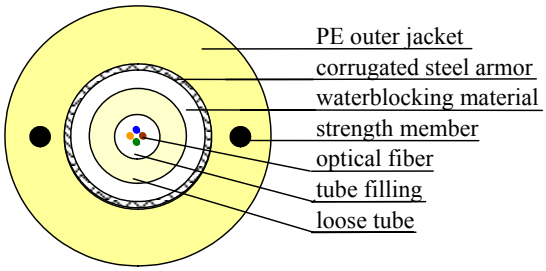
Teldor Wires and Cables Co.
Kibbutz Ein Dor 19335, Israel
Tel. 972-4-677-0555, Fax 972-4-677-0650
URL: www.teldor.com

Armored Single-Loose-Tube Fiberoptic Cables

Prepared by: Tuvia Liberman

1. Applications

1.1. Long-distance outside plant
1.2. CATV as well as data communications use
1.3. Direct burial or aerial installation



2. Cable Description

See schematic drawing (not to scale) of the cable above right

2.1. 2-24 optical fibers: Singlemode meeting or exceeding ITU-T G.652 or ITU-T G.655 specifications; Multimode meeting or exceeding IEC 60793 specifications.
2.2. A central PBT tube, containing up to 24 fibers. The fibers are color coded according to the table below. The central tube is filled with a thixotropic gel to prevent the ingress of water.

Color Code of Fibers

Fiber Number	Color	Fiber Number	Color
1	Blue	7	Red
2	Orange	8	Black
3	Green	9	Yellow
4	Brown	10	Violet
5	Grey	11	Pink
6	White	12	Turquoise

2.3. A layer of waterblocking material is applied over the central tube.
2.4. A corrugated steel armor is longitudinally applied over the cable core.
2.5. 2 steel rods acting as longitudinal strength members are placed in parallel to the central tube
2.6. A black polyethylene outer jacket is extruded over the armored cable core and steel rods.
2.7. A ripcord is conveniently located beneath the armor to facilitate removal during installation.
2.8. The cable jacket is printed with white embossed characters. Printing text is per customer request. A meter mark is printer every meter with an accuracy of ±1%.

3. Standards

3.1. Cables tested according to TIA/EIA-455 and IEC-60794-1
3.2. Teldor is an ISO 9001:2000 company
3.3. Color codes as per EIA/TIA-598

4. Cable Mechanical and Environmental Characteristics

4.1 Mechanical Characteristics

TEST	SPECIFICATION	TEST PROCEDURE	
		IEC-60794-1 Test Method	TIA/EIA-455 FOTP No.
Tensile Loading - short term	3000 N	E1	33
Tensile Loading - long term	1500 N	E1	33
Compressive Loading	3000 N	E3	41
Repeated Impact Testing	N = 20	E4	25
Twist Test	L = 1 m	E7	85
Cyclic Flexing	25 Flex cycles	E6	104
Operating Temperature Range	-40°C - +70°C,	F1	3
Water Penetration	L_{cable} = 3 m H_{water} = 1 m t = 24 Hrs	F5	82

4.2. General Characteristics

Fiber Count	Nominal Cable Outer Diameter (mm)	Nominal Cable Weight (kg./km)
2-12	11.0	132
14-24	13.0	170

5. Part Number for ordering

*9YSR3□1F00 is the family P/N. When specifying a specific fiber type and count, replace "□" with the Teldor fiber code, and "F" with the number of fibers in the central tube.