

Bridge Traveling (Droop) Cable

rubber jacket / multiconductor / 22 AWG to 1000 KCMIL / rubber insulation
600 and 2000 volt



Applications

These are multi-conductor 600 and 2000 volt cables designed for flexing usage and meet all requirements for use on bascule, lift and swing-bridges. They are produced to meet 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 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 Draka for details.

Specifications and Ratings

- ICEA S-73-532, NEMA WC-57
- ICEA S-95-658, NEMA WC-70
- Draka Specifying Standard SC-06

Design Parameters

CENTRAL STRENGTH MEMBER: Flexible preformed Type 302 or 304 stainless steel aircraft cable.

CONDUCTOR: Annealed uncoated copper in accordance with ASTM B-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. Optical fibers are also available.

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 WC70, Table 3-1 (14 AWG or larger, 600 to 2000 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.

INNER JACKET: Arctic, heavy duty and UV-resistant Neoprene® polychloroprene rubber per ICEA S-95-658, NEMA WC-70.

CABLE JACKET REINFORCEMENT: Two layers of Kevlar® aramid fibers applied helically in reverse directions between the two jackets.

OUTER JACKET: Arctic, heavy duty and UV-resistant Neoprene® polychloroprene rubber per ICEA S-95-658, NEMA WC-70. Total jacket thickness is shown in table on back.

IDENTIFICATION: Outer jacket can be marked with identifying information including construction, contract, manufacture date/location and sequential length.

Prysmian Group

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Calculated Cable Diameter Under Jacket in (mm)	Outer Jacket Thickness in (mm)
up to .325 (8.3)	.060 (1.5)
up to .430 (10.9)	.080 (2.0)
up to .540 (13.7)	.095 (2.4)
up to .640 (16.3)	.110 (2.8)
up to .740 (18.8)	.125 (3.2)
up to .850 (21.6)	.140 (3.6)
up to 1.00 (25.4)	.155 (3.9)
up to 1.32 (33.5)	.170 (4.3)
up to 1.55 (39.4)	.190 (4.8)
up to 1.82 (46.2)	.205 (5.2)
up to 2.05 (52.1)	.220 (5.6)
up to 2.30 (58.4)	.235 (6.0)
up to 2.55 (64.8)	.250 (6.4)
up to 2.80 (71.1)	.265 (6.7)
up to 3.10 (78.7)	.280 (7.1)
up to 3.10 (78.7)	.280 (7.1)
up to 3.50 (88.9)	.295 (7.4)
up to 3.95 (100)	.310 (7.9)
up to 4.45 (113)	.330 (8.4)
up to 5.00 (127)	.345 (8.8)

Information is subject to change without notice.

Bridge traveling cables are custom manufactured to meet your specific application.

Call Draka with your requirements for a quotation.

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