

# FTTH Drop Cable Aerial Outdoor – Steel Messenger Wire

## APPLICATION

- Aerial applications; low smoke, zero halogen.
- For aerial applications.
- Completely dry design.

## USAGE

Minimum Bending Radius	
Operation	20 x cable Ø
Fixed	15 x cable Ø
Temperature Range	
Storage	-10°C to +70°C
Transport	-10°C to +70°C
Installation	-30°C to +60°C
Operating	-30°C to +60°C

## TEST STANDARDS

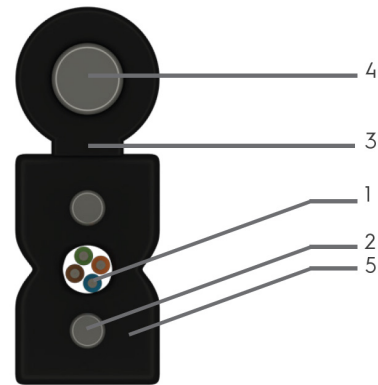
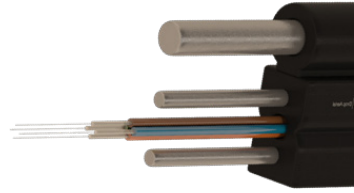
Low Smoke Test	IEC 61034, EN 50268
Non-corrosiveness Test	IEC 60754, EN 50267
Flame Retardancy Test	IEC 60332-1

## COMPLIANCE

EN 50173-1:2018
EN 50575: 2014 + A1: 2016
EN 50399:2011+A1:2016
ISO/IEC 11801-1:2017
ANSI/TIA 568-3.D
ANSI/TIA/EIA 598-D
RoHS-II/-III, WFD: 2023

## CABLE CONSTRUCTION

1. Optical fiber core
2. Steel wire strength member
3. Web
4. Steel messenger wire
5. UV resistant halogen-free (LSOH) outer jacket



Cross Section



## NOTE

For fiber core mode based specifications, please refer the FIBER CORE SPECIFICATIONS Attached.

## MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

	Test Standard	Specified Value	Acceptance Criteria
Maximum Installation Tension <sup>2</sup>	IEC 60794-1-2-E1	Max. 600 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	-	-	Δα ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	800 N / 100 mm, max. 15 min.	Δα ≤ 0.05 dB, No damage
Impact	IEC 60794-1-2-E4	0.74 Nm, 3 impacts, R= 25 mm	Δα ≤ 0.05 dB after the test
Torsion	IEC 60794-1-2-E7	1 m. 100N, +/- 360°, 10 cycles	Δα ≤ 0.05 dB, No damage
Repeated Bending	IEC 60794-1-2-E6	R=20x D, 100 N, 35 cycles	No damage
Bending Radius	IEC 60794-1-2-E11	R=20x D, 5 turns, 3 cycles	Δα ≤ 0.05 dB, No damage
Temperature Cycling	IEC 60794-1-2-F1	-10°C to +60°C	Δα ≤ 0.10 dB/km
Waterproofness	IEC 60794-1-2-F5B	Sample= 3 m, water column= 1 m	No water leakage in 24 hours.

## | ORDERING

Part Number	Core Type	Fiber Count	Cable Dimensions (mm)	Cable Weight (kg/km)
14F-809-01TB-352	SM G.652.D	1	2.0 x 5.0	21
14F-809-02TB-352	SM G.652.D	2	2.0 x 5.0	21
14F-809-04TB-352	SM G.652.D	4	2.0 x 5.0	21

Part Number	Core Type	Fiber Count	Cable Dimensions (mm)	Cable Weight (kg/km)
14F-809-01TB-371	SM G.657.A1	1	2.0 x 5.0	21
14F-809-02TB-371	SM G.657.A1	2	2.0 x 5.0	21
14F-809-04TB-371	SM G.657.A1	4	2.0 x 5.0	21

Part Number	Core Type	Fiber Count	Cable Dimensions (mm)	Cable Weight (kg/km)
14F-809-01TB-372	SM G.657.A2	1	2.0 x 5.0	21
14F-809-02TB-372	SM G.657.A2	2	2.0 x 5.0	21
14F-809-04TB-372	SM G.657.A2	4	2.0 x 5.0	21

Jackets like OFNP, OFNR, OFNG, OFN, OFCP, OFCR etc available on request.