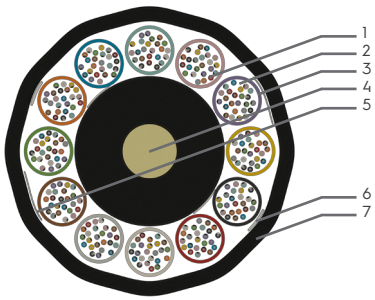
Fiber Optic Cables

mdMLT-SJ-(D)

A-DQ2Y

Microduct, multi loose tube fiber optic cable.

RoHS REACH CE



Application

· Easy and fast installation due to its small diameter and light construction.
· Suitable for pushing, blowing method.
· 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.

Cable Construction

1 - Optical fiber core [1]
2 - Waterproof thixotropic jelly
3 - PBT Tube
4 - Non-metallic central strength member (FRP)
5 - Water-swellable yarn
6 - Ripcord
7 - UV resistant polyethylene (HDPE) black outer jacket

Mechanical and Environmental Characteristics

	Test Standard	Specified Value	Acceptance Criteria
Maximum Installation Tension [2]	IEC 60794-1-2-E1	Max. 650 N (96 FO, 144 FO Max. 1000 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	700 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
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	-30°C to +60°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

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Part Number	Core Type	Fiber Count	Tube Count	Filler Count	Tube Diameter (mm)	FRP Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)
3.229.0.6.1.0900.0.0012	SM G.652.D	12	1	5	1.6	1.65	6.0	31
3.229.0.6.1.0900.0.0024	SM G.652.D	24	2	4	1.6	1.65	6.0	31
3.229.0.6.1.0900.0.0036	SM G.652.D	36	3	3	1.6	1.65	6.0	30
3.229.0.6.1.0900.0.0048	SM G.652.D	48	4	2	1.6	1.65	6.0	30
3.229.0.6.1.0900.0.0060	SM G.652.D	60	5	1	1.6	1.65	6.0	30
3.229.0.6.1.0900.0.0072	SM G.652.D	72	6	0	1.6	1.65	6.0	29
3.229.0.6.1.0900.0.0096	SM G.652.D	96	8	0	1.6	2.2	7.2	38
3.229.0.6.1.0900.0.0120	SM G.652.D	120	10	0	1.6	2.2	8.3	49
3.229.0.6.1.0900.1.0144	SM G.652.D	144	6	0	2.3	2.5	8.3	50
3.229.0.6.1.0900.0.0144	SM G.652.D	144	12	0	1.5	2.2	8.6	53
3.229.0.6.1.0900.1.0192	SM G.652.D	192	8	0	2.3	2.5	9.8	68
3.229.0.6.1.0900.0.0288	SM G.652.D	288	12	0	2.3	2.5	13.0	119

Part Number	Core Type	Fiber Count	Tube Count	Filler Count	Tube Diameter (mm)	FRP Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)
3.229.0.6.1.0972.0.0012	SM G.657.A2	12	1	5	1.6	1.65	6.0	31
3.229.0.6.1.0972.0.0024	SM G.657.A2	24	2	4	1.6	1.65	6.0	31
3.229.0.6.1.0972.0.0036	SM G.657.A2	36	3	3	1.6	1.65	6.0	31
3.229.0.6.1.0972.0.0048	SM G.657.A2	48	4	2	1.6	1.65	6.0	30
3.229.0.6.1.0972.0.0060	SM G.657.A2	60	5	1	1.6	1.65	6.0	30
3.229.0.6.1.0972.0.0072	SM G.657.A2	72	6	0	1.6	1.65	6.0	30
3.229.0.6.1.0972.0.0096	SM G.657.A2	96	8	0	1.6	2.2	7.2	38
3.229.0.6.1.0972.0.0120	SM G.657.A2	120	10	0	1.6	2.2	8.3	50
3.229.0.6.1.0972.1.0144	SM G.657.A2	144	6	0	2.3	2.5	8.3	52
3.229.0.6.1.0972.0.0144	SM G.657.A2	144	12	0	1.5	2.2	8.6	54
3.229.0.6.1.0972.1.0192	SM G.657.A2	192	8	0	2.3	2.5	9.8	70
3.229.0.6.1.0972.1.0288	SM G.657.A2	288	12	0	2.3	2.5	12.8	120