

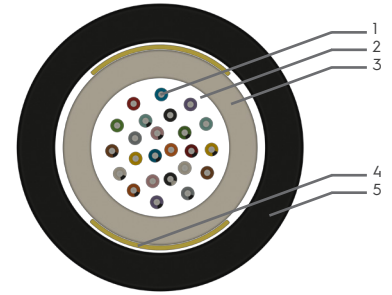
Fiber Optic Cables

microSLT-NMA-SHFJ-(AY06)

U-DQ(ZN)H

Microduct, single loose tube, non-metallic armor fiber optic cable.

RoHS REACH CE



Application

- Easy and fast installation due to its small diameter and light construction.
- Suitable for pushing, blowing method.
- Indoor and duct type applications; low smoke, zero halogen.
- Problem-free use in power lines due to its non-metallic construction.
- In network systems, MAN, WAN, LAN applications.
- As a backbone cable in FTTx systems.
- Due to its thin construction, the cable could be used as an indoor cable.

Cable Construction

- 1 - Optical fiber core ¹
- 2 - Waterproof thixotropic jelly
- 3 - PBT Tube
- 4 - Non-metallic strength member (Aramid yarn)
- 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	Max. 650 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	Max. 200 N	Δα ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	200 N / 100 mm, max. 15 min.	Δα ≤ 0.05 dB, No damage
Impact	IEC 60794-1-2-E4	1 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	-40°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°C to +60°C
Fixed	15 x cable Ø	Transport	-40°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	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

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Part Number	Core Type	Fiber Count	Tube Count	Tube Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)
3.208.1.6.3.0900.0.0002	SM G.652.D	2	1	2.8	4.1	17
3.208.1.6.3.0900.0.0004	SM G.652.D	4	1	2.8	4.1	17
3.208.1.6.3.0900.0.0006	SM G.652.D	6	1	2.8	4.1	17
3.208.1.6.3.0900.0.0008	SM G.652.D	8	1	2.8	4.1	17
3.208.1.6.3.0900.0.0012	SM G.652.D	12	1	2.8	4.1	17
3.208.1.6.3.0900.0.0016	SM G.652.D	16	1	3.8	5.1	25
3.208.1.6.3.0900.0.0020	SM G.652.D	20	1	3.8	5.1	25
3.208.1.6.3.0900.0.0024	SM G.652.D	24	1	3.8	5.1	25

Part Number	Core Type	Fiber Count	Tube Count	Tube Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)
3.208.1.6.3.0971.0.0002	SM G.657.A1	2	1	2.8	4.1	17
3.208.1.6.3.0971.0.0004	SM G.657.A1	4	1	2.8	4.1	17
3.208.1.6.3.0971.0.0006	SM G.657.A1	6	1	2.8	4.1	17
3.208.1.6.3.0971.0.0008	SM G.657.A1	8	1	2.8	4.1	17
3.208.1.6.3.0971.0.0012	SM G.657.A1	12	1	2.8	4.1	17
3.208.1.6.3.0971.0.0016	SM G.657.A1	16	1	3.8	5.1	26
3.208.1.6.3.0971.0.0020	SM G.657.A1	20	1	3.8	5.1	26
3.208.1.6.3.0971.0.0024	SM G.657.A1	24	1	3.8	5.1	25