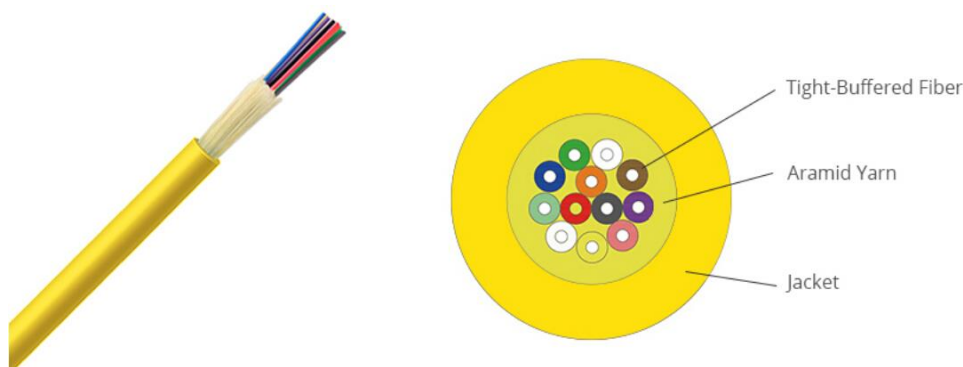


## Introduction

Break-out Optic Cable is commonly known as vertical wiring in buildings cable. It is mostly installed in walls, between floors, in plenum air handling ducts and under data center floors. It can also be made into a 1 to 48 cores structure with a cross-section of round type shaped. The multi-core branch cable will use several simplex optical cables made of 900µm tight buffered fiber and aramid yarns as optical sub-units. Sub-units are stranded together to form a cable core. Then a PVC sheath is extruded on the core. Other sheath materials are available on request.



## Application:

The Break-out Optic Cable bundles assemblies consist of a between 1~48 core, that enables installation of in building wiring applications. The fiber assemblies are bundled with outer sheath is a PVC layer that is of low friction. This fiber cable is applied in Duct, Aerial FTTx, Access installations. Used in access network indoor in customer premises network. Used as access building cable in premises distribution system, especially used in indoor access cabling, the design makes the fiber cable are suitable for the following applications

- Used as access building cable
- Used as interconnect lines of equipment, and used in optical connections in optical communication rooms and optical distribution frames
- Indoor cabling
- Suitable for patch cord and pigtails, indoor distribution
- Distribution system cable

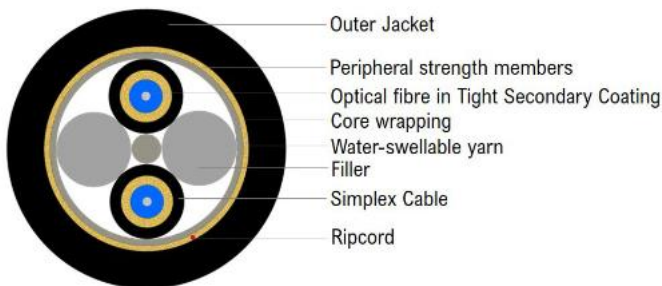
## Operation Features:

The Break-out Optic Cable bundles for in building cabling systems are dedicated for indoor network infrastructure. The small diameter is suitable to be used in projects requiring large number of slots and the fiber number between 1~48 core optical fiber cable which can be routed into ducts, and optical fiber cable with the following features

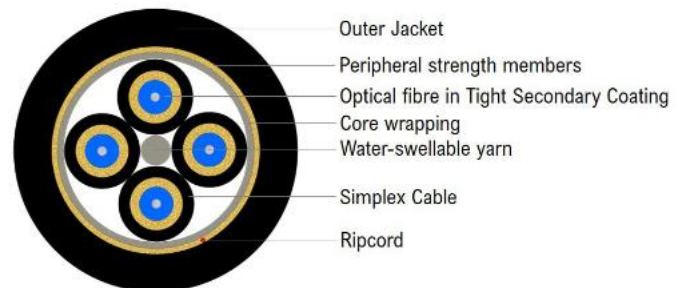
- Flame retardant characteristics meet the requirements of relevant standards
- Excellent temperature performance
- Soft and easy to strip
- High strength Kevlar yarn member
- Small bending radius
- Meet various requirements of market and clients
- Excellent environmental properties
- Perfect cable structure with high fiber density
- Singlemode or Multimode
- Fiber: G.652D, G.657A1, G.657A2

