

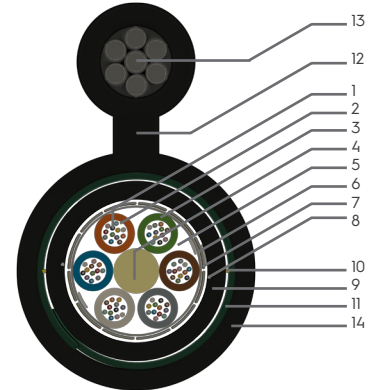
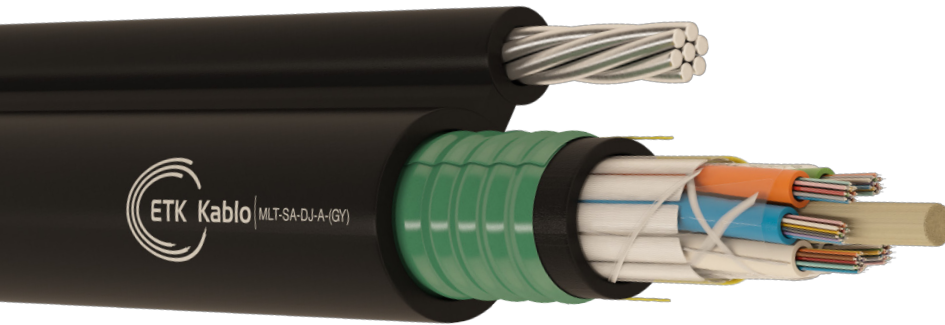
# Fiber Optic Cables

## MLT-SA-DJ-A(S)-(GY27)

RoHS REACH CE

A-DF(ZN)2Y(SR)T2Y

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 40 meters pole span.
- As a backbone cable in telecommunication lines.
- Rodent protection.

### 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 (7x1.32 mm)
- 14 - UV resistant polyethylene (HDPE) black outer jacket

### Mechanical and Environmental Characteristics

|   | Test Standard     | Specified Value                | Acceptance Criteria           |
|---|-------------------|--------------------------------|-------------------------------|
| Maximum Installation Tension <sup>2</sup> | IEC 60794-1-2-E1  | 1.5 x W(N), min. 2700 N        | Fiber strain ≤ 0.33%          |
| Maximum Operation Tension                 | IEC 60794-1-2-E1  | 0.5 x W(N), min. 900 N         | Δα ≤ 0.05 dB, No fiber strain |
| Crush Strength                            | IEC 60794-1-2-E3  | 4000 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   | -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: TS EN 60794-3-12

## MLT-SA-DJ-A(S)-(GY27)

| Part Number          | Core Type  | Fiber Count | Tube Count | Filler Count | Tube Diameter (mm) | FRP Diameter (mm) | Cable Diameter (mm) | Cable Weight (kg/km) |
|----------------------|------------|-------------|------------|--------------|--------------------|-------------------|---------------------|----------------------|
| 3.2370.6.10900.00002 | SM G.652.D | 2           | 1          | 5            | 2.05               | 2.2               | 13.9                | 322                  |
| 3.2370.6.10900.10004 | SM G.652.D | 4           | 1          | 5            | 2.05               | 2.2               | 13.9                | 322                  |
| 3.2370.6.10900.00004 | SM G.652.D | 4           | 2          | 4            | 2.05               | 2.2               | 13.9                | 323                  |
| 3.2370.6.10900.10006 | SM G.652.D | 6           | 1          | 5            | 2.05               | 2.2               | 13.9                | 322                  |
| 3.2370.6.10900.00006 | SM G.652.D | 6           | 3          | 3            | 2.05               | 2.2               | 13.9                | 324                  |
| 3.2370.6.10900.10008 | SM G.652.D | 8           | 1          | 5            | 2.05               | 2.2               | 13.9                | 322                  |
| 3.2370.6.10900.20008 | SM G.652.D | 8           | 2          | 4            | 2.05               | 2.2               | 13.9                | 323                  |
| 3.2370.6.10900.00008 | SM G.652.D | 8           | 4          | 2            | 2.05               | 2.2               | 13.9                | 324                  |
| 3.2370.6.10900.10012 | SM G.652.D | 12          | 1          | 5            | 2.25               | 2.2               | 13.9                | 323                  |
| 3.2370.6.10900.20012 | SM G.652.D | 12          | 3          | 3            | 2.05               | 2.2               | 13.9                | 323                  |
| 3.2370.6.10900.00012 | SM G.652.D | 12          | 6          | 0            | 2.05               | 2.2               | 13.9                | 326                  |
| 3.2370.6.10900.10016 | SM G.652.D | 16          | 2          | 4            | 2.05               | 2.2               | 13.9                | 322                  |
| 3.2370.6.10900.00016 | SM G.652.D | 16          | 4          | 2            | 2.05               | 2.2               | 13.9                | 324                  |
| 3.2370.6.10900.00020 | SM G.652.D | 20          | 5          | 1            | 2.05               | 2.2               | 13.9                | 325                  |
| 3.2370.6.10900.10024 | SM G.652.D | 24          | 2          | 4            | 2.25               | 2.2               | 13.9                | 324                  |
| 3.2370.6.10900.30024 | SM G.652.D | 24          | 3          | 3            | 2.05               | 2.2               | 13.9                | 323                  |
| 3.2370.6.10900.20024 | SM G.652.D | 24          | 4          | 2            | 2.05               | 2.2               | 13.9                | 324                  |
| 3.2370.6.10900.00024 | SM G.652.D | 24          | 6          | 0            | 2.05               | 2.2               | 13.9                | 325                  |
| 3.2370.6.10900.00032 | SM G.652.D | 32          | 4          | 2            | 2.05               | 2.2               | 13.9                | 323                  |
| 3.2370.6.10900.10036 | SM G.652.D | 36          | 3          | 3            | 2.25               | 2.2               | 13.9                | 324                  |
| 3.2370.6.10900.00036 | SM G.652.D | 36          | 6          | 0            | 2.05               | 2.2               | 13.9                | 325                  |
| 3.2370.6.10900.10048 | SM G.652.D | 48          | 4          | 2            | 2.25               | 2.2               | 14.2                | 333                  |
| 3.2370.6.10900.00048 | SM G.652.D | 48          | 6          | 0            | 2.05               | 2.2               | 13.9                | 324                  |
| 3.2370.6.10900.00060 | SM G.652.D | 60          | 5          | 1            | 2.25               | 2.5               | 14.6                | 343                  |
| 3.2370.6.10900.00064 | SM G.652.D | 64          | 8          | 0            | 2.25               | 2.7               | 16.0                | 414                  |
| 3.2370.6.10900.00072 | SM G.652.D | 72          | 6          | 0            | 2.25               | 2.5               | 14.6                | 344                  |
| 3.2370.6.10900.00096 | SM G.652.D | 96          | 8          | 0            | 2.25               | 2.7               | 16.0                | 412                  |
| 3.2370.6.10900.00144 | SM G.652.D | 144         | 12         | 0            | 2.25               | 2.7               | 19.0                | 501                  |