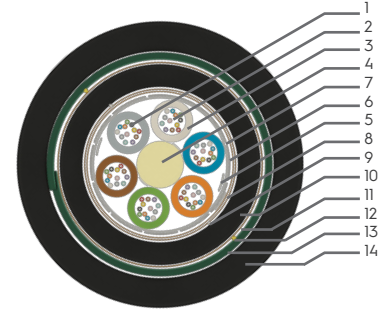


Fiber Optic Cables

MLT-SA-DHFJ-(GY40)-(D)-(FR)

U-DQ(ZN)H(SR)H

Multi loose tube, corrugated steel tape armor, fire resistant fiber optic cable.



Application

- Indoor and duct type applications; low smoke, zero halogen.
- In heavy duty environments.
- In network systems, MAN, WAN, LAN applications..
- Rodent protection.
- Due to its fire resistance, in applications where human life needs to be protected.

Cable Construction

- Optical fiber core ¹
- Waterproof thixotropic jelly
- PBT Tube
- Non-metallic central strength member (FRP)
- Water-swellable yarn
- Core Wrapping (Water-swellable Tape)
- Non-metallic strength member (Glass yarn)
- Double layer of mica tape
- Ripcord
- UV resistant halogen-free (LSOH) inner jacket
- Mica tape
- Ripcord
- Corrugated steel tape
- UV resistant halogen-free (LSOH) outer jacket

Mechanical and Environmental Characteristics

	Test Standard	Specified Value	Acceptance Criteria
Maximum Installation Tension ²	IEC 60794-1-2-E1	1.5 x W(N), min. 4000 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	0.5 x W(N), min. 1500 N	Δα ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	3000 N / 100 mm, max. 15 min.	Δα ≤ 0.05 dB, No damage
Impact	IEC 60794-1-2-E4	10 Nm, 3 impacts, R= 300 mm	Δα ≤ 0.05 dB after the test
Torsion	IEC 60794-1-2-E7	1 m. 100N, +/- 180°, 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, 4 turns, 3 cycles	Δα ≤ 0.05 dB, No damage
Temperature Cycling	IEC 60794-1-2-F1	-20°C to +70°C	Δα ≤ 0.05 dB/km
Waterproofness	IEC 60794-1-2-F5B	Sample= 3 m, water column= 1 m	No water leakage in 24 hours.

Application

	Minimum Bending Radius		Temperature Range	
Operation	20 x cable Ø	Storage	0°C to +70°C	Installation -30°C to +60°C
Fixed	15 x cable Ø	Transport	0°C to +70°C	Operating -20°C to +70°C

Marking, Packing, Delivery Lengths

Marking	ETK Kablo <Date of Manufacture> <Fiber Count and Type> <Length Marking>
Packing	Wooden drum with protection
Delivery Lengths	2 km, 4 km ± %5 tolerance

Test Standards

Low Smoke Test	Non-corrosiveness Test	Fire Performance Test	Flame Retardancy Test
IEC 61034, EN 50268	IEC 60754, EN 50267	IEC 60331-25	IEC 60332-1

Notes

¹ Optical fiber core could be applied as G.652.D, G.655, G.657.A1, G.657.A2, OM1, OM2, OM3, OM4 according to customer demand.

² Maximum tensile strength could be changed according to customer demand.

Manufacturing Standard: Turkish Telecom Technical Specification

MLT-SA-DHFJ-(GY40)-(D)-(FR)

Part Number	Core Type	Fiber Count	Tube Count	Filler Count	Tube Diameter (mm)	FRP Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)
3.232.2.6.3.1900.0.0004	SM G.652.D	4	2	4	2.05	2.2	15.9	322
3.232.2.6.3.1900.0.0008	SM G.652.D	8	4	2	2.05	2.2	15.9	323
3.232.2.6.3.1900.0.0012	SM G.652.D	12	6	0	2.05	2.2	15.9	324
3.232.2.6.3.1900.0.0024	SM G.652.D	24	6	0	2.05	2.2	15.9	324
3.232.2.6.3.1900.0.0036	SM G.652.D	36	6	0	2.05	2.2	15.9	324
3.232.2.6.3.1900.0.0048	SM G.652.D	48	6	0	2.05	2.2	15.9	324
3.232.2.6.3.1900.0.0060	SM G.652.D	60	5	1	2.25	2.5	16.6	340
3.232.2.6.3.1900.0.0072	SM G.652.D	72	6	0	2.25	2.5	16.6	341
3.232.2.6.3.1900.0.0096	SM G.652.D	96	8	0	2.25	2.7	18	387
3.232.2.6.3.1900.0.0144	SM G.652.D	144	12	0	2.25	2.7	21	492