied tinned copper shield.
PAIR JACKET: Polyester/polyamide jacket.
CABLING: Shielding pairs are cabled together with DPR waterblocking and wrapped in a synthetic binder tape.
JACKET: Extruded arctic polychloroprene.
SURFACE MARKINGS As specified per MIL standards.
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<table>
<thead>
<tr>
<th>Part Number</th>
<th>Cable Type and Size</th>
<th>Conductor Number</th>
<th>Conductor Area  (mms²)</th>
<th>Conductor Diameter  (cm)</th>
<th>Max. Conductor resistance ohms/1000’</th>
<th>Cable O.D. min/max (in)</th>
<th>Minimum Bend Radius  (mm)</th>
<th>Cable Weight in air / in water Lbs/Mft (Kg/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>009461</td>
<td>1SWF-2</td>
<td>1 pair</td>
<td>22 AWG</td>
<td>0.031 (0.84)</td>
<td>17.03</td>
<td>.600 (15.2) / .625 (15.9)</td>
<td>3.6 (91)</td>
<td>190 (283) / 60 (89)</td>
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<tr>
<td>009458</td>
<td>2SWF-3</td>
<td>3 pair</td>
<td>22 AWG</td>
<td>0.031 (0.84)</td>
<td>17.71</td>
<td>.600 (15.2) / .625 (15.3)</td>
<td>3.6 (91)</td>
<td>205 (305) / 75 (117)</td>
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<td>009459</td>
<td>2SWF-4</td>
<td>4 pair</td>
<td>22 AWG</td>
<td>0.031 (0.84)</td>
<td>17.71</td>
<td>.600 (15.2) / .625 (15.3)</td>
<td>3.6 (91)</td>
<td>210 (312) / 80 (119)</td>
</tr>
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<td>009460</td>
<td>2SWF-7</td>
<td>7 pair</td>
<td>22 AWG</td>
<td>0.031 (0.84)</td>
<td>17.71</td>
<td>.780 (19.8) / .815 (20.7)</td>
<td>4.7 (119)</td>
<td>355 (528) / 140 (208)</td>
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<tr>
<td>016182</td>
<td>2SWF-24</td>
<td>24 pair</td>
<td>22 AWG</td>
<td>0.031 (0.84)</td>
<td>17.71</td>
<td>1.190 (30.9) / 1.250 (31.7)</td>
<td>71 (185)</td>
<td>997 (1483) / 470 (699)</td>
</tr>
</tbody>
</table>

The data herein is approximate and subject to normal manufacturing tolerances. These military specifications are subject to change without notice.