

# Jelly Filled Double Sheathed Underground Telephone Cables

## Description

Used for distribution and long distance networks and installed for direct buried applications. The cable structure is completed by the application of a suitable core wrapping material, flooding compound, copolymer coated moisture barrier and overall the black inner and outer jacketing. Inner/outer jacketing material is MDPE LDPE or HDPE in accordance with ASTM D 1248. These types of cables have excellent mechanical performance.



### Conductor

Solid annealed copper electrolytic copper. The conductor sizes are 0.4- 0.5- 0.6 or 0.9 mm

### Color Coding

For fully color-coding please refer to annex for detailed information of pair color code and sub unit color codes.

### Insulation

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

### 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 (units). Super units are assembled by suitable number of units, which are banded by durable colored tapes and cabled to complete cable core.

### Filling Compound

The water resistance-filling compound, which has 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 by 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 a min 5 mm overlap. In customer request 0,15 mm thick aluminum tape could be used.

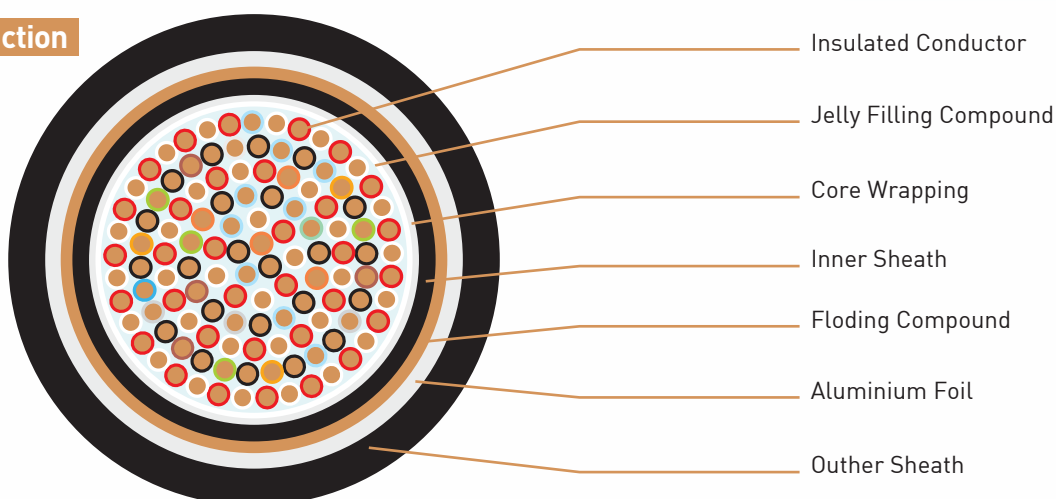
### Inner Jacket

An extruded black low-density or medium-density polyethylene in accordance with ASTM D 1248 encloses the cable core.

### Outer Jacket

Over the corrugated steel tape, outer jacket is extruded black low-density polyethylene or medium density polyethylene in accordance with ASTM D 1248. Outer jacket polyethylene includes %2,5 ±0,5 carbon black for sunrise resistance. The color of outer sheath is black.

## Cable Construction



Insulated Conductor

Jelly Filling Compound

Core Wrapping

Inner Sheath

Flooding Compound

Aluminium Foil

Outer Sheath

## Type Code of Cable

A-02YF(L) 2Y mxn  
Refer to the type code of the copper cable for the description of the cable code.

## Packing

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

## Length Marking

Sequentially numbered lengths marking are printed on the outside of cable jacket by hot foil printing method. The outer sheath marked in each meter as follows;

< TURKUAZ Cable > < year of manufacturing > < cable size and diameter of copper > < customer name > < length marking in meter > < telephone handset >

### 0,4 mm Conductor

Number of Pair	Outer Diameter of Cable mm	Weight of Copper Kg/km (Nom)	App. Cable Weight (Kg/Km)	Reel Length (m)* ± %5
10	9,9	22,6	105	2.000
20	11,6	45,3	150	2.000
30	12,9	67,9	190	2.000
50	15,0	115,5	277	1.000
100	18,7	231,0	470	1.000
150	22,6	346,5	682	500
200	25,3	462,0	875	500
300	30,5	693,0	1.270	500
400	34,0	924,1	1.632	500
600	4,5	1.386,1	2.355	500
900	48,5	2.079,1	3.464	400
1.200	55,2	2.772,2	4.560	400
1.500	61,0	3.456,2	5.624	300
1.800	66,5	4.158,2	6.723	300

### 0,5 mm Conductor

Number of Pair	Outer Diameter of Cable mm	Weight of Copper Kg/km (Nom)	App. Cable Weight (Kg/Km)	Reel Length (m)* ± %5
10	11,4	35,5	130	2.000
20	13,4	71,1	200	2.000
30	15,0	106,6	270	1.000
50	17,6	181,2	390	1.000
100	23,0	362,4	690	500
150	27,5	543,6	1.005	500
200	31,0	724,8	1.314	500
300	37,0	1.087,2	1.902	500
400	41,5	1.449,6	2.470	500
600	48,0	2.174,3	3.515	500
900	57,5	3.261,5	5.160	400
1.200	65,5	4.348,7	6.780	300

### 0,6 mm Conductor

Number of Pair	Outer Diameter of Cable mm	Weight of Copper Kg/km (Nom)	App. Cable Weight (Kg/Km)	Reel Length (m)* ± %5
10	12,7	51,2	180	1.200
20	15,0	102,3	280	1.200
30	17,5	153,5	370	1.200
50	20,5	260,9	565	1.200
100	28,0	521,8	1.040	800
150	33,0	782,8	1.490	400
200	38,0	1.043,7	1.940	400
300	45,5	1.565,5	2.795	400
400	51,0	2.087,4	3.670	400

### 0,9 mm Conductor

Number of Pair	Outer Diameter of Cable mm	Weight of Copper Kg/km (Nom)	App. Cable Weight (Kg/Km)	Reel Length (m)* ± %5
10	16,0	115,2	290	1.200
20	20,0	230,2	500	1.200
30	23,5	345,3	700	800
50	29,5	587,1	1.130	800
100	39,0	1.174,1	2.090	400
150	48,5	1.761,2	3.150	400
200	55,0	2.348,3	4.150	400
300	66,5	3.522,4	6.070	400

(\*) Other delivery length is available in customer request