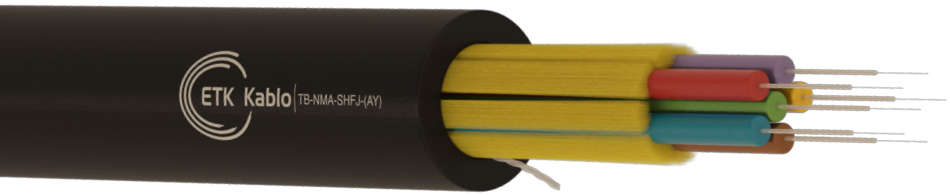
Fiber Optic Cables

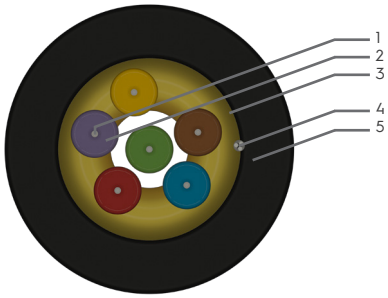
TB-NMA-SHFJ

J-V(ZN)H

Indoor Distribution Cable

RoHS REACH CE





Application

· Easy strippable 900 µm diameter tigh buffer fiber.
· Indoor and duct type applications; low smoke, zero halogen.
· Problem-free use in power lines due to its non-metallic construction.
· 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 - Ripcord
5 - 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. 1000 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	0.5 x W(N), min. 500 N	Δα ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	1000 N / 100 mm, max. 10 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°, 5 cycles	Δα ≤ 0.05 dB, No damage
Repeated Bending	IEC 60794-1-2-E6	R=20x D, 100 N, 5 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

Application

	Minimum Bending Radius
Operation	20 x cable Ø
Fixed	15 x cable Ø

	Temperature Range		
Storage	-40°C to +70°C	Installation	-30°C to +60°C
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

Test Standards

Low Smoke Test	Non-corrosiveness Test	Flame Retardancy Test
IEC 61034, EN 50268	IEC 60754, EN 50267	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: TS EN 60794-3-12

TB-NMA-SHFJ

Part Number	Core Type	Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)
4.294.0.3.1.0900.0.0002	SM G.652.D	2	4.6	22
4.294.0.3.1.0900.0.0004	SM G.652.D	4	5.1	27
4.294.0.3.1.0900.0.0006	SM G.652.D	6	5.7	32
4.294.0.3.1.0900.0.0008	SM G.652.D	8	6.6	42
4.294.0.3.1.0900.0.0012	SM G.652.D	12	7.2	50
4.294.0.3.1.0900.0.0024	SM G.652.D	24	9.1	76

Part Number	Core Type	Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)
4.294.0.3.1.0625.0.0002	OM1	2	4.6	22
4.294.0.3.1.0625.0.0004	OM1	4	5.1	27
4.294.0.3.1.0625.0.0006	OM1	6	5.7	32
4.294.0.3.1.0625.0.0008	OM1	8	6.6	42
4.294.0.3.1.0625.0.0012	OM1	12	7.2	50
4.294.0.3.1.0625.0.0024	OM1	24	9.1	76

Part Number	Core Type	Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)
4.294.0.3.1.0502.0.0002	OM2	2	4.6	22
4.294.0.3.1.0502.0.0004	OM2	4	5.1	27
4.294.0.3.1.0502.0.0006	OM2	6	5.7	32
4.294.0.3.1.0502.0.0008	OM2	8	6.6	42
4.294.0.3.1.0502.0.0012	OM2	12	7.2	50
4.294.0.3.1.0502.0.0024	OM2	24	9.1	76

Part Number	Core Type	Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)
4.294.0.3.1.0503.0.0002	OM3	2	4.6	22
4.294.0.3.1.0503.0.0004	OM3	4	5.1	27
4.294.0.3.1.0503.0.0006	OM3	6	5.7	32
4.294.0.3.1.0503.0.0008	OM3	8	6.6	42
4.294.0.3.1.0503.0.0012	OM3	12	7.2	50
4.294.0.3.1.0503.0.0024	OM3	24	9.1	76

Part Number	Core Type	Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)
4.294.0.3.1.0504.0.0002	OM4	2	4.6	22
4.294.0.3.1.0504.0.0004	OM4	4	5.1	27
4.294.0.3.1.0504.0.0006	OM4	6	5.7	32
4.294.0.3.1.0504.0.0008	OM4	8	6.6	42
4.294.0.3.1.0504.0.0012	OM4	12	7.2	50
4.294.0.3.1.0504.0.0024	OM4	24	9.1	76