



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 Simplex and Duplex (SDP) cable series consists of single fiber and double fiber cables in 3 optional outer diameters, jacketed with LSOH compounds.

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:

- ✓ General purpose indoor LAN cable
- ✓ Interconnections for patch panels and communication closets
- ✓ Jumper and pigtail cable
- ✓ Short distance distribution and direct termination
- ✓ Office wiring

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
- ✓ CENELEC EN50173
- ✓ TIA-455
- ✓ IEC 60332-1
- ✓ IEC 60754
- ✓ IEC 60793
- ✓ IEC 60794

Benefits & Features

- ➔ Exceptional material properties and cable design - Providing a unique Century™ Lifetime Warranty.
- ➔ Tight 600 microns or 900 microns buffered fibers - Providing easy, fast and trouble-free termination and use of field-installable connectors.
- ➔ All-dielectric construction - Providing perfect EMC (Electro Magnetic Compatibility) and total noise immunity.
- ➔ Crisp and clear color coding - Providing positive fiber identification and ease of termination.
- ➔ Descending sequential meter mark - Providing easy stock and left-over handling.
- ➔ Smooth, limp and flexible jacket - Providing easy and comfortable cable 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.

OPTIONAL CONSTRUCTIONS

Simplex Cables consist of an optical fiber with a 0.6 or 0.9 mm buffer, reinforced with aramid and/or E-glass strength yarns and protected with LS0H jacket.

Duplex (Figure-8) Zip cables are made with two identical simplex cables connected in a zip-cord formation, one cable identified with a longitudinal rib and/or with color-coded buffer.

Basic Fiber	As selected from the FIBER OPTIONS Section
Buffer Type	Tight.
Buffer Material	LS0H Halogen free flame retardant compound
Buffer OD	600 or 900 mμ nom.
Number Buffered Fibers	1 or 2
Buffer Colors	1. Blue 2. Orange
Strength Elements	Served aramid and/or E-glass yarns
Individual Jacket Material	LS0H halogen free flame retardant compound
Individual Jacket OD	1.6, 2.0 or 2.8 mm nom.
Overall Outer Jacket	None.
Standard Jacket Color	Multimode 50/125μm and 62.5/125μm Fibers: Orange RAL 2003 Laser Optimized (10GBE) 50/125μm Fibers: Purple RAL 4005 Singlemode Fibers: Yellow RAL 1021

Standard Surface Marking Included 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	Simplex OD (mm ±10%)	Duplex OD (mm ±10%)	Weight kg/km ±10%
LFO-00104-DR2-Fx or LFO-00104-DR8-Fx	Simplex LS0H	1.6	N/A	4.0
LFO-00105-DR2-Fx or LFO-00105-DR8-Fx	Simplex LS0H	2.0	N/A	5.0
LFO-00106-DR2-Fx or LFO-00106-DR8-Fx	Simplex LS0H	2.8	N/A	7.5
LFO-00204-DR2-Fx or LFO-00204-DR8-Fx	Duplex Zip LS0H	1.6	1.6 x 3.4	7.3
LFO-00205-DR2-Fx or LFO-00205-DR8-Fx	Duplex Zip LS0H	2.0	2.0 x 4.2	10.5
LFO-00206-DR2-Fx or LFO-00206-DR8-Fx	Duplex Zip LS0H	2.8	2.8 x 6.0	15.6

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 depends on the fiber type: Orange (RAL 2003) for MM fibers. Yellow (RAL 1021) for SM fibers. Other colors available upon request.
5. "x" shall be replaced by a letter (A to Z) in the cable part number indicated in the detailed technical specification.