



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 Armored Multi-Loose Tube (MLT) Single Jacket (SJ) cable series provides outstanding armored design for outdoor installations in harsh conditions. 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 tape-wrapped. A layer of corrugated steel armor covered with a black, UV resistant PE or UV resistant LSOH outer jacket render the cable suitable for harsh environments and rodent-infested areas.

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
- ☑ Direct burial and duct installation cable
- ☑ Campus distribution cable
- ☑ Outdoor installations in rodent-infested areas.

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) and more.

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, rodent and water resistant construction - Providing a single cable suitable for a wide range of outdoor locations.
- ➔ Corrugated steel armor with a rip-cord - Providing easy and comfortable cable handling and jacket removal.
- ➔ 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 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 the interstices are filled with water-blocking gel.

The cable core is tape-wrapped and jacketed with black, UV resistant PE or UV resistant LSOH compound.

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	1-24, 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 compound.
Armor	150 micron corrugated steel tape laid longitudinally, bonded to the outer jacket.
Outer Jacket	Heavy duty, UV Resistant PE or UV resistant LSOH 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.
Max. Vertical Rise	150 m.

*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%
UFO-00441-DR7-Fx	4 Fibers Armored Outdoor MLT Black PE	1	4	11.7	129
UFO-00641-DR7-Fx	6 Fibers Armored Outdoor MLT Black PE	3	2	11.7	131
UFO-00841-DR7-Fx	8 Fibers Armored Outdoor MLT Black PE	4	4	11.7	130
UFO-01241-DR7-Fx	12 Fibers Armored Outdoor MLT Black PE	3	4	11.7	131
UFO-01641-DR7-Fx	16 Fibers Armored Outdoor MLT Black PE	4	4	11.7	132
UFO-02441-DR7-Fx	24 Fibers Armored Outdoor MLT Black PE	6	4	11.7	133
UFO-03641-DR7-Fx	36 Fibers Armored Outdoor MLT Black PE	6	6	12.8	161
UFO-04841-DR7-Fx	48 Fibers Armored Outdoor MLT Black PE	6	8	12.8	162
UFO-06041-DR7-Fx	60 Fibers Armored Outdoor MLT Black PE	5	12	13.4	176
UFO-07241-DR7-Fx	72 Fibers Armored Outdoor MLT Black PE	6	12	13.4	178
UFO-09641-DR7-Fx	96 Fibers Armored Outdoor MLT Black PE	8	12	15.2	221
UFO-14441-DR7-Fx	144 Fibers Armored Outdoor MLT Black PE	12	12	18.7	322
UFO-00442-DR7-Fx	4 Fibers Armored Outdoor MLT Black LSOH	1	4	11.7	129
UFO-00642-DR7-Fx	6 Fibers Armored Outdoor MLT Black LSOH	3	2	11.7	130
UFO-00842-DR7-Fx	8 Fibers Armored Outdoor MLT Black LSOH	2	4	11.7	130
UFO-01242-DR7-Fx	12 Fibers Armored Outdoor MLT Black LSOH	3	4	11.7	131
UFO-01642-DR7-Fx	16 Fibers Armored Outdoor MLT Black LSOH	4	4	11.7	132
UFO-02442-DR7-Fx	24 Fibers Armored Outdoor MLT Black LSOH	6	4	11.7	133
UFO-03642-DR7-Fx	36 Fibers Armored Outdoor MLT Black LSOH	6	6	12.8	161
UFO-04842-DR7-Fx	48 Fibers Armored Outdoor MLT Black LSOH	6	8	12.8	162
UFO-06042-DR7-Fx	60 Fibers Armored Outdoor MLT Black LSOH	5	12	13.4	176
UFO-07242-DR7-Fx	72 Fibers Armored Outdoor MLT Black LSOH	6	12	13.4	178
UFO-09642-DR7-Fx	96 Fibers Armored Outdoor MLT Black LSOH	8	12	15.2	221
UFO-14442-DR7-Fx	144 Fibers Armored Outdoor MLT Black LSOH	12	12	18.7	322

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. CPR options available upon request, to be discussed with HCS Customer Service.
6. "x" shall be replaced by a letter (A to Z) in the cable part number indicated in the detailed technical specification.