



### Description

*HCS DataLight series includes a complete line of fiberoptic cables for high transmission rates including voice, data and video.*

*All HCS DataLight cables are produced and rigorously tested to conform to most international standards.*

*HCS DataLight Aerial ADSS Multi-Loose Tube (MLT) cable series provides outstanding all-dielectric design for aerial outdoor installations between poles. These cables consist of 4-144 color-coded bare fibers (250 microns) in up to 12 jell-filled loose tubes.*

*The loose tubes are cabled concentrically around an all dielectric central strength member, and jacketed with black, UV resistant PE compound.*

*A layer of aramid yarn and a black, UV resistant PE outer jacket render the cable suitable for aerial applications between poles.*

*HCS DataLight cables fully conform to and provide a substantial margin above all relevant TIA and IEC standards.*

*Optional fibers available: Multimode 50/125 microns (OM2, OM3, OM4 & OM5), 62.5/125 microns and Singlemode fibers.*

### Applications

HCS DataLight cables can be used for various application including the following:

- ☑ Long haul outside plant telephone, CATV and data-transmission cable
- ☑ Aerial installations
- ☑ Campus distribution cable

HCS DataLight cables support all presently available LAN applications, including the IEEE802.3z protocols for Gigabit Ethernet, 1000BASE-SX (Short wavelength Gigabit Ethernet) 1000BASE-LX (Long wavelength Gigabit Ethernet) & IEEE 802.3ae 10GBASE-SR/SW 10GBASE-LX4 (10 Gigabit Ethernet).

### Qualifications and Approvals

HCS DataLight Cables are tested and verified for full compliance with the following standards:

- ☑ ANSI/TIA-568.3-E
- ☑ ISO/IEC 11801 (2nd Edition)
- ☑ CENELEC EN50173
- ☑ TIA-455
- ☑ IEC 60332-1 (for LSOH constructions)
- ☑ IEC 60754
- ☑ IEC 60793
- ☑ IEC 60794

### Benefits & Features

- ➔ Exceptional material properties and cable design - Providing a unique Century™ Lifetime Warranty.
- ➔ UV and water resistant construction - Providing a single cable suitable for many outdoor locations.
- ➔ All-dielectric construction - Providing perfect EMC (Electro Magnetic Compatibility) and total noise immunity.
- ➔ Aramid yarn served construction - robust and solid cable for non-metallc aerial applications.
- ➔ Crisp and clear color coding - Providing positive fiber identification and ease of termination.
- ➔ Descending sequential meter mark - Providing easy stock and left-over handling.
- ➔ Batch number printed every meter - Providing fast retrieval of test results from data-base.
- ➔ A comprehensive product range - Providing all state-of-the-art cable constructions.
- ➔ Unique DoubleSafe™ Quality Assurance Program - Providing lowest rejection rate available.

# Aerial Non-Metallic ADSS (All-Dielectric Self Supporting) Fiber Optic Cables

## DataLight MLT

### CABLES OPTIONAL CONSTRUCTIONS

HCS DataLight Outdoor MLT Cables contain up to 144 color-coded, 250 micron bare optical fibers.

4-12 color-coded bare fibers are contained in each jell-filled loose tube.

All loose tubes are cabled (with fillers as needed to preserve the cable geometry) around a solid, all dielectric central strength member and water blocking compound placed between tubes.

The cable core is tape wrapped and jacketed with black, UV resistant PE compound. A layer of aramid yarn placed between inner jacket and black, UV resistant PE outer jacket.

The cable is suitable for aerial installations.

The cables fully comply with the EIA/TIA FOTP 82C and IEC 60794-1-22 F5 longitudinal water-blocking tests.

|                             |   |
|-----------------------------|---|
| Basic Fiber                 | As selected from the FIBER OPTIONS Section.                       |
| Buffer Type                 | None. (Bare, color-coded fibers).                                 |
| Fibers OD                   | 250 microns nom.  |
| Loose Tubes                 | 1-12, filled with a Thixotropic gel.                              |
| Central Strength Member     | Rigid, all-dielectric FRP.  |
| Number of Fibers            | 4-144.  |
| Color Code Inside Each Tube | Color Table No. 4: TIA-598-C Color Code                           |
| Color Code of Loose Tubes   | Per request.  |
| Core Filling                | Water blocking jelly  |
| Core Wrap                   | Polyester tape, providing 100% coverage.                          |
| Inner Jacket                | Heavy-duty, UV resistant PE compound.                             |
| Strength Element            | Aramid yarn.  |
| Outer Jacket                | Heavy-duty, UV resistant PE compound.                             |
| Standard Outer Jacket Color | Black RAL 9005. Other colors available upon request.              |
| Standard Surface Marking    | Includes HCS P/N, Cable Description, Meter Mark and Batch Number. |

\*Detailed cable description is available in the relevant technical specification.

### ORDERING INFORMATION

| HCS P/N          | Description               | Tubes | Fiber/Tube | OD<br>mm<br>±10% | Weight<br>kg/km<br>±10% |
|------------------|---------------------------|-------|------------|------------------|-------------------------|
| QFO-01231-DR7-Fx | 12 Fibers ADSS MLT Black  | 3     | 4          | 14.2             | 156                     |
| QFO-02431-DR7-Fx | 24 Fibers ADSS MLT Black  | 6     | 4          | 14.2             | 158                     |
| QFO-04831-DR7-Fx | 48 Fibers ADSS MLT Black  | 6     | 8          | 14.2             | 162                     |
| QFO-07231-DR7-Fx | 72 Fibers ADSS MLT Black  | 6     | 12         | 14.8             | 178                     |
| QFO-09631-DR7-Fx | 96 Fibers ADSS MLT Black  | 8     | 12         | 16.6             | 232                     |
| QFO-14431-DR7-Fx | 144 Fibers ADSS MLT Black | 12    | 12         | 20.1             | 352                     |
| QFO-01241-DR7-Fx | 12 Fibers ADSS MLT Black  | 3     | 4          | 14.6             | 174                     |
| QFO-02441-DR7-Fx | 24 Fibers ADSS MLT Black  | 6     | 4          | 14.6             | 178                     |
| QFO-04841-DR7-Fx | 48 Fibers ADSS MLT Black  | 6     | 8          | 14.6             | 185                     |
| QFO-07241-DR7-Fx | 72 Fibers ADSS MLT Black  | 6     | 12         | 15.2             | 205                     |
| QFO-09641-DR7-Fx | 96 Fibers ADSS MLT Black  | 8     | 12         | 17.2             | 263                     |
| QFO-14441-DR7-Fx | 144 Fibers ADSS MLT Black | 12    | 12         | 20.7             | 392                     |

#### Notes:

1. Detailed P/N breakdown is provided [HERE](#).
2. "FO" in the P/N is replaced by the fiber designation selected from the **FIBER OPTIONS** Table.
3. The default packaging is 2000m reels. Other packaging options to be discussed with HCS Customer Service.
4. The default jacket color of HCS standard cables is Black RAL 9005. Other colors available.
5. LSOH jackets available upon request, to be discussed with HCS Customer Service.
6. CPR options available upon request, to be discussed with HCS Customer Service.
7. "x" shall be replaced by a letter (A to Z) in the cable part number indicated in the detailed technical specification.