



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 Single Loose Tube Single-Jacket (SLT-SJ) cable series provides outstanding design for outdoor installations in harsh conditions.

These cables consist of 2-24 color-coded bare fibers (250 microns OD), contained in a single jell-filled loose tube and served with water-blocking swellable aramid yarns or glass yarn. A layer of corrugated steel armor covered with a black, UV resistant PE or 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:

- ☒ General purpose armored outdoor LAN cable
- ☒ Direct burial campus backbone distribution cable
- ☒ Outdoor plant duct installation 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, rodent and water resistant construction - Providing a single cable suitable for many outdoor locations.
- ➔ Crisp and clear color coding - Providing positive fiber identification and ease of termination.
- ➔ Descending sequential meter mark - Providing easy stock and left-over handling.
- ➔ Corrugated steel armor with a rip-cord - Providing easy and comfortable cable handling and jacket removal.
- ➔ 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

HCS DataLight Armored SLT Cables contain up to 24 color-coded, 250 micron bare optical fibers.

All fibers are contained in a single jell-filled loose tube and overall served with water-blocking swellable aramid yarn or glass-yarn. A layer of corrugated steel armor covered with a black, UV resistant PE or LSOH outer jacket render the cable suitable for harsh environments and rodent-infested areas.

A rip-cord is located under the steel armor, for fast and easy armor and jacket removal.

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

All cables are also available with a steel messenger (FIG-8 construction) for aerial installations.

Basic Fiber	As selected from the FIBER OPTIONS Section.
Buffer Type	None. (Bare, color-coded fibers).
Fibers OD	250 microns nom.
Loose Tube	Single, 2.0/3.2 mm ID/OD nom. filled with a Thixotropic gel.
Strength Elements Over the Loose Tube	Served swellable aramid yarns, providing longitudinal water blocking, or served glass yarn.
Number of Fibers	2-24.
Color Code	Color Table No. 3: TIA-598-C Color Code
Armor	150 microns rodent resistant corrugated steel tape.
Outer Jacket	Heavy duty, UV Resistant PE or LSOH compound.
Jacket Thickness	1.5±0.1 mm
Rip Cord	Aramid yarn.
Cable OD	9.5±0.1 mm (Without 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.
Cable Weight	90 kg/km nom.

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

ORDERING INFORMATION

HCS P/N	Description
EFO-00203-DR7-Fx	2 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black
EFO-00403-DR7-Fx	4 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black
EFO-00603-DR7-Fx	6 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black
EFO-00803-DR7-Fx	8 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black
EFO-01003-DR7-Fx	10 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black
EFO-01203-DR7-Fx	12 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black
EFO-01603-DR7-Fx	16 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black
EFO-02403-DR7-Fx	24 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black
EFO-00204-DR7-Fx	2 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black LSOH
EFO-00404-DR7-Fx	4 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black LSOH
EFO-00604-DR7-Fx	6 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black LSOH
EFO-00804-DR7-Fx	8 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black LSOH
EFO-01004-DR7-Fx	10 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black LSOH
EFO-01204-DR7-Fx	12 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black LSOH
EFO-01604-DR7-Fx	16 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black LSOH
EFO-02404-DR7-Fx	24 Fibers Corrugated Steel Armored Outdoor, SLT-SJ, Black LSOH

Notes:

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