# DataLight MTD

## Armored Double-Jacket Multi-Tight Distribution Fiber Optic Cables

**HCS** HES Cabling Systems
*Connecting Networks™*



## 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-Tight-Distribution (MTD) DJ cable series provides outstanding design for outdoor installations in harsh conditions.*
*These cables consist of 2-12 tight-buffered fibers, cabled, served with water-blocking swellable aramid yarns and inner jacketed with black,*
*UV resistant LS0H compound.*
*A layer of corrugated steel armor covered with a black, UV resistant PE 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:

- ☑ Heavy-duty armored indoor/outdoor LAN cable
- ☑ Direct burial campus backbone 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 LS0H constructions)
- ☑ IEC 60754
- ☑ IEC 60793
- ☑ IEC 60794

## Benefits & Features

- ➡ Exceptional material properties and cable design - Providing a unique Century™ Lifetime Warranty.
- ➡ Tight 900 microns buffered fibers - Providing easy, fast and trouble-free termination and use of field-installable connectors.
- ➡ Dry, jell-free longitudinal water blocking - Providing easy and clean cable and fiber termination.
- ➡ 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 MTD Cables contain up to 12 color-coded, tight or semi-tight buffer optical fibers.
In 2-12 fiber cables, all fibers are cabled together, reinforced by water-blocking swellable aramid strength yarns and protected with a flame-retardant, UV resistant LS0H Jacket.
A layer of corrugated steel armor covered with a black, UV resistant PE 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.

| | |
|---|---|
| Basic Fiber | As selected from the FIBER OPTIONS Section |
| Buffer Type | Tight |
| Buffer OD | 900 microns nom |
| Strength Elements | Served aramid yarns, providing longitudinal water blocking |
| Number of Fibers | 2-12 |
| Inner Jacket | LS0H Halogen free and flame retardant compound |
| Armor | 150 microns rodent resistant corrugated steel tape |
| 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 | Buffer | OD mm ±10% | Weight kg/km ±10% |
|---|---|---|---|---|
| GFO-00201-DR7-Fx | 2 Fibers Black | Tight | 9.6 | 103 |
| GFO-00401-DR7-Fx | 4 Fibers Black | Tight | 9.8 | 108 |
| GFO-00601-DR7-Fx | 6 Fibers Black | Tight | 11.4 | 133 |
| GFO-00801-DR7-Fx | 8 Fibers Black | Tight | 11.9 | 144 |
| GFO-01201-DR7-Fx | 12 Fibers Black | Tight | 12.1 | 150 |

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. LS0H 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.