## Cable Structure:

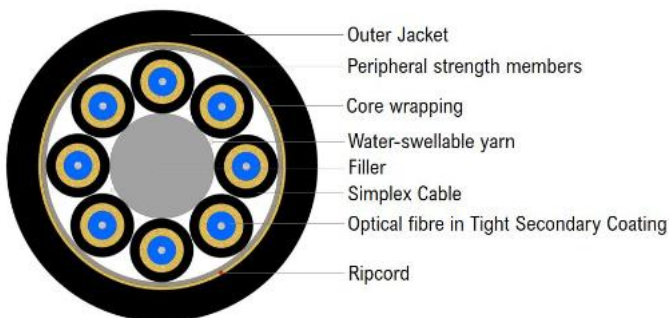
### Breakout Cable 2F



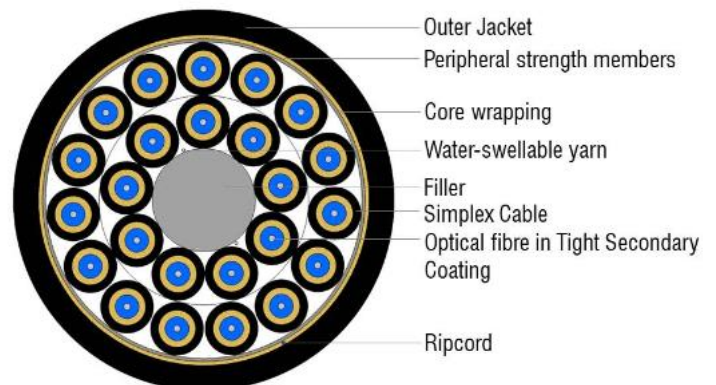
### Breakout Cable 4F



### Breakout Cable 8F



### Breakout Cable 24F



## Technical Specifications

Fiber Counts	Cable Diameter(mm)	Weight	Tensile strength(N)		Crush Resistance (N/100mm)		Minimum bending radius (mm)	
			Short-term	Long-term	Short-term	Long-term	Static	Dynamic
4	7.2±0.4	45.5	200	660	1000	300	10D	20D
6	9.0±0.4	63	200	660	1000	300	10D	20D
8	10.0±0.4	84	200	660	1000	300	10D	20D
12	12.5±0.4	148	200	660	1000	300	10D	20D
24	12.5±0.4	202	400	1320	1000	300	10D	20D

### Mechanical Performance Test compliance

- Tension: IEC 60794-1-21 Method E1
- Bend: IEC 60794-1-21 Method E11
- Crush: IEC 60794-1-21 Method E3

### Temperature Performance

- Storage [°C]: -40 to +60
- Installation [°C]: -20 to +50
- Operation [°C]: -30 to +60

## Packaging

Standard length of cable is 1,000 meters. Other cable length is also available if required by customer. Each length of the cable shall be wound on a separate wooden reel.

Both ends of the cable shall be sealed with a suitable plastic cap to prevent the entry of moisture during shipping, handling and storage.

The cable ends shall be securely fastened to the reel to prevent the cable from becoming loose in transit or during placing operations.

## Marking

The jacket shall be marked with white characters at intervals of one meter with following information. Other marking is also available if requested by customer.

- 1) Cable type and fiber number
- 2) Name of the manufacturer
- 3) Year of manufacture
- 4) Length marking

## Ordering Information

Product Code	Description
LN-LW-xxF-BO-SM	Break-out Fiber Cable Single Mode

### \* Note:

xx= For the number of fibers

\*\* All cables are available in Singlemode or Multimode

**Notice:** The data in this document are only reference and will be changed without any notice. This specification is intended as a guide only.