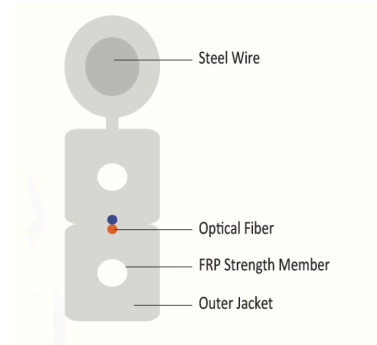


Fiber Optic, Drop cable, indoor, 1-4 fibers

Features and benefits

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



Description

Opterna flat drop outdoor cables are constructed with a flat profile jacket and containing one, two or four fibers. The optical fibers contained in the center of the cable and 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 protects the 250 µm optical fibers against stress during installation and after installation. The flat drop outdoor cables have a steel wire embedded to one side of the cable which add additional mechanical strength.

Ideal for use in FTTx outdoor applications, the cable is well suited for connections between the dome closure and small dwelling unit / warehouse and independent villas.

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

Specifications

| Fiber Type | | Unit | OS2 G.652D | | G.657A1/A2 | | | G.657B1/B2 | | |
|-------------------------------|--------------------------|---------------|---------------|------------|-------------|------------|--------|-------------|------------|--------|
| Wavelength | | nm | 1310 | 1550 | 1310 | 1550 | 1625 | 1310 | 1550 | 1625 |
| Attenuation | | dB/km | ≤ 0.40 | ≤ 0.30 | ≤ 0.36 | ≤ 0.21 | ≤ 0.22 | ≤ 0.35 | ≤ 0.21 | ≤ 0.22 |
| Chromatic dispersion | | Ps/nm.k m | ≤ 3.5 | ≤ 18 | ≤ 3.5 | ≤ 18 | ≤ 21 | ≤ 3.5 | ≤ 18 | ≤ 21 |
| Zero dispersion wavelength | | nm | 1300 ~ 1324 | | 1300 ~ 1324 | | | 1300 ~ 1324 | | |
| Zero dispersion slope | | ps/nm2. km | ≤ 0.092 | | ≤ 0.092 | | | ≤ 0.092 | | |
| PMD | | ps/√km | ≤ 0.2 | | ≤ 0.2 | | | ≤ 0.2 | | |
| Cut-off wavelength | | nm | ≤ 1260 | | ≤ 1260 | | | ≤ 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 | dB | - | ≤ 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 |
| Dielectric strength member | FRP Ø 0.45 ± 0.05mm |
| Dielectric strength member | Steel wire Ø 1.2 ± 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 PE/LSZH | Nominal weight | Maximum tensile load | | Crush resistance | | Minimum bend radius | | | |
|---------------|-------------|-------------------------|----------------|----------------------|-----------|------------------|-----------|---------------------|----|-----------|------|
| | | | | Short term | Long term | Short term | Long term | Loaded | | Installed | |
| | | | | | | | | N | N | N/cm | N/cm |
| Black | 1,2 or 4 | 2.0x5.3 ± 0.2mm | 15.6 | 600 | 300 | 1000 | 500 | 60 | 40 | 30 | 20 |

*Denotes nominal value for PE / LSZH Jacketed Cable

Part numbers

| Description | Part code |
|---|----------------------|
| Fiber Optic Singlemode Outdoor Drop Cable, LSZH | FC-XXX-DRP-SW-YYY-LZ |

XXX = OS1, OS2, 7A1, 7A2, 7B2, 7B3

YYY = 001,002 and 004 core

Standard reel length 1000m