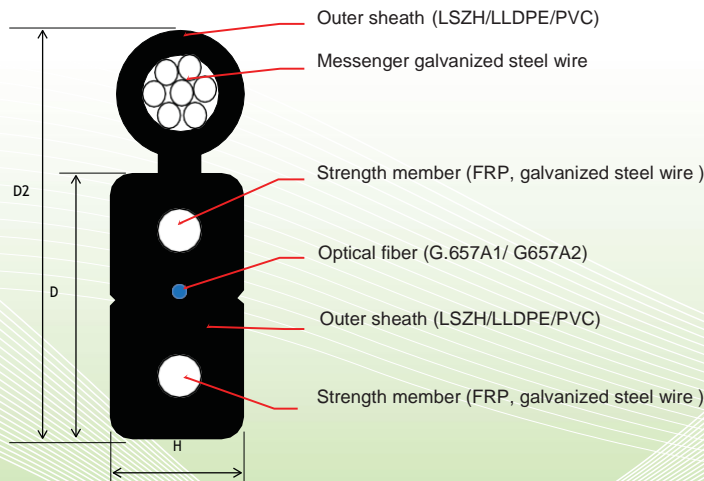


02 | OUTDOOR DROP CABLE

Cable structure



Features & Application

- Self-supporting FTTH drop cable is constructed with from one to four single-mode fibers (G.657A1). The cable is protected by a dielectric strength member, suitable for direct aerial outdoor installation of FTTH network;
- Small diameter and light weight, water-resistant, soft and bendable, easy to deploy and maintenance.

Mechanical & Environmental Characteristics

SPECIFICATIONS	PARAMETERS
Number of optical fiber	01 Fo ÷ 04 Fo
Dimension [HxD] mm (not messenger wire)	[2.0mm x 3.0mm] ± 0.1mm
Dimension [HxD] mm (all messenger wire)	[2.0mm x 5.0mm] ± 0.1mm
Nominal weight (kg/km)	20 ÷ 21
Maximum load (installtion)	500N
Maximum load (Operation)	440N
Temperature ranger (installtion)	-5°C ÷ 65°C
Temperature ranger (operation)	-10°C ÷ 65°C
Bending Radius (installtion)	10*D (D= Cable diameter)
Bending Radius (operation)	20*D (D= Cable diameter)
Longevity	≥ 10 Years

Identification

TIA/EIA-598-A Compliance

Fiber count	Color
1	NA (Any color)
2	Blue; Orange
4	Blue; Orange; Green; Brown

Optical Characteristics

Specifications	Unit	Fiber tyle: SM-ITU-T G.652D
*. Geometrical characteristics		
Mode field diameter at 1310nm	μm	8.6 ± 0.4
Cladding diameter	μm	125 ± 0.7
Core-clad concentricity	μm	≤ 0.5
Cladding non-circularity	%	≤ 1.0
Coating diameter	μm	245 ± 10 (none color) 250 ± 10 (including color)
*. Transmission characteristics		
Attenuation at wavelength: 1310nm÷1625nm	dB/km	≤ 0.4
Attenuation at 1310nm	dB/km	≤ 0.3
Attenuation at 1490nm	dB/km	≤ 0.4
Attenuation at 1550nm	dB/km	≤ 0.22
Chromatic dispersion	ps/nm.km	≤ 3.5 at 1310nm ≤ 18 at 1550nm
PMD index	ps/km ^{1/2}	≤ 0.2
Zero dispersion wavelength	Nm	1300 ≤ λ ₀ ≤ 1324
Zero dispersion slope	ps/nm ² .km	≤ 0.092
Cut-off wavelength	Nm	λ _{cc} ≤ 1260
Macrobend loss at 1550nm + Radius = 15mm*10 turns + Radius = 10mm*1 turns	dB	≤ 0.25 ≤ 0.75
*. Mechanical characteristics		
Proof stress	Gpa	≥ 0.69

*. Using the optical fiber from Corning, Fujikura, Sumitomo and Furukawa.

Informations and parking

- The informations of the cable is printed per meter length complies with IEEE P1222. Other information will be printed as the request of customer.
- Standard length: 1000m to 2000m or is packed according to customer's requirements.