

Bridge Aerial Cable

Steel messenger and binder support / XLPE insulation / 22 AWG to 1000 KCMIL LDPE jackets / 600 & 2000 volt



Applications

These are multiconductor 600- and 2000-volt cables designed for unsupported aerial usage between structures. They meet all requirements for use on bascule, lift and swing bridges as well as direct burial. They are produced to meet 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 a wide variety of end users and specifiers, including local Departments of Transportation (DOTs), architects, engineers and contractors. 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. All of these cables are designed to meet specific application requirements. Please contact Prysmian for details.

Specifications and Ratings

- ICEA S-95-658, NEMA WC-70
- ICEA S-73-532, NEMA WC-57
- Prysmian Specifying Standard SC-04

Design Parameters

CONDUCTOR: Annealed uncoated copper in accordance with ASTM B-172/174 for 10 AWG and smaller or ASTM B-172 for 9 AWG or larger, class K stranding, and section 2 of ICEA S-95-658.

INSULATION: Ethylene propylene rubber (EPR) meeting the Type II requirements of ICEA S-73-532, NEMA WC-57 Table 3-2 (22 to 16 AWG), 600 volt or ICEA S-95-658, NEMA WC-70, Table 3-1 (14 AWG or larger, 600 to 2,000 volt).

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

ASSEMBLY: Cable components are cabled together with non-hygroscopic fillers as required by the application. The cabled core is wrapped with a moisture-resistant binder tape. Maximum lay length shall be 12x O.D.

CABLE JACKET REINFORCEMENT: Two layers of Kevlar® aramid fibers applied helically in reverse directions under the jacket.

OUTER JACKET: Arctic, heavy-duty and UV-resistant low density polyethylene (LDPE) per ICEA S-95-658, NEMA WC-70. Typical jacket thickness varies per cable diameter; see chart on back.

CABLE SUPPORT: Stainless steel type 302 or 304 wire messenger.

SUPPORT BINDER: Stainless steel Type 302 tape helically wound around cable and messenger.

IDENTIFICATION: As requested.

PRYSMIAN NORTH AMERICA

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Calculated Cable Diameter Under Jacket in (mm)	Outer Jacket Thickness in (mm)
up to .425 (10.8)	.045 (1.1)
up to .700 (17.8)	.060 (1.5)
up to 1.50 (38.1)	.080 (2.0)
up to 2.50 (63.5)	.110 (2.8)
up to 5.00 (127)	.140 (3.6)

Information is subject to change without notice.
Bridge aerial cables are custom manufactured to meet your specific application.
Call Prysmian with your requirements for a quote.

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