



## SkyWrap®

Successfully installed worldwide since 1982, SkyWrap is a fiber optic cable helically applied on ground wires or phase conductors. A specially designed spinning machine is used to wrap the cable under controlled conditions. This system offers a complete communication link designed and engineered for high-voltage environments at low cost.

SkyWrap is the ideal solution when access to the overhead line is problematic due to environment or terrain. The installation equipment is lightweight, easy to handle and quick to install. When power outages are hard to coordinate SkyWrap can be installed on ground wire while the phase conductors remain live, or on phase conductors with single circuit outage.

### Temperature Range

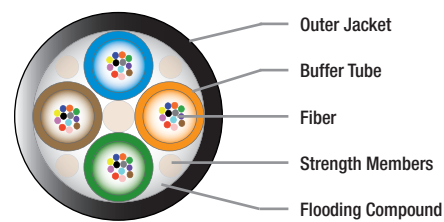
|               |                |
|---------------|----------------|
| Operating:    | -40°C to +85°C |
| Store:        | -40°C to +50°C |
| Installation: | -20°C to +50°C |

### Benefits

- Quick, cost effective installation
- Utilize existing power line infrastructure
- Use where access is limited (e.g. mountains and river crossings)
- Use for both ground wires and phase conductors
- Live line installations on ground wire or single circuit outage on phase
- Complete lifetime turn-key solutions
- Over 30 years installation experience



### Cable Components

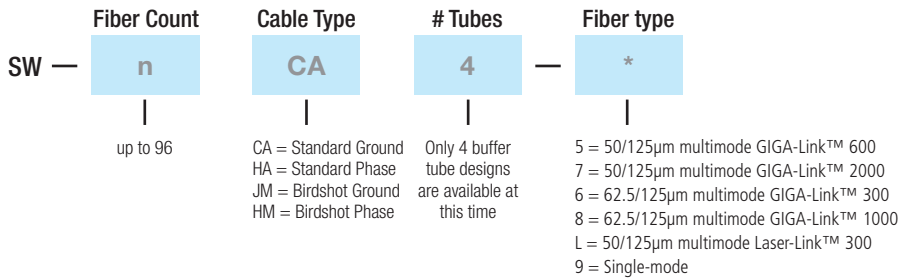


### Cable Features

- Designed for ground wires or phase conductors
- Zero fiber strain under all service conditions
- Up to 96 fibers per cable with 4 gel-filled tubes
- Double SkyWrap installations provides 192 fiber capacity
- SkyWrap can be installed on OPGW to increase existing fiber count
- Shotgun (birdshot) resistant jacket designs for tougher environments
- Small size and low weight ensures minimum loads on overhead lines
- All-dielectric construction provides immunity from electromagnetic interference
- Complies with IEEE 1594-2008 specification

## SkyWrap®

### Part Number



### SkyWrap Ordering Information - Technical Figures as of 11 June 2014

| ITEM NUMBER                               | FIBER COUNT | CABLE O.D.<br>INCHES (mm) | WEIGHT<br>LBS/MILE (kg/km) | LENGTH PER REEL<br>FEET (m) | CASSETTE LENGTH<br>FEET (m) |
|---|-------------|---------------------------|----------------------------|-----------------------------|-----------------------------|
| <b>STANDARD GROUND WIRE</b>               |             |                           |                            |                             |                             |
| SW-nCA4-★                                 | 04 - 24     | 0.252 (6.4)               | 128 (36)                   | 8,005 (2,440)               | 16,010 (4,880)              |
| SW-nCA4-★                                 | 26 - 48     | 0.260 (6.6)               | 138 (39)                   | 7,530 (2,295)               | 15,059 (4,590)              |
| SW-nCA4-★                                 | 50 - 96     | 0.315 (8.0)               | 209 (59)                   | 5,125 (1,562)               | 10,249 (3,124)              |
| <b>BIRDSHOT RESISTANT GROUND WIRE</b>     |             |                           |                            |                             |                             |
| SW-nJM4-★                                 | 04 - 24     | 0.287 (7.3)               | 163 (46)                   | 5,991 (1,826)               | 11,982 (3,652)              |
| SW-nJM4-★                                 | 26 - 48     | 0.295 (7.5)               | 177 (50)                   | 5,676 (1,730)               | 11,352 (3,460)              |
| SW-nJM4-★                                 | 50 - 96     | 0.350 (8.9)               | 252 (71)                   | 4,029 (1,228)               | 8,058 (2,456)               |
| <b>STANDARD PHASE CONDUCTOR</b>           |             |                           |                            |                             |                             |
| SW-nHA4-★                                 | 04 - 24     | 0.287 (7.3)               | 195 (55)                   | 6,280 (1,914)               | 12,559 (3,828)              |
| SW-nHA4-★                                 | 26 - 48     | 0.295 (7.5)               | 209 (59)                   | 5,948 (1,813)               | 11,896 (3,626)              |
| SW-nHA4-★                                 | 50 - 96     | 0.350 (8.9)               | 291 (82)                   | 4,226 (1,288)               | 8,451 (2,576)               |
| <b>BIRDSHOT RESISTANT PHASE CONDUCTOR</b> |             |                           |                            |                             |                             |
| SW-nHM4-★                                 | 04 - 24     | 0.315 (8.0)               | 216 (61)                   | 5,230 (1,594)               | 10,459 (3,188)              |
| SW-nHM4-★                                 | 26 - 48     | 0.323 (8.2)               | 231 (65)                   | 4,977 (1,517)               | 9,954 (3,034)               |
| SW-nHM4-★                                 | 50 - 96     | 0.378 (9.6)               | 316 (89)                   | 3,632 (1,107)               | 7,264 (2,214)               |

Note: Diameter and weight subject to change without notice

### Installation equipment information

| PARAMETER  | VALUE                           |
|--|---------------------------------|
| Typical Weight (includes cable and balance weight) | 550 lbs (250kg)                 |
| Min-Max Radius of rotation                         | 2.85-4.76 ft (0.87-1.45m)       |
| Wrapping Speed                                     | 3 miles per hour (5km per hour) |

### Installation Hardware

A full range of hardware and accessories are available as part of the SkyWrap solution. Many different options are available to suit individual structure types and environmental conditions. Please contact AFL for more information.