

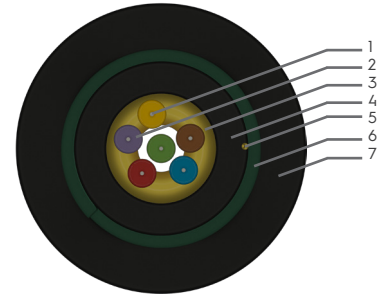
Fiber Optic Cables

TB-SA-DJ

A-V(ZN)H(SR)2Y

Outdoor Distribution Cable

RoHS REACH 



Application

- Easy strippable 900 µm diameter tight buffer fiber.
- Outdoor, direct burial and duct type applications.
- In heavy duty environments.
- As a backbone cable in FTTx systems.
- Completely dry design.

Cable Construction

- 1 - Optical fiber core ¹
- 2 - HFFR insulated tight-buffered fiber of 900 µm diameter
- 3 - Non-metallic strength member (Glass yarn or aramid yarn)
- 4 - UV resistant halogen-free (LSOH) black inner jacket.
- 5 - Ripcord
- 6 - Corrugated steel tape
- 7 - 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 | 1.0 x W(N), min. 1200 N | Fiber strain ≤ 0.33% |
| Maximum Operation Tension | IEC 60794-1-2-E1 | 0.5 x W(N), min. 600 N | Δa ≤ 0.05 dB, No fiber strain |
| Crush Strength | IEC 60794-1-2-E3 | 1000 N / 100 mm, max. 10 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 |

Application

| | Minimum Bending Radius | Temperature Range | | | |
|-----------|------------------------|-------------------|----------------|--------------|----------------|
| Operation | 20 x cable Ø | Storage | -40°C to +70°C | Installation | -30°C 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

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: TS EN 60794-3-12

TB-SA-DJ

| Part Number | Core Type | Fiber Count | Cable Diameter (mm) | Cable Weight (kg/km) |
|-------------------------|------------|-------------|---------------------|----------------------|
| 4.295.0.3.1.0900.0.0002 | SM G.652.D | 2 | 10.8 | 113 |
| 4.295.0.3.1.0900.0.0004 | SM G.652.D | 4 | 11.2 | 122 |
| 4.295.0.3.1.0900.0.0006 | SM G.652.D | 6 | 11.7 | 132 |
| 4.295.0.3.1.0900.0.0008 | SM G.652.D | 8 | 12.2 | 144 |
| 4.295.0.3.1.0900.0.0012 | SM G.652.D | 12 | 12.9 | 156 |
| 4.295.0.3.1.0900.0.0024 | SM G.652.D | 24 | 14.0 | 195 |
| Part Number | Core Type | Fiber Count | Cable Diameter (mm) | Cable Weight (kg/km) |
| 4.295.0.3.1.0625.0.0002 | OM1 | 2 | 10.8 | 113 |
| 4.295.0.3.1.0625.0.0004 | OM1 | 4 | 11.2 | 122 |
| 4.295.0.3.1.0625.0.0006 | OM1 | 6 | 11.7 | 132 |
| 4.295.0.3.1.0625.0.0008 | OM1 | 8 | 12.2 | 144 |
| 4.295.0.3.1.0625.0.0012 | OM1 | 12 | 12.9 | 156 |
| 4.295.0.3.1.0625.0.0024 | OM1 | 24 | 14.0 | 195 |
| Part Number | Core Type | Fiber Count | Cable Diameter (mm) | Cable Weight (kg/km) |
| 4.295.0.3.1.0502.0.0002 | OM2 | 2 | 10.8 | 113 |
| 4.295.0.3.1.0502.0.0004 | OM2 | 4 | 11.2 | 122 |
| 4.295.0.3.1.0502.0.0006 | OM2 | 6 | 11.7 | 132 |
| 4.295.0.3.1.0502.0.0008 | OM2 | 8 | 12.2 | 144 |
| 4.295.0.3.1.0502.0.0012 | OM2 | 12 | 12.9 | 156 |
| 4.295.0.3.1.0502.0.0024 | OM2 | 24 | 14.0 | 195 |
| Part Number | Core Type | Fiber Count | Cable Diameter (mm) | Cable Weight (kg/km) |
| 4.295.0.3.1.0503.0.0002 | OM3 | 2 | 10.8 | 113 |
| 4.295.0.3.1.0503.0.0004 | OM3 | 4 | 11.2 | 122 |
| 4.295.0.3.1.0503.0.0006 | OM3 | 6 | 11.7 | 132 |
| 4.295.0.3.1.0503.0.0008 | OM3 | 8 | 12.2 | 144 |
| 4.295.0.3.1.0503.0.0012 | OM3 | 12 | 12.9 | 156 |
| 4.295.0.3.1.0503.0.0024 | OM3 | 24 | 14.0 | 195 |
| Part Number | Core Type | Fiber Count | Cable Diameter (mm) | Cable Weight (kg/km) |
| 4.295.0.3.1.0504.0.0002 | OM4 | 2 | 10.8 | 113 |
| 4.295.0.3.1.0504.0.0004 | OM4 | 4 | 11.2 | 122 |
| 4.295.0.3.1.0504.0.0006 | OM4 | 6 | 11.7 | 132 |
| 4.295.0.3.1.0504.0.0008 | OM4 | 8 | 12.2 | 144 |
| 4.295.0.3.1.0504.0.0012 | OM4 | 12 | 12.9 | 156 |
| 4.295.0.3.1.0504.0.0024 | OM4 | 24 | 14.0 | 195 |