

Indoor/Outdoor Dielectric Multi-Loose Tube Fiber Optic Cables

DataLight MLT

OPTIONAL CONSTRUCTIONS

HCS DataLight Outdoor MLT Cables contain up to 288 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 compound.

The cables fully comply with the EIA/TIA FOTP 82B and IEC 60794-1-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	4-288
Color Code Inside Each Tube	Color Table No. 4: ANSI/TIA/EIA-598-A Color Code)
Color Code of Loose Tubes	Per request
Core Filling	Water blocking compound
Core Wrap	Polyester tape, providing 100% coverage
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
Max. Vertical Rise	150 m
Max. Tensile Strength - Short Term	2500 N
Max. Tensile Strength - Long Term	1500 N
Min. Bending Radius - Short Term	20xD
Min. Bending Radius - Long Term	10xD
Repeated Bending	100 Cycles min
Crush Resistance	2200 N
Storage Temperature	-50 to +70 oC
Temperature Operating Range	-40 to +70 oC

ORDERING INFORMATION

HCS P/N	Description	Tubes	Fiber/Tube	OD mm	Weight Kg/Km	Caloric Value Kj/m	Notes
QFO-00401	4 Fibers All Dielectric Indoor/Outdoor MLT Black	1	4	12	140	3000	-
QFO-00601	6 Fibers All Dielectric Indoor/Outdoor MLT Black	2	3	12	140	3000	-
QFO-00801	8 Fibers All Dielectric Indoor/Outdoor MLT Black	3	4	12	140	3000	-
QFO-01201	12 Fibers All Dielectric Indoor/Outdoor MLT Black	4	4	12	140	3000	-
QFO-01601	16 Fibers All Dielectric Indoor/Outdoor MLT Black	4	4	12	140	3000	-
QFO-02001	20 Fibers All Dielectric Indoor/Outdoor MLT Black	5	4	12	140	3000	-
QFO-02401	24 Fibers All Dielectric Indoor/Outdoor MLT Black	6	4	12	140	3000	-
QFO-03601	36 Fibers All Dielectric Indoor/Outdoor MLT Black	6	6	12	140	3000	-
QFO-04801	48 Fibers All Dielectric Indoor/Outdoor MLT Black	6	8	12	140	3000	-
QFO-06001	60 Fibers All Dielectric Indoor/Outdoor MLT Black	5	12	12	140	3000	-
QFO-07201	72 Fibers All Dielectric Indoor/Outdoor MLT Black	6	12	13	150	3200	-
QFO-09601	96 Fibers All Dielectric Indoor/Outdoor MLT Black	8	12	15	190	4000	-
QFO-12001	120 Fibers All Dielectric Indoor/Outdoor MLT Black	10	12	17	240	5000	-
QFO-14401	144 Fibers All Dielectric Indoor/Outdoor MLT Black	12	12	19	290	6000	-

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.

Outer jacket is available LSOH. This option can be discussed with HCS Customer Service.