

## Bow-Type Outdoor Flat Drop Cable with Dielectric Yarns Messenger Technical Specification

### Overview

The optical fiber unit is positioned in the centre. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. A dielectrics yarns as the additional strength member is also applied. Then, the cable is completed with a black or color LSZH sheath.

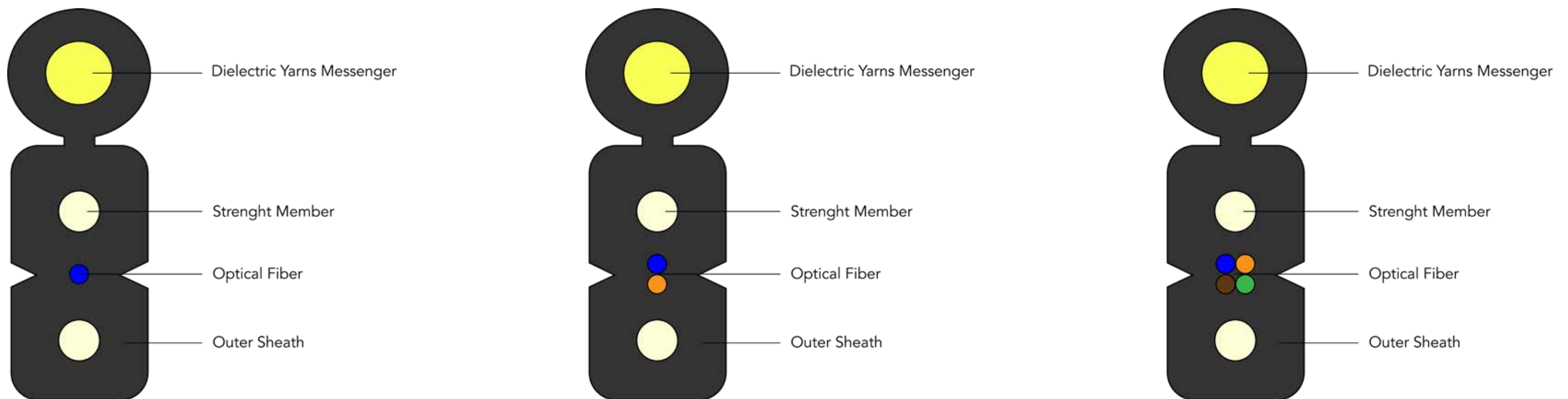


### Technical Index

#### Cable Dimensions and Constructions

Items		Descriptions
Fiber	Fiber type	G657A1
	Fiber count	1 - 2 - 4
	Color	Blue, Orange, Green and Brown
Messenger Wire	Material	Dielectric Yarn
Strength member	Material	GFRP
	Diameter	0.5/ ±0.01mm *2
Outer jacket	Material	LSZH
	Color	Black, Grey, White
	Thickness	2.0mm ±0.2mm
	Width	5.3m ±0.2mm

## Cross sections



## Optical fiber

Items	Description	
	Before cable	After cable
atten.1310	$\leq 0.35\text{dB/km}$	$\leq 0.36\text{dB/km}$
atten.1383	$\leq 0.35\text{dB/km}$	$\leq 0.36\text{dB/km}$
atten.1550	$\leq 0.21\text{dB/km}$	$\leq 0.22\text{dB/km}$
atten.1625	$\leq 0.23\text{dB/km}$	$\leq 0.24\text{dB/km}$
Cable cut-off wavelength	$\leq 1260\text{ nm}$	
Zero-dispersion wavelength	1300 ~ 1324 nm	
Zero-dispersion slope	$\leq 0.091\text{ ps}/(\text{nm}^2.\text{km})$	
Mode field diameter	@ 1310 nm 8.8~9.6 $\mu\text{m}$	
Core/Clad concentricity error	$\leq 0.6\mu\text{m}$	
Cladding diameter	125 $\pm$ 1.0 $\mu\text{m}$	
Cladding non-circularity	$\leq 1.0\%$	
Primary Coating diameter	245 $\pm$ 7 $\mu\text{m}$	
Macro-bend induced attenuation 20mm radius, 1 turn	$\Delta \leq 0.1\text{dB}$ @1550nm	
30 mm radius, 10 turn	$\Delta \leq 0.1\text{dB}$ @1550nm	
100mm radius, 50 turns	$\Delta \leq 0.05\text{ dB}$ @1550nm	

## Mechanical

Items	Descriptions	
Tensile Strength	short-term	150N
(IEC 60794-1-2 E1)	long-term	70N
Crush	short-term	2200N/100mm
(IEC 60794-1-2 E3)	long-term	1000N/100mm
Temperature Range	Storage/Operation	-40 ++70
(IEC 60794-1-2 F1)	Installation	-20 ++60
Bending Radius	Static	15D
	Dynamic	30D

## Packing Information

Plywooden Drums Protection+ outer carton

The cables are packed with 1km on a plywood drum and then in master box.

Delivery Length

Standard delivery length is 1km/drum or per customer's requirements.

## How to order

DOC		
Model Name	Description	P/N
Drop Optical Cable	Flat Drop Cable dielectric yarn GJYXFCH	DOC013
	Flat Drop Cable dielectric yarn GJYXFCH	DOC014
	Flat Drop Cable dielectric yarn GJYXFCH	DOC015