

## Armored Single-Loose-Tube Fiberoptic Cables

Product P/N: 9YSA3□1#00\*

Revision 1.0

Date 13/11/2005

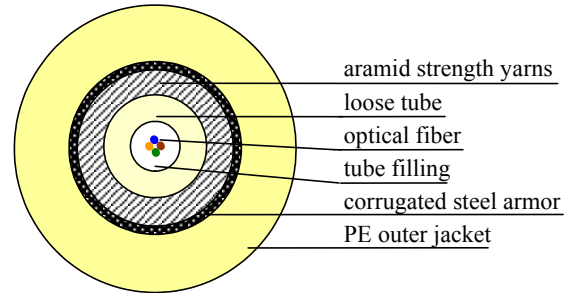
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Prepared by:

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### 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 aramid strength yarns is helically applied over the central tube.
- 2.4. A corrugated steel armor is longitudinally applied over the inner jacket.
- 2.5. A black polyethylene outer jacket is extruded over the armored cable core.
- 2.6. A ripcord is conveniently located beneath the corrugated steel armor to facilitate removal during installation
- 2.7. A meter mark is printed every meter with an accuracy of  $\pm 1\%$ .

### 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



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### 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	1000 N	E1	33
Tensile Loading - long term	600 N	E1	33
Compressive Loading	1000 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 <sub>cable</sub> = 3 m H <sub>water</sub> = 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	8.5	125
14-24	9.6	156

### 5. Part Number for ordering

\*9YSA3□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.

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