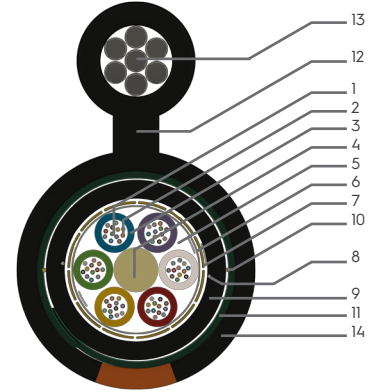
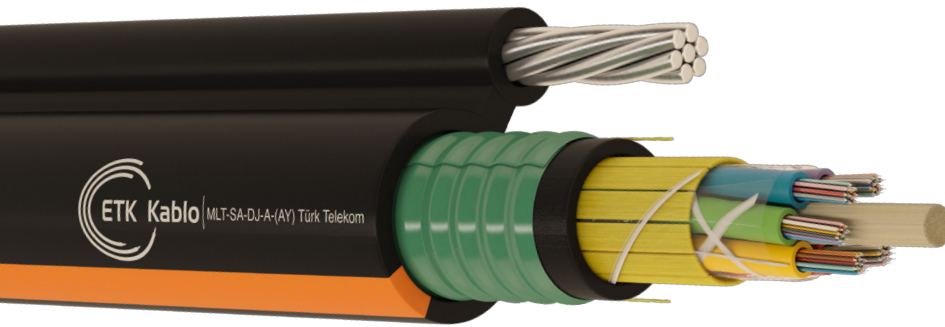


## Fiber Optic Cables

# MLT-SA-DJ-A(L)-(AY50) Türk Telekom

A-DF(ZN)2Y(SR)T2Y Türk Telekom

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



### Application

- For aerial applications.
- In heavy duty environments.
- Suitable to be used up to 60 meters pole span.
- As a backbone cable in telecommunication lines.

### Cable Construction

- 1 - Optical fiber core <sup>1</sup>
- 2 - Waterproof thixotropic jelly
- 3 - PBT Tube
- 4 - Non-metallic central strength member (FRP)
- 5- Jelly filling
- 6 - Core Wrapping (Polyester Tape)
- 7 - Non-metallic strength member (Glass yarn)
- 8 - Ripcord
- 9 - UV resistant polyethylene (LLDPE) black inner jacket
- 10 - Ripcord
- 11 - Corrugated steel tape
- 12 - Web
- 13 - Steel messenger wire (7x1.20 mm)
- 14 - UV resistant polyethylene (MDPE) black outer jacket with orange tracer.

### Mechanical and Environmental Characteristics

	Test Standard	Specified Value	Acceptance Criteria
Maximum Installation Tension <sup>2</sup>	IEC 60794-1-2-E1	3.0 x W(N), min. 5000 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	1.0 x W(N), min. 1500 N	Δa ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	5000 N / 100 mm, max. 15 min.	Δa ≤ 0.05 dB, No damage
Impact	IEC 60794-1-2-E4	10 Nm, 3 impacts, R= 300 mm	Δa ≤ 0.05 dB after the test
Torsion	IEC 60794-1-2-E7	1 m. 100N, +/- 180°, 10 cycles	Δa ≤ 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	Δa ≤ 0.05 dB, No damage
Temperature Cycling	IEC 60794-1-2-F1	-20°C to +70°C	Δa ≤ 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	-40°C to +70°C	Installation	-30 to +60°C
Fixed	15 x cable Ø	Transport	-40°C to +70°C	Operating	-40°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

#### Notes

<sup>1</sup> 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.

<sup>2</sup> Maximum tensile strength could be changed according to customer demand.

Manufacturing Standard: Turkish Telecom Technical Specification

## MLT-SA-DJ-A(L)-(AY50) Türk Telekom

Part Number	Core Type	Fiber Count	Tube Count	Filler Count	Tube Diameter (mm)	FRP Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)
3.843.1.6.1.0900.0.0004	SM G.652.D	4	2	4	2.05	2.2	15.4	328
3.843.1.6.1.0900.0.0006	SM G.652.D	6	3	3	2.05	2.2	15.4	329
3.843.1.6.1.0900.0.0012	SM G.652.D	12	6	0	2.05	2.2	15.4	331
3.843.1.6.1.0900.0.0024	SM G.652.D	24	6	0	2.05	2.2	15.4	331
3.843.1.6.1.0900.0.0036	SM G.652.D	36	6	0	2.05	2.2	15.4	330
3.843.1.6.1.0900.0.0048	SM G.652.D	48	4	2	2.25	2.2	16.1	344