

# Underwater Multi-Conductor Cables



**POLYURETHANE JACKETED UNDERWATER CABLE**  
**-20°C to 85°C, 600V**  
 (Insulation -20°C to 105/125°C)

**CONDUCTORS:**

Tinned copper for improved corrosion protection and high strand counts for flexibility.

**INSULATION:**

Premium grade, moisture resistant polymer. Good heat resistance for soldering and heat molding terminations. Minimum temperature rating of 105°C. Some constructions to 125°C rating.

**SHIELDS:**

Optional shields may be ordered with an overall light weight aluminum/mylar 100% coverage or braided tin copper 85% min coverage.

\*Some constructions are stocked standard with aluminum mylar shields.

**WATER BLOCK:**

Flexible, clean stripping, pressure resistant elastomer filled-in interstices.

**FEATURES:**

Rugged multiconductor cables are designed for:

- Continuous underwater use in freshwater or seawater

Falmat's "Xtreme" grade polyurethane jacket:

- Improves abrasion and cut through resistance
- Premium-grade polymer insulation with low moisture absorption characteristics
- Pressure resistant waterblocked core
- Provides a solid cable for various marine applications.

**JACKETS:**

Falmat's "Xtreme"-grade polyurethane features high abrasion and cut through resistance, 90°C rated, and wall thickness ranging .065"-.095".

\* Optional Neoprene rubber may be ordered.

FALMAT P/N	NO.# COND.	JKT. WALL NOM.	NOMINAL O.D.	NOMINAL WEIGHT
<b>24AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>
FM091003-2402	2	.060	.226	5.74
FM091003-2403	3	.065	.236	5.99
FM091003-2404	4	.065	.247	6.27
FM091003-2406	6	.068	.273	6.93
FM091003-2408	8	.068	.290	7.36
FM091003-2412	12	.068	.322	8.18
FM091003-2419	19	.072	.374	9.50
FM091003-2424	24	.072	.403	10.23
<b>22AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>
FM091003-2202	2	.065	.250	6.35
FM091003-2203	3	.070	.290	7.30
FM091003-2204	4	.070	.318	8.08
FM091003-2206	6	.070	.330	8.38
FM091003-2208	8	.072	.366	9.30
FM091003-2212	12	.075	.385	9.78
FM091003-2219	19	.080	.486	12.34
FM091003-2224	24	.080	.526	13.36
<b>20AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>
FM091003-2002	2	.070	.295	7.49
FM091003-2003	3	.070	.318	8.08
FM091003-2004	4	.075	.350	8.90
FM091003-2006	6	.075	.370	9.40
FM091003-2007	7	.075	.370	9.40
FM091003-2010	10	.075	.440	11.17
FM091003-2012	12	.080	.465	11.81
FM091003-2019	19	.080	.536	13.61
FM091003-2024	24	.075	.610	15.49

See reverse side for listing of additional cable constructions.



## Underwater Multi-Conductor Cables

FALMAT P/N	NO.# COND.	JKT. WALL NOM.	NOMINAL O.D.		NOMINAL WEIGHT
<b>18AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>	<b>lb./1000 ft.</b>
FM091003-1802	2	.070	.316	8.03	30
FM091003-1803	3	.070	.332	8.43	41
FM091003-1804	4	.080	.385	9.78	58
FM091003-1806	6	.075	.410	10.41	93
FM091003-1808	7	.075	.438	11.12	100
FM091003-1812	12	.082	.512	13.00	150
FM091003-1819	19	.085	.606	15.39	234
FM091003-1824	24	.085	.660	16.76	320
<b>16AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>	<b>lb./1000 ft.</b>
FM091003-1602	2	.070	.365	9.27	42
FM091003-1603	3	.075	.370	9.40	57
FM091003-1604	4	.075	.405	10.29	85
FM091003-1606	6	.075	.430	10.92	110
FM091003-1608	8	.080	.500	12.70	160
FM091003-1612	12	.080	.572	14.53	190
FM091003-1619	19	.082	.680	17.27	290
FM091003-1624	24	.082	.740	18.79	350
<b>14AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>	<b>lb./1000 ft.</b>
FM091003-1402	2	.072	.375	9.52	89
FM091003-1403	3	.075	.400	10.16	115
FM091003-1404	4	.080	.490	12.44	165
FM091003-1406	6	.085	.500	12.70	190
FM091003-1408	8	.085	.530	13.46	322
FM091003-1412	12	.085	.620	15.75	490
<b>12AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>	<b>lb./1000 ft.</b>
FM091003-1202	2	.075	.410	10.41	105
FM091003-1203	3	.085	.460	11.68	155
FM091003-1204	4	.085	.490	12.44	210
FM091003-1206	6	.085	.560	14.22	310
FM091003-1208	8	.090	.615	15.62	380
FM091003-1212	12	.090	.712	18.08	431
<b>10AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>	<b>lb./1000 ft.</b>
FM091003-1002	2	.080	.525	13.33	166
FM091003-1003	3	.085	.565	14.35	212
FM091003-1004	4	.085	.615	15.62	275
FM091003-1006	6	.085	.710	18.03	370
FM091003-1008	8	.090	.775	19.68	468
FM091003-1010	10	.090	.850	21.59	576
<b>8AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>	<b>lb./1000 ft.</b>
FM091003-0802	2	.085	.690	17.52	252
FM091003-0803	3	.085	.742	18.84	336
FM091003-0804	4	.090	.816	20.72	410
<b>6AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>	<b>lb./1000 ft.</b>
FM091003-0602	2	.090	.860	21.84	354
FM091003-0603	3	.090	.923	23.44	478
FM091003-0604	4	.095	1.02	25.90	616
<b>4AWG</b>		<b>inch</b>	<b>inch</b>	<b>mm</b>	<b>lb./1000 ft.</b>
FM091003-0402	2	.090	.962	24.43	520
FM091003-0403	3	.095	1.04	26.41	715
FM091003-0404	4	.095	1.14	28.95	910

\* This table represents standard conductor counts. Please consult with a Falmat salesperson for additional cable constructions.



1873 DIAMOND STREET    SAN MARCOS, CA 92069    U.S.A.  
TEL: (760) 471-5400    (800) 848-4257    FAX: (760) 471-4970    WEB: WWW.FALMAT.COM