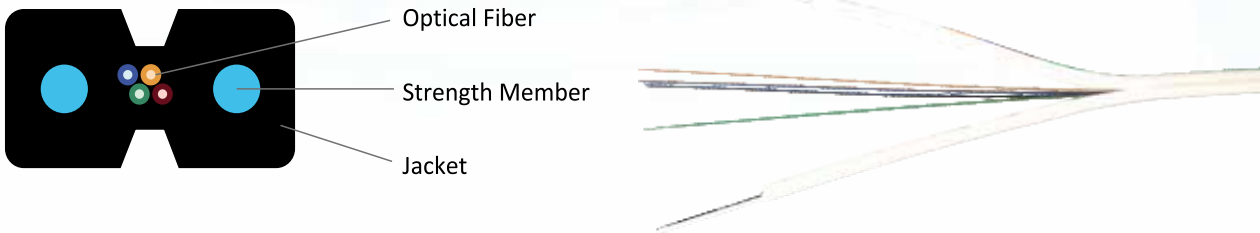


## Cable Construction

### Cable cross-section



### Cable Design

ATC drop flat cable is constructed with Two or Four single mode fiber (ITU-T G.657A) protected by dielectric strength member made of fiberglass reinforced plastic (FRP) and a LSZH outer jacket.

Ideal for use in FTTx applications between the building's main telecommunications room and the apartment/office consolidation point.

Utilizing a 250mm fiber, the cable unit is suitable for use with industry standard connector.

PRIMARY COATING WITH COLOR LAYER	250 ± 15um
DI-ELECTRIC STRENGTH MEMBER	FRP
OUTER JACKET	LSZH
Color	Black or Ivory

### MECHANICAL / ENVIRONMENTAL PROPERTIES:

- Robust and lightweight.
- Color coded fibers for easy identification.
- LSZH jacket for internal use.
- Standard cable length of 1 km.

Storage Temperature	-10 to 75°C
Operating Temperature	-10 to 75°C
Fire Performance	IEC 332-1

Fiber Count	Diameter	Weight	Maximum Tensile Load		Minimum Bend Radius	
			Short Term	Long Term	Loaded	Installed
2	3.0 mm x 2.0 mm Flat	8 Kg/Km	100N	33N	6 mm	15 mm
4	3.0 mm x 2.0 mm Flat	8 Kg/Km	100N	33N	6 mm	15 mm



## Mechanical & Environmental Characteristics

**Cable Bending Radius** 10 x cable diameter (No Load) 20 x cable diameter (Full Load)

**Operating temperature range** - 10 °C to +70 °C

## Mechanical & Environmental Characteristics Test Standards

No	Item	IEC Standard
1	Tensile Strength	IEC 60794-1-E1
2	Crush Test	IEC 60794-1-E3
3	Impact Test	IEC 60794-1-E4
4	Repeated Bending	IEC 60794-1-E6
5	Torsion	IEC 60794-1-E7
6	Water Penetration	IEC 60794-1-F5

The cable is fully compliant with ITU-T G.652.D, G655 or G657 Fiber specifications and other relevant specifications such as IEC 60793 and IEC 60794 for the Fiber and construction parameter/tests

## Packing and Marking

### Packing

Each Single length of cable shall be reeled on Fumigated Wooden Drum suitable for long distance shipment.

Covered by plastic buffer sheet.

Sealed by strong wooden battens.

At least 1 m of inside end of cable will be reserved for testing.

Drum length : Nominal drum length is 3 Km or 6 Km ± 3% or as agreed.

### Cable Identification documents

Test report to be provided with each drum.

### Drum Marking

#### Cable Drum

Manufacturer's Name.

Roll-direction arrow.

Cable outer end position indicating arrow.

Optical Fiber Cable - Not to be laid flat.

Caution plate indicating the correct method for loading, unloading.

Other customer information such as contract no. project no. and delivery destination (if needed).

#### Marking Plate

Product Name

Cable type and size

Drum length

Gross / Net weight in kilograms

Drum number in meters

Manufacturer's name

Manufacturing year and month

Project number, contract number or purchase order number (if needed)

