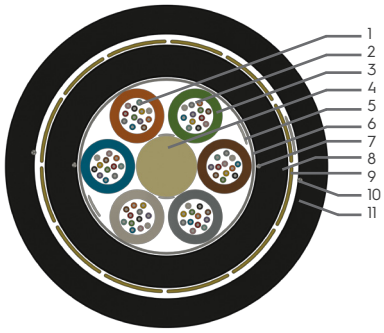
ETK Kablo

Fiber Optic Cables
MLT-NMA-DJ-(AY27)-(D)

RoHS REACH CE

A-DQ2Y(ZN)2Y

Multi loose tube, non-metallic armor fiber optic cable.



Application

· Fast and easy application due to its light construction.
· Direct burial and duct type applications.
· Suitable for pushing, blowing method.
· Problem-free use in power lines due to its non-metallic construction.
· In MAN, WAN, LAN applications or as a backbone cable for GSM, CATV, SMATV networks.

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 - Core Wrapping (Water-swellable Tape)
7 - Ripcord
8 - UV resistant polyethylene (LLDPE) black inner jacket.
9 - Non-metallic strength member (Aramid yarn)
10- Ripcord
11- 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	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
Operation	20 x cable Ø
Fixed	15 x cable Ø

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

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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)
3.231.1.6.1.1900.0.0002	SM G.652.D	2	1	5	2.05	2.2	12.6	112
3.231.1.6.1.1900.1.0004	SM G.652.D	4	1	5	2.05	2.2	12.6	112
3.231.1.6.1.1900.0.0004	SM G.652.D	4	2	4	2.05	2.2	12.6	113
3.231.1.6.1.1900.1.0006	SM G.652.D	6	1	5	2.05	2.2	12.6	112
3.231.1.6.1.1900.0.0006	SM G.652.D	6	3	3	2.05	2.2	12.6	113
3.231.1.6.1.1900.1.0008	SM G.652.D	8	1	5	2.05	2.2	12.6	112
3.231.1.6.1.1900.2.0008	SM G.652.D	8	2	4	2.05	2.2	12.6	113
3.231.1.6.1.1900.0.0008	SM G.652.D	8	4	2	2.05	2.2	12.6	114
3.231.1.6.1.1900.1.0012	SM G.652.D	12	1	5	2.25	2.2	13.3	124
3.231.1.6.1.1900.2.0012	SM G.652.D	12	3	3	2.05	2.2	12.6	113
3.231.1.6.1.1900.0.0012	SM G.652.D	12	6	0	2.05	2.2	12.6	115
3.231.1.6.1.1900.1.0016	SM G.652.D	16	2	4	2.05	2.2	12.6	112
3.231.1.6.1.1900.0.0016	SM G.652.D	16	4	2	2.05	2.2	12.6	114
3.231.1.6.1.1900.0.0020	SM G.652.D	20	5	1	2.05	2.2	12.6	114
3.231.1.6.1.1900.1.0024	SM G.652.D	24	2	4	2.25	2.2	13.3	124
3.231.1.6.1.1900.3.0024	SM G.652.D	24	3	3	2.05	2.2	12.6	112
3.231.1.6.1.1900.2.0024	SM G.652.D	24	4	2	2.05	2.2	12.6	113
3.231.1.6.1.1900.0.0024	SM G.652.D	24	6	0	2.05	2.2	12.6	115
3.231.1.6.1.1900.0.0032	SM G.652.D	32	4	2	2.05	2.2	12.6	113
3.231.1.6.1.1900.1.0036	SM G.652.D	36	3	3	2.25	2.2	13.3	124
3.231.1.6.1.1900.0.0036	SM G.652.D	36	6	0	2.05	2.2	12.6	114
3.231.1.6.1.1900.1.0048	SM G.652.D	48	4	2	2.25	2.2	13.3	125
3.231.1.6.1.1900.0.0048	SM G.652.D	48	6	0	2.05	2.2	12.6	114
3.231.1.6.1.1900.0.0060	SM G.652.D	60	5	1	2.25	2.5	13.3	125
3.231.1.6.1.1900.0.0064	SM G.652.D	64	8	0	2.05	2.7	14.4	147
3.231.1.6.1.1900.0.0072	SM G.652.D	72	6	0	2.25	2.5	13.3	125
3.231.1.6.1.1900.0.0096	SM G.652.D	96	8	0	2.25	2.7	14.8	156
3.231.1.6.1.1900.0.0120	SM G.652.D	120	10	0	2.25	2.7	16.2	185
3.231.1.6.1.1900.0.0144	SM G.652.D	144	12	0	2.25	2.7	17.8	222
3.231.1.6.1.1900.0.0192	SM G.652.D	192	16	2	2.25	2.5	17.9	215
3.231.1.6.1.1900.0.0216	SM G.652.D	216	18	0	2.25	2.5	17.9	216