

Standard Bridge Submarine Cable

XLPE insulation / 22 AWG to 1000 KCMIL / Dual-HDPE jackets / 600 and 2000 volt



Application

These are multiconductor 600- and 2000-volt cables designed for underwater usage and to meet all requirements for use on bascule, lift and swing-bridges as well as direct burial. They are produced to meet your specific combinations of power, control and signal circuits (including fiber optic components) of up to 125 conductors and up to 5 inches (12.7 cm) in diameter. Empty conduit may also be cabled in as an integral part of the cable.

These cables have evolved over our long relationship with architectural/engineering firms and U.S. Departments of Transportation (DOT). They are designed to perform flawlessly under the harshest of conditions.

The features listed below are standard items; they may be modified per your request and need. Please contact Prysmian for details.

Specifications and Ratings

- ICEA S-95-658, NEMA WC-70
- ICEA S-73-532, NEMA WC-57
- BIW Specifying Standard SC-02

Design Parameters

CONDUCTOR: Annealed uncoated copper to meet ASTM B-3, stranded to meet ASTM B-8, class B stranding, and ICEA S-95-658, NEMA WC-70.

INSULATION: Cross-linked polyethylene (XLPE) meeting ICEA S-95-658, NEMA WC-70. The insulation meets accelerated water absorption per Electrical Method EM-60. Insulation thickness for 600V and 2000V shall comply with ICEA standards.

CIRCUIT IDENTIFICATION: Surface-printed legend with number/color (1-BLACK, 2-WHITE, 3-RED, etc.) per ICEA S-73-532, NEMA WC-57-1990, Appendix E, Method 4.

ASSEMBLY: Cable components are cabled together with polypropylene as required by the application. The cabled core is wrapped with a moisture-resistant binder tape. Lay length and directions conform to ICEA S-95-658, NEMA WC70.

INNER JACKET: Weather- and UV-resistant high-density polyethylene (HDPE) per ICEA S-95-658, NEMA WC-70. Jacket thickness varies per cable diameter; see chart on back.

ARMOR WIRE: Galvanized steel wire coated with HDPE per ICEA S-95-658, NEMA WC-70. Coating thickness is shown on back.

OUTER JACKET: Weather- and UV-resistant high density polyethylene (HDPE) per ICEA S-95-658, NEMA WC-70. Jacket thickness varies per cable diameter; see chart on back.

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Calculated Cable Diameter Under Jacket in (mm)	Inner Jacket Thickness in (mm)	Armor Wire Size BWG in (mm)	Armor Wire Coating in (mm)	Outer Jacket Thickness in (mm)
0 to 0.425 (10.8)	.045 (1.1)	12 .109 (2.8)	.020 (0.51)	.045 (1.1)
0.426 (10.8) to 0.700 (17.8)	.060 (1.5)	10 .134 (3.4)	.025 (0.64)	.060 (1.5)
0.701 (17.8) to 1.500 (38.1)	.080 (2.0)	8 .165 (4.2)	.030 (0.76)	.080 (2.0)
1.501 (38.1) to 2.500 (63.5)	.110 (2.8)	6 .203 (5.2)	.035 (0.89)	.110 (2.8)
2.501 (63.5) and Larger	.140 (3.6)	4 .238 (6.0)	.040 (1.02)	.140 (3.6)

The data herein is approximate and subject to normal manufacturing tolerances.
Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

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