

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 braided 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.

Prysmian Group

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Sales and Distribution:

22 Joseph E. Warner Blvd. | North Dighton, MA 02764 | +1-508-822-5444 | www.drakausa.com
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Part Number	Cable Type and Size	Conductor Number	Conductor Size	Conductor Area mils ² (mms ²)	Conductor Diameter in (cm)	Max. Conductor resistance ohms/1000'	Cable O.D. min/max in (mm)	Minimum Bend Radius in (mm)	Cable Weight in air /in water Lbs/Mft (Kg/Km)
009461	1SWF-2	1 pair	22 AWG	700 (0.35)	0.031 (0.84)	17.03	.600 (15.2) / .625 (15.9)	3.6 (91)	190 (283) / 60 (89)
009458	2SWF-3	3 pair	22 AWG	700 (0.35)	0.031 (0.84)	17.71	.600 (15.2) / .625 (15.9)	3.6 (91)	205 (305) / 75 (117)
009459	2SWF-4	4 pair	22 AWG	700 (0.35)	0.031 (0.84)	17.71	.600 (15.2) / .625 (15.9)	3.6 (91)	210 (312) / 80 (119)
009460	2SWF-7	7 pair	22 AWG	700 (0.35)	0.031 (0.84)	17.71	.780 (19.8) / .815 (20.7)	4.7 (119)	355 (528) / 140 (208)
016182	2SWF-24	24 pair	22 AWG	700 (0.35)	0.031 (0.84)	17.71	1.190 (30.9) / 1.250 (31.7)	7.1 (185)	997 (1483) / 470 (699)

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

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