

Armored Multi-Loose Tube Fiber Optic Cables

Optional Constructions

HCS DataLight Armored MLT Cables contain up to 192 color-coded, 250 micron bare optical fibers.

4-16 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 inner jacketed with black UV resistant PE compound.

A layer of corrugated steel armor covered with a black or orange UV resistant PE outer jacket render the cable suitable for harsh environments and rodent-infested areas.

The cables fully comply with the EIA/TIA FOTP 82B and IEC 794-1-F5 longitudinal water-blocking tests.

Optional constructions are available with full conformance & official verification to Turkish Telecom TRFO 8 spec.

Item	HCS Standard Cables	Cables conforming to TT TRFO 8
Basic Fiber :	As selected from the FIBER OPTIONS Section	As selected from the FIBER OPTIONS Section
Buffer type:	None. (Bare, color-coded fibers)	None. (Bare, color-coded fibers)
Fibers OD:	250 microns nom	250 microns nom
Loose tubes:	1-12, filled with a Thixotropic gel	1-16, filled with a Thixotropic gel
Central strength member:	Rigid, all-dielectric FRP	Rigid, all-dielectric FRP
Number of fibers:	4-144	4-192
Color Code inside each tube:	Color Table No. 4: ANSI/TIA/EIA-598-A Color Code	Color Table No. 5: Turk Telecom TRFO-8 Color Code
Color Code of loose tubes:	Per request	Color Table No. 5: Turk Telecom TRFO-8 Color Code
Core filling:	Water blocking compound	Water blocking compound
Core wrap:	Polyester tape, providing 100% coverage	None
Inner Jacket:	Heavy duty, UV Resistant PE compound	Heavy duty, UV Resistant PE compound
Armor	150 microns rodent resistant corrugated steel tape	150 microns rodent resistant corrugated steel tape
Rip cord:	Laid under the armor	Laid under the armor
Outer Jacket:	Heavy duty, UV Resistant PE compound	Heavy duty, UV Resistant PE compound
Standard Outer Jacket Color :	Black RAL 9005. Other colors available upon request	Orange RAL 2008
Standard Surface Marking :	Includes HCS P/N, cable description, Meter mark and Batch Number	Includes HCS P/N, cable description, Meter mark and Batch Number
Max. Vertical Rise:	150 m	150 m
Max. Tensile Strength - Short term	Up to 72-fiber cables :2700 N. Over 72-fiber cables: 5000 N	Up to 48-fiber cables :8000 N. Over 48-fiber cables: 14000 N
Max. Tensile Strength - Long term	1700 N	Up to 48-fiber cables :5000 N. Over 48-fiber cables: 8000 N
Min. Bending Radius - Short term	20xD	20xD
Min. Bending Radius - Long term	20xD	20xD
Repeated bending:	25 Cycles min.	10 Cycles min.
Crush Resistance	8000 N.	2000 N.
Storage Temperature :	-50 to +70C	-50 to +70C
Temperature operating range :	-40 to +70C	-40 to +70C

Ordering Information

HCS P/N	Description	Tube	Fiber/Tube	OD mm	Weight Kg/Km	Caloric Value Kj/m	TT P/N
UFO-00401	4 Fibers Armored Outdoor MLT Black	1	4	15	210	3500	NA
UFO-00421	4 Fibers Armored Outdoor TRFO 8 MLT Orange	2	2	16	220	3500	4FO-Y
UFO-00621	6 Fibers Armored Outdoor TRFO 8 MLT Orange	3	2	16	220	3500	6FO-Y
UFO-00801	8 Fibers Armored Outdoor MLT Black	2	4	15	210	3500	NA
UFO-01221	12 Fibers Armored Outdoor TRFO 8 MLT Orange	6	2	16	225	3500	12FO-Y
UFO-02001	20 Fibers Armored Outdoor MLT Black	5	4	15	210	3500	NA
UFO-02421	24 Fibers Armored Outdoor TRFO 8 MLT Orange	6	4	16	225	3500	24FO-Y
UFO-03621	36 Fibers Armored Outdoor TRFO 8 MLT Orange	6	6	17	270	3500	36FO-Y
UFO-04821	48 Fibers Armored Outdoor TRFO 8 MLT Orange	6	8	17	270	3500	48FO-Y
UFO-06001	60 Fibers Armored Outdoor MLT Black	5	12	15	210	3500	NA
UFO-06021	60 Fibers Armored Outdoor TRFO 8 MLT Orange	5	12	18	295	3500	60FO-Y
UFO-07201	72 Fibers Armored Outdoor MLT Black	6	12	16	260	3700	NA
UFO-09601	96 Fibers Armored Outdoor MLT Black	8	12	18	320	4600	NA
UFO-09621	96 Fibers Armored Outdoor TRFO 8 MLT Orange	8	12	20	350	4600	96FO-Y
UFO-12001	120 Fibers Armored Outdoor MLT Black	10	12	20	390	5700	NA
UFO-14401	144 Fibers Armored Outdoor MLT Black	12	12	22	450	7000	NA
UFO-14421	144 Fibers Armored Outdoor TRFO 8 MLT Orange	12	12	24	480	7000	144FO-Y
UFO-19221	192 Fibers Armored Outdoor TRFO 8 MLT Orange	16	12	24	480	7000	192FO-Y

Notes:

1. The "FO" in the P/N is replaced by the fiber designation selected from the FIBER OPTIONS Table.
2. Packaging options to be discussed with HCS Customer Service.
3. The standard jacket color of HCS standard cables is Black RAL 9005. Other colors available upon request.
4. P/Ns UFO-xxx21 are officially verified according to Turkish Telecom Spec TRFO 8, jacket color Orange.