



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 Fig-8 Single Loose Tube (SLT) cable series provides outstanding design for aerial outdoor installations between poles.

These cables consist of 2-12 color-coded bare fibers (250 microns OD), contained in a single jell-filled loose tube, overall served with water-blocking swellable glass yarn. A layer of corrugated steel armor & 7x0.92 mm steel messenger wire covered with a black, UV resistant PE outer jacket render the cable suitable for aerial installations 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:

- ☑ Aerial long haul outside plant telephone, CATV and data-transmission 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.
- ➔ Steel messenger wire - robust cable design for aerial installations.
- ➔ 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.

CABLES OPTIONAL CONSTRUCTIONS

HCS DataLight Outdoor SLT Cables contain up to 12 color-coded, 250 micron bare optical fibers.

These cables consist of 2-12 color-coded bare fibers (250 microns OD), contained in a single jell-filled loose tube, overall served with water-blocking swellable glass yarn. A layer of corrugated steel armor & 7x0.92 mm. steel messenger wire covered with a black, UV resistant PE outer jacket render the cable suitable for aerial installations between poles. 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 Tube | Single, filled with a Thixotropic gel. |
| Strength Element Over the Loose Tube | Served swellable aramid yarns, providing longitudinal water blocking, or served glass yarn. |
| Number of Fibers | 2-12. |
| Color Code Inside Each Tube | Color Table No. 4: TIA-598-C Color Code |
| Armor | 150 microns rodent resistant corrugated steel tape. |
| Messenger Wire | 7x0.92 mm steel wires. |
| Outer Jacket | Heavy-duty, UV resistant PE compound. |
| Web | Height: 2.5 ± 0.5 mm Width: 2.5 ± 0.5 mm |
| Cable OD | 17+9 mm. (cable + messenger) |
| 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 mm ±10% | Weight kg/km ±10% |
|------------------|--|-------|------------|------------------|-------------------------|
| XFO-00441-DR7-Fx | 4 Fibers Aerial Fig-8 SLT armored Outdoor Black | 1 | 4 | 17+9 | 146 |
| XFO-00641-DR7-Fx | 6 Fibers Aerial Fig-8 SLT armored Outdoor Black | 1 | 6 | 17+9 | 146 |
| XFO-00841-DR7-Fx | 8 Fibers Aerial Fig-8 SLT armored Outdoor Black | 1 | 8 | 17+9 | 146 |
| XFO-01241-DR7-Fx | 12 Fibers Aerial Fig-8 SLT armored Outdoor Black | 1 | 12 | 17+9 | 146 |

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.