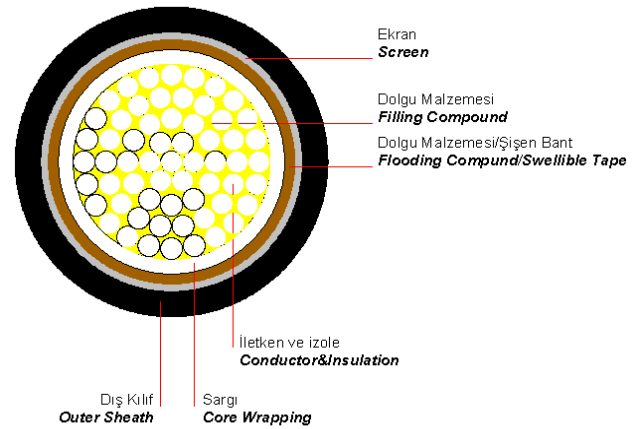


JELLY FILLED UNARMORED TELEPHONE CABLES

Application

These type cables are used for distribution and long distance networks and installed for secondary and primary networks. The cable structure is completed by the application of a suitable core wrapping material, flooding compound, copolymer coated moisture barrier and overall the black outer jacketing. Outer jacketing material is MDPE LDPE or HDPE in accordance with ASTM D 1248. Outer jacket sequentially marked with hot foil printing method.

Construction



Conductor

Solid annealed electrolytic copper. The conductor size 0.4- 0.5- 0.6 and 0.9 mm

Insulation

Colored foam skin polyethylene insulation and solid insulation in according to ASTM 1248, foam skin insulation with cellular polyethylene covered with skin layer of high-density polyethylene compound. Solid insulation made medium or high-density polyethylene compound.

Color Coding

Fully color-coding.

Please refer to annex for detailed information of pair color code and sub units color codes.

Twisting/Quadding

Two or four insulated wire twisted together. The twist length specially designed to minimize the capacitance unbalance and cross talk.

Cable Core

Twisted wires are assembled to form substantially cylindrical groups of ten pairs (called unit). Super units that are assembled with suitable number of units, which are binded with durable colored tapes and cabled to complete cable core.

Filling Compound

The water resistance-filling compound, which is 85°C drop point, is applied to the cable core to provide water resistance.

Core Wrapping

Anon-hydroscopic and dielectric polyester tape is applied helically over the cable core. Applied polyester tape at least overlaps 5%.

Identification

A plastic tape, durable marked with the manufacturer name, year of manufacture, and cable size (if required) is placed under the core wrapping.

Flooding Compound / Water blocking Tape

In order to prevent the water resistance-flooding compound applied over the cable core. In customer request water blocking tape could be applied between core wrapping and aluminum tape in helically or longitudinally

Screen

A single flat aluminum tape (0,2 mm thickness of aluminum) coated both side 50 micron polyethylene film applied longitudinally over core covering with an min 5 mm overlap. In customer request 0,15 mm thickness aluminum tape could be used.

Outer Jacket

The cable core is extruded black low-density or medium density polyethylene in accordance with ASTM D 1248. Outer jacket polyethylene is include %2,5 $\pm$ 0,5carbon black for sunrise resistance. The color of outer sheath is black.

Length Marking

Sequentially numbered lengths marking are printed on the outside of cable jacket with hot foil printing method. The outer sheath marked in every one meter as follows;
TURKUAZ Cable <year of manufacturing> <cable size and diameter of copper> <customer name> length marking in meter> <telephone handset>

Packing

Shipment will be done with non-returnable wooden drums with protection.

Type Code of Cables

A-02YF(L) 2Y mxn

Refer to the type code of the copper cable for the description of the cable code.

Number of Pair	Outer Diameter of Cable (mm)	Weight of Copper Kg/km (Nom)	App. Cable Weight (Kg/km)	Reel Length (m) $\pm$ %5
0,4 mm Conductor				
10	8,5	22,6	78	2000
20	10,0	45,3	121	2000
30	11,5	67,9	162	2000
50	13,5	115,5	240	1000
100	17,0	231,0	426	1000
150	21,0	346,5	623	500
200	23,5	462,0	807	500
300	28,0	693,0	1169	500
400	32,0	924,1	1525	500
600	38,0	1386,1	2218	500
900	45,5	2079,1	3242	400
1200	51,5	2772,2	4275	400
1500	57,5	3456,2	5309	300
1800	62,5	4158,2	6342	300
2400	71,5	5544,3	8327	250
0,5 mm Conductor				
6	7,5	21,5	80	2000
10	9,5	35,5	104	2000
20	11,5	71,1	167	2000
30	13,0	106,6	227,	1000
50	15,5	181,2	348	1000
100	20,5	362,4	634	500
150	25,0	543,6	932	500
200	28,5	724,8	1216	500
300	34,0	1087,2	1780	500
400	38,5	1449,6	2333	500
600	45,5	2174,3	3352	500
900	54,5	3261,5	4939	400
1200	62,5	4348,7	6525	300
0,6 mm Conductor				
10	11,0	51,2	138	1200
20	13,5	102,3	228	1200
30	15,5	153,5	318	1200
50	19,0	260,9	492	1200
100	25,5	521,8	918	800
150	31,0	782,8	1389	400
200	35,5	1043,7	1798	400
300	42,5	1565,5	2636	400
400	48,5	2087,4	3468	400
600	58,0	3131,1	5068	400
0,9 mm Conductor				
10	14,5	115,2	260	1200
20	18,5	230,2	456	1200
30	21,5	345,3	646	800
50	27,0	587,1	1054	800
100	36,5	1174,1	1998	400
150	45,5	1761,2	3052	400
200	52,5	2348,3	4042	400
300	63,0	3522,4	5940	400

Other delivery length is available in customer request

Electrical Requirements at 20°C

Conductor Size			0,4	0,5	0,6	0,9
Resistance (Ω/km)		Max	150,0	95,9	66,6	30,0
		Avg.	144,0	92,1	63,9	28,0
Resistance Unbalance(%)		Max	3,0		3,0	
		Avg.	1,0		1,0	
Mutual Capacitance @800 Hz (nf/km)		Avr	52			
		Max	56			
Capacitance Unbalance PF/ 500 mt	Between pair	Avg.	125		60	
		Max	500		325	
	Between Adjacent Pairs	Avg.	125		60	
		Max	375		370	
	To Ground	Avg.	500		325	
		Max	2000		1300	
Insulation Resistance 500 V DC (G Ohm km)		Min	10		15	
Dielectric Strength (KV DC for 1 min) Pair to Pair		Min	1,4		2,0	
Dielectric Strength (KV DC for 3 sec.) Pair to Ground		Min	6		10	