



The Cableopt™ package by Optinova is the all-in-one solution for the global electronics and cable industry. Wherever a cable manufacturer needs fluoropolymer products for their application, Optinova can supply the desired product from one source only.

- Different conductor types
- Unique range of insulated wires
- PTFE Dielectric Coaxial Core
- Spiral cut tubing for bundles
- Fluoropolymer and dual heat shrink solutions
- PTFE UL-AWG tubing
- Fluoropolymer tubes, rods, and monofilaments

# Cableopt™

## Wire & Cable Solutions

Optinova can produce virtually any fluoropolymer tubing and customized profiles as well as filled PTFE Heavy Duty HD Liners for control cables or Bowden cable construction with high loads. Please visit our website or contact your nearest sales office for more information.

### Key capabilities

- Copper Wire Overview
- PTFE Dielectric Coaxial Core
- PTFE/FEP/PFA/ETFE Insulated Wire Solutions
- Spiral Cut Tubing
- Heat Shrink Solutions
- PTFE UL-AWG Tubing
- PTFE AWG Tubing

### Quality approvals

- UL 94 VO, UL 224, UL & CSA Wire Style Conformity
- MIL-W-16878/4, 5, 6, 23, 25 & 27, and MIL-I-22129C
- FDA or USP VI classification available
- AMS 3295, 3654, 3655 & 3653
- ISO 9001:2015, ISO 14001:2015, and IATF 16949

**Copper wire sizes, stranding, plating and weight**

| <b>AWG Size</b> | <b>Number of strands</b> | <b>Strand size (inches)</b> | <b>Plating</b>      | <b>Nom. Cond. Dia. (inches)</b> | <b>≈ Cond. Weight (Lbs/Kft)</b> |
|-----------------|--------------------------|-----------------------------|---------------------|---------------------------------|---------------------------------|
| 26              | 19                       | 38                          | Tin                 | .020                            | 0.98                            |
| 24              | 19                       | 36                          | Tin                 | .025                            | 1.62                            |
| 22              | 7                        | 30                          | Nickel              | .030                            | 2.32                            |
|                 | 19 Unilay                | 34                          | Tin, Silver, Nickel | .030                            | 2.36                            |
| 20              | 7                        | 28                          | Tin, Nickel         | .038                            | 3.60                            |
|                 | 7                        | .012                        | Nickel              | .037                            | 3.46                            |
|                 | 19                       | 32                          | Nickel              | .038                            | 4.02                            |
| 18              | 7                        | .0152                       | Tin                 | .0456                           | 5.04                            |
|                 | 7                        | 26                          | Silver, Nickel      | .048                            | 5.49                            |
|                 | 16                       | 30                          | Tin                 | .045                            | 4.94                            |
|                 | 19 Unilay                | 30                          | Tin, Silver, Nickel | .048                            | 5.86                            |
| 16              | 19 Unilay                | 29                          | Nickel              | .059                            | 7.45                            |
| 14              | 7                        | .0242                       | Tin                 | .0726                           | 12.76                           |
|                 | 19 Unilay                | 27                          | Tin, Nickel         | .068                            | 11.8                            |
|                 | 41                       | 30                          | Tin                 | .0715                           | 12.66                           |
| 12              | 19 Unilay                | 25                          | Nickel              | .085                            | 18.72                           |
|                 | 19 Unilay                | .0185                       | Tin                 | .0925                           | 20.15                           |
|                 | 65                       | 30                          | Tin                 | .102                            | 20.2                            |
| 10              | 37                       | 26                          | Tin                 | .110                            | 29                              |
|                 | 105                      | 30                          | Tin                 | .130                            | 32.6                            |
| 8               | 70                       | 26                          | Tin                 | .181                            | 55                              |
| 6               | 114                      | .0152                       | Tin                 | .210                            | 88.4                            |
|                 | 133                      | 27                          | Tin                 | .212                            | 82.2                            |
| 4               | 133                      | 25                          | Tin                 | .267                            | 132                             |
| 3               | 133                      | .0199                       | Tin                 | .300                            | 168                             |
| 2               | 259                      | 26                          | Tin                 | .336                            | 210                             |
| 1               | 259                      | 25                          | Tin                 | .378                            | 265                             |
| 1/0             | 259                      | 24                          | Tin                 | .424                            | 336                             |
| 2/0             | 259                      | 23                          | Tin                 | .477                            | 425                             |

**Wire styles**

For every equipment, appliance and fixture design, there is one or more styles that will efficiently and economically provide the required performance. Since Underwriters' Laboratories (UL) and Canadian Standards Association's (CSA) requirements constantly change to reflect the needs of industry, new styles will be added as applicable.

The range of UL wire styles is from 1164 to 10185 and include, as the CSA styles, insulation with PTFE, FEP, PFA, ETFE, PE or combinations of those for temperature range between 100°C and 250°C depending on desired Voltage. See separate overview with all listed wire styles in our capability range. A complete overview with wire styles can be provided upon request.