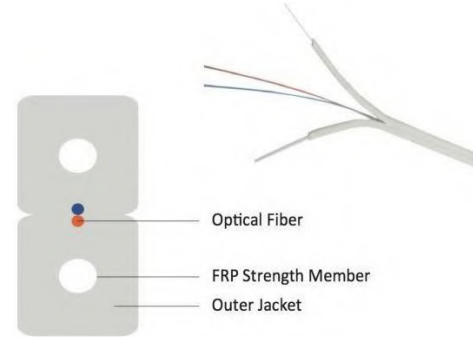


## Fiber Optic, Drop Cable, Indoor, 1-4 fibers

### Features and Benefits

- Fiber-count 1, 2 and 4 fibers
- Robust and lightweight
- LSZH jacket for internal use
- Lightweight construction
- Suitable for tight corners and bends
- Compact diameter
- Color-coded fibers for easy identification
- Compatible with field terminated connectors
- Standard cable length of 1km



### Description

Avalon flat drop indoor cables are constructed with a flat profile jacket containing one, two or four fibers. The optical fibers contained in the center of the cable are protected by dielectric strength members made of fiberglass reinforced plastic (FRP) embedded in the jacket on opposite sides of the fibers. The FRP strength members add mechanical strength to the low-profile fiber optic cable and protect the 250  $\mu$ m optical fibers against stress during installation and after installation.

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

The cable is suitable for termination with a quick assembly connector or can be fusion or mechanical spliced with standard pigtailed.

### Application

- FTTx applications
- CCTV

### Standard

- ITU.T G.652D / G.657A/B
- IEC 60332-1-2, IEC 60754-1,2 & IEC 61034-2

### Specifications

| Fiber Type                 | Unit                   | OS2<br>G.652D |             | G.657 A1/A2  |             |             | G.657 B1/B2  |             |             |
|----------------------------|------------------------|---------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|
|                            |                        | 1310          | 1550        | 1310         | 1550        | 1625        | 1310         | 1550        | 1625        |
| Wavelength                 | nm                     | 1310          | 1550        | 1310         | 1550        | 1625        | 1310         | 1550        | 1625        |
| Attenuation                | dB/km                  | $\leq 0.40$   | $\leq 0.30$ | $\leq 0.36$  | $\leq 0.21$ | $\leq 0.22$ | $\leq 0.35$  | $\leq 0.21$ | $\leq 0.22$ |
| Chromatic dispersion       | ps/nm.km               | $\leq 3.5$    | $\leq 18$   | $\leq 3.5$   | $\leq 18$   | $\leq 21$   | $\leq 3.5$   | $\leq 18$   | $\leq 21$   |
| Zero dispersion wavelength | nm                     | 1300 ~ 1324   |             | 1300 ~ 1324  |             |             | 1300 ~ 1324  |             |             |
| Zero dispersion slope      | ps/nm <sup>2</sup> .km | $\leq 0.092$  |             | $\leq 0.092$ |             |             | $\leq 0.092$ |             |             |
| PMD                        | ps/ $\sqrt$ km         | $\leq 0.2$    |             | $\leq 0.2$   |             |             | $\leq 0.2$   |             |             |
| Cut-off wavelength         | nm                     | $\leq 1260$   |             | $\leq 1260$  |             |             | $\leq 1260$  |             |             |

|                               |                          |          |          |           |          |          |         |          |        |
|-------------------------------|--------------------------|----------|----------|-----------|----------|----------|---------|----------|--------|
| Mode-field diameter           | μm                       | 9.2±0.4  | 10.4±0.5 | 9.2±0.5   | 10.5±0.8 |          | 9.2±0.4 | 10.5±0.8 |        |
| Macro Bend Loss               | 30mm radius x 100 turns  | -        | ≤ 0.05   | -         | -        |          | -       |          |        |
|                               | 15mm radius x 100 turns  | -        | -        | -         | ≤ 0.25   | ≤ 0.03   | -       | ≤ 0.03   | ≤ 0.03 |
|                               | 10mm radius x 100 turns  | -        | -        | -         | ≤ 0.75/  | ≤ 0.1    | -       | ≤ 0.1/   | ≤ 0.08 |
|                               | 7.5mm radius x 100 turns | -        | -        | -         | -        |          | -       | ≤ 0.5/   | ≤ 0.15 |
| Core/Clad Concentricity Error | μm                       | ≤ 0.6    |          | ≤ 0.5     |          | ≤ 0.6    |         |          |        |
| Cladding Diameter             | μm                       | 125 ± 1  |          | 125 ± 0.7 |          | 125 ± 1  |         |          |        |
| Cladding Non-circularity      | %                        | ≤ 1.0    |          | ≤ 1.0     |          | ≤ 1.0    |         |          |        |
| Coating Diameter              | %                        | 245 ± 15 |          | 245 ± 15  |          | 245 ± 15 |         |          |        |
| Proof Test Level              | Kpsi                     | ≥ 100    |          | ≥ 100     |          | ≥ 100    |         |          |        |
| Fiber curl                    | m                        | ≥ 4      |          | ≥ 4       |          | ≥ 4      |         |          |        |

## Cable Construction

|                             |                     |
|-----------------------------|---------------------|
| Primary Coating Color Layer | 250 ± 15μm          |
| Number of fibers per tube   | FRP Ø 0.58 ± 0.05mm |
| Outer jacket                | LSZH                |

## Color of Buffer

|                   |           |             |            |            |
|-------------------|-----------|-------------|------------|------------|
| 1 core drop cable | 01 – Blue | -           | -          | -          |
| 2 core drop cable | 01 – Blue | 02 – Orange | -          | -          |
| 4 core drop cable | 01 – Blue | 02 – Orange | 03 - Green | 04 - Brown |

## Environmental Data

|                   |                   |
|-------------------|-------------------|
| Temperature range | Value             |
| Service           | - 40° C to +60° C |

## Physical Specifications

| No. of fibers | Fiber count | *Cable diameter LSZH<br>mm | Nominal weight<br>Kg/km | Maximum tensile load |                | Crush resistance   |                   | Minimum bend radius |      |           |      |
|---------------|-------------|----------------------------|-------------------------|----------------------|----------------|--------------------|-------------------|---------------------|------|-----------|------|
|               |             |                            |                         | Short term<br>N      | Long term<br>N | Short term<br>N/cm | Long term<br>N/cm | Loaded              |      | Installed |      |
|               |             |                            |                         |                      |                |                    |                   | 652D                | 657A | 652D      | 657A |
| White         | 1,2 or 4    | 2.0x3.0 ± 0.2mm            | 8                       | 80                   | 40             | 1000               | 500               | 60                  | 50   | 30        | 25   |

\*Denotes nominal value for LSZH Jacketed Cable

## Part Numbers

| Part code            | Description                                                                  |
|----------------------|------------------------------------------------------------------------------|
| ANFTTH-SM-YY-IN-LSZH | Single-Mode FTTH Flat Indoor Fiber Optic Drop Cable - G.657.A1 - LSZH Sheath |

\* YYY = 01,02 and 04 core ; Standard reel length 1000m