

# Aerial Non-Metallic ADSS (All-Dielectric Self Supporting) Fiber Optic Cables



## CABLES OPTIONAL CONSTRUCTIONS

HCS DataLight Outdoor MLT Cables contain up to 144 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 water blocking compound placed between tubes. The cable core is tape wrapped and jacketed with black, UV resistant PE compound. A layer of aramid yarn placed on between inner jacket and outer jacket. Cable covered with a black, UV resistant PE outer jacket render the cable suitable for aerial applications between poles. 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	1-12, filled with a Thixotropic gel.
Central Strength Member	Rigid, all-dielectric FRP.
Number of Fibers	4-144.
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 jelly compound.
Core Wrap	Polyester tape, providing 100% coverage.
Inner Jacket	Heavy-duty, UV resistant PE compound.
Strength Element	Aramid yarn.
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.
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 +70C
Temperature Operating Range	-40 to +70C

## ORDERING INFORMATION

HCS P/N	Description	Tubes	Fibers/Tube	OD mm	Tensile Strength (KN)		Weight Kg/Km	Span (m)
					Inst.	Oper.		
QFO-01231	12 Fibers ADSS MLT Black	3	4	14.2	7	4.5	156	100
QFO-02431	24 Fibers ADSS MLT Black	6	4	14.2	7	4.5	158	100
QFO-04831	48 Fibers ADSS MLT Black	6	8	14.2	7.5	4.6	162	100
QFO-07231	72 Fibers ADSS MLT Black	6	12	14.8	8	4.8	178	100
QFO-09631	96 Fibers ADSS MLT Black	8	12	16.6	9	5	232	100
QFO-14431	144 Fibers ADSS MLT Black	12	12	20.1	11	6.5	352	100
QFO-01241	12 Fibers ADSS MLT Black	3	4	14.6	15	10	174	300
QFO-02441	24 Fibers ADSS MLT Black	6	4	14.6	15	10	178	300
QFO-04841	48 Fibers ADSS MLT Black	6	8	14.6	17	11	185	300
QFO-07241	72 Fibers ADSS MLT Black	6	12	15.2	18.5	11.5	205	300
QFO-09641	96 Fibers ADSS MLT Black	8	12	17.2	20	14	263	300
QFO-14441	144 Fibers ADSS MLT Black	12	12	20.7	25	18	392	300

**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.  
 LSOH outer jacket is available upon request.