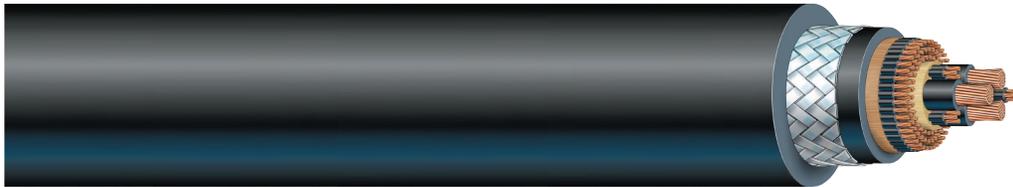


## Ruggedized Submarine Cable

stainless steel braid armor / dual HDPE jackets / 22 AWG to 1000 KCMIL / 600 volt



### Applications

These are ruggedized multi-conductor 600 volt signal cables designed for underwater usage and meet all requirements for use on bascule, lift and swing-bridges as well as direct burial. They are produced to meet your specific combination 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 the US 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 for details.

### Specifications and Ratings

- ICEA S-95-658, NEMA WC70

### 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 WC70.

**INSULATION:** Crosslinked polyethylene (XLPE) meeting ICEA S-95-658, NEMA WC70. The insulation meets accelerated water absorption per Electrical Method EM-60. Insulation thickness varies per conductor size; 22 - 16 AWG is 25 mils, 14 - 9 AWG is 30 mils, 8 - 2 AWG is 45 mils, 1 - 4/0 AWG is 55 mils, 225 - 500 KCMIL is 65 mils and 525 - 1000 KCMIL is 80 mils.

**CIRCUIT IDENTIFICATION:** Neutral colored conductors with number/color print: (1-BLACK, 2-WHITE, 3-RED, etc.) per ICEA S-73-532, NEMA WC57-1990, Method 3 and Table E-5 or E-1 as required.

**ASSEMBLY:** Cable components are cabled together with non-hydrosopic fillers 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 WC70. Jacket thickness varies per cable diameter; see chart on back.

**ARMOR WIRE:** Annealed 28 AWG stainless steel #304 wire; see chart on back.

**OUTER JACKET:** Weather and UV-resistant high density polyethylene (HDPE) per ICEA S-95-658, NEMA WC70. Jacket thickness varies per cable diameter; see chart on back.

### Prysmian Group

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### Sales and Distribution:

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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)
up to .425 (10.8)	.045 (1.1)	12 .109 (2.8)	.020 (0.51)	.045 (1.1)
up to .700 (17.8)	.060 (1.5)	10 .134 (3.4)	.025 (0.64)	.060 (1.5)
up to 1.50 (38.1)	.080 (2.0)	8 .165 (4.2)	.030 (0.76)	.080 (2.0)
up to 2.50 (63.5)	.110 (2.8)	6 .203 (5.2)	.035 (0.89)	.110 (2.8)
up to 5.00 (127)	.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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