**Indoor
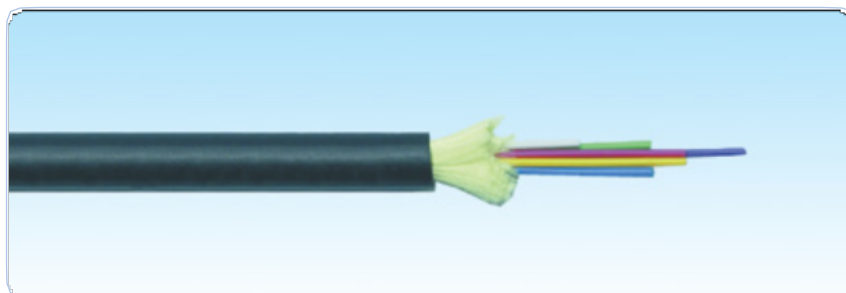Multi-Tight Distribution
Fiber Optic Cables**

Description

*HCS DataLight series includes a complete line of Local Area Network (LAN) 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 Indoor Multi-Tight-Distribution (MTD) cable series consists of 4-72 buffered fibers, cabled, served with aramid yarns and jacketed with either PVC or LS0H compounds.
HCS DataLight cables fully conform to and provide a substantial margin above all relevant TIA/EIA and IEC standards.
Optional fibers available: Multimode 50/125 microns (OM2, OM3 & OM4), 62.5/125 microns and Singlemode fibers.*

Applications

DataLight cables can be used for various application including the following:

- General purpose all-dielectric indoor LAN cable
- In-building backbone and riser, optimized for Centralized Cabling (TIA TSB-72)
- Short distance distribution and trunking
- 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-C.3
- ISO/IEC 11801 (2nd Edition)
- CENELEC EN50173
- EIA/TIA-455
- IEC 60332-1
- IEC60754
- IEC60793
- IEC60794

Benefits & Features

- Exceptional material properties and cable design - Providing a unique Century™ Lifetime Warranty.
- Tight or Semi-tight 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.

DataLight MTD

Indoor
Multi-Tight Distribution
Fiber Optic Cables

OPTIONAL CONSTRUCTIONS

DataLight Indoor MTD Cables contain up to 72 color-coded, 0.9 mm tight or semi-tight buffer optical fibers.
In 4-24 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.
36 and 72-fiber cables are made of 6-fiber sub units. 48 fiber cables are made of 4-fiber sub-units.

Basic Fiber	As selected from the FIBER OPTIONS Section
Buffer Type	Tight or Semi-tight
Buffer Material	LS0H Halogen free or flame retardant PVC compound or acrylic
Buffer OD	900 microns nom
Strength Elements	Served aramid yarns
Number of Fibers	4-72
Color Code	HCS Color Table No. 3 (IEC 60304 Color Code)
Outer Jacket	LS0H Halogen free or flame retardant PVC compound
Standard Outer Jacket Color	Black RAL 9005. Other colors available upon request
Standard Surface Marking	Includes P/N, Cable Description, Meter Mark and Batch Number
Max. Crush Resistance	1000 N in 4-12 fiber cables. 4400 N in 24-72 fiber cables
Short Term Bend Radius	15xOD mm min.
Long Term Bend Radius	10xOD mm min.
Storage Temperature	-25 to +75 oC
Temperature Operating Range	-25 to +75 oC
Flame Test	UL 1581 VW-1 and IEC 60332-1.
Halogen Content in LS0H Cables	Null

ORDERING INFORMATION

HCS P/N	Description	Buffer	OD mm	N, max.		Weight kg/km	Cal. Value kj/m	Notes
NFO-00402	4 Fibers LS0H Black	Semi-Tight	4.9	750	375	25	460	-
NFO-00602	6 Fibers LS0H Black	Semi-Tight	5.8	750	375	34	650	-
NFO-00802	8 Fibers LS0H Black	Semi-Tight	6.2	1000	500	43	830	-
NFO-00401	4 Fibers LS0H Black	Tight	4.9	750	375	25	460	-
NFO-00601	6 Fibers LS0H Black	Tight	5.8	750	375	34	650	-
NFO-00801	8 Fibers LS0H Black	Tight	6.2	1000	500	43	830	-
NFO-01201	12 Fibers LS0H Black	Tight	7.4	1000	500	52	1000	-
NFO-01202	12 Fibers LS0H Black	Semi-Tight	7.4	1000	500	52	1000	-
NFO-02401	24 Fibers LS0H Black	Tight	10.3	1500	750	120	2000	-
NFO-02402	24 Fibers LS0H Black	Semi-Tight	10.3	1500	750	120	2000	-
NFO-03601	36 Fibers LS0H Black	Tight	19.7	1500	750	250	4000	-
NFO-03602	36 Fibers LS0H Black	Semi-Tight	19.7	1500	750	250	4000	-
NFO-04801	48 Fibers LS0H Black	Tight	18.9	1500	750	300	4800	-
NFO-04802	48 Fibers LS0H Black	Semi-Tight	18.9	1500	750	300	4800	-
NFO-07201	72 Fibers LS0H Black	Tight	26.3	1500	750	570	9000	-
NFO-07202	72 Fibers LS0H Black	Semi-Tight	26.3	1500	750	570	9000	-

Notes:

The "FO" in the P/N is replaced by the fiber designation selected from the **FIBER OPTIONS** Table.
Packaging options to be discussed with HCS Customer Service.
The standard jacket color is Black RAL 9005. Other colors available upon request.