

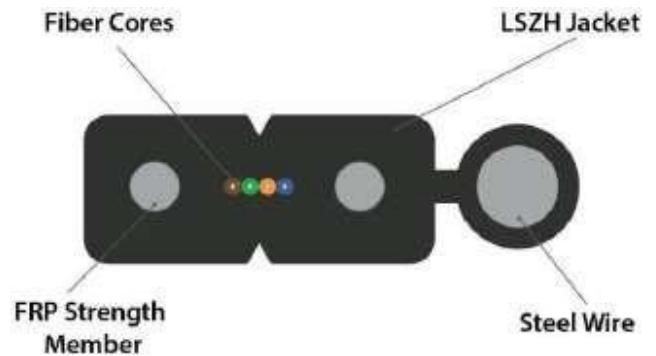


## Fiber Optic, Drop Cable, Outdoor, 1-4 Fibers



### Features and Benefits

- Fiber-count 1, 2 and 4 fibers
- Robust and lightweight
- LSZH jacket for internal/outdoor use
- Lightweight construction
- Suitable for tight corners and bends
- Compact diameter
- Colour-coded fibers for easy identification
- Compatible with field terminated connectors
- Designed for easy stripping with or without tools
- Standard cable length of 1 Km



### Description

Avalon flat FTTH / drop outdoor cables are constructed with a rectangle profile jacket containing one, two or four fibers. The optical fibers contained in the center of the cable are protected by steel wire strength members embedded in the jacket on opposite sides of the fibers.

The steel wire strength members add mechanical strength to the low-profile fiber optic cable and protect the 250  $\mu\text{m}$  optical fibers against stress during installation and after installation.

Ideal for use in FTTx applications between the buildings main telecommunications room and the apartment/office consolidation point and they can also be used for FTTD applications.

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










**Specifications**

| Fiber Type                   |                          | Unit                    | G.657 A1/A2 |            |        |
|------------------------------|--------------------------|-------------------------|-------------|------------|--------|
| Wavelength                   |                          | nm                      | 1310        | 1550       | 1625   |
| Attenuation                  |                          | dB/km                   | ≤ 0.36      | ≤ 0.21     | ≤ 0.22 |
| Chromatic dispersion         |                          | Ps/nm.km                | ≤ 3.5       | ≤ 18       | ≤ 21   |
| Zero dispersion wavelength   |                          | nm                      | 1300 ~ 1324 |            |        |
| Zero dispersion slope        |                          | ps/nm <sup>2</sup> . km | ≤ 0.092     |            |        |
| PMD                          |                          | ps/√km                  | ≤ 0.2       |            |        |
| Cut-off wavelength           |                          | nm                      | ≤ 1260      |            |        |
| Mode-field diameter          |                          | μm                      | 9.2 ± 0.5   | 10.5 ± 0.8 |        |
| MacroBend Loss               | 30mm radius x 100 turns  | dB                      | -           | -          |        |
|                              | 15mm radius x 100 turns  |                         | -           | ≤ 0.25     | ≤ 0.03 |
|                              | 10mm radius x 100 turns  |                         | -           | ≤ 0.75     | ≤ 0.1  |
|                              | 7.5mm radius x 100 turns |                         | -           | -          |        |
| Core/Clad ConcentricityError |                          | μm                      | ≤ 0.5       |            |        |
| Cladding Diameter            |                          | μm                      | 125 ± 0.7   |            |        |
| Cladding Non-circularity     |                          | %                       | ≤ 1.0       |            |        |
| Coating Diameter             |                          | %                       | 245 ± 15    |            |        |
| Proof Test Level             |                          | Kpsi                    | ≥ 100       |            |        |
| Fiber curl                   |                          | m                       | ≥ 4         |            |        |



### Cable Construction Details

| Parameter                  | Dimensions  | Type, Colour   |
|----------------------------|---|--|
| Number of Fibers           | 1   | Colour    |
|                            | 2   | Colour     |
|                            | 4   | Colour     |
| Peripheral Strength Member | 0.55 ± 0.05 mm  | FRP Rods   |
| Messenger Wire             | 1.1 ± 0.1 mm  | Coated Steel Wire (2F) / G.I Wire (4F)   |
| Overall Cable Dimensions   | (2.1 x 5.2) ± 0.2 mm                                  | LSZH - Black   |
| Cable Weight/km            | 16 ± 2 kg/km (Nominal) (2F) / 18 kg/km (Nominal) (4F) |  |

### Environmental Data

| Temperature range | Value             |
|-------------------|-------------------|
| Installation      | -20 °C to + 70 °C |
| Operation         | -20 °C to + 70 °C |
| Storage           | -20 °C to + 70 °C |

### Ordering Information

| Part Number         | Description   |
|---------------------|---|
| ANFC-SM-YYC-AR-LSZH | Fiber Optic, Drop Cable, Outdoor, 1-4 Fibers, G.657.A1 LSZH |

\* YYY = 01, 02 and 04 (No. of Cores)

\*Core standard reel length 1000m

