

FTTH Indoor Patch Cable

Overview

The FTTH patch cable comes with Steel wire,FRP or KFRP strength member ensure good performance of crush resistance to protect the fiber. It can be installed conveniently and operated simply. EFON can supply FTTH patch cables with SC/FC/LC connectors.



Features

- Low insertion loss, high return loss;
- High environmental stability;
- Available fiber cable diameters: $\Phi 2.0 \times 3.0\text{mm}$;
- Indoor FTTH Cable Strength member: Steel wire, FRP, KFRP.
- Connector Types: LC, FC, SC
- Fiber Mode: Single mode G.657A1, G657A2, G657B3
- Ferrule Interface Type: UPC to UPC, APC to APC, APC to UPC
- Good exchangeability; Good Durability
- High temperature stability
- Compliant to IEC, TIA/EIA, NTT and JIS specifications



Technical Specifications

Parameters	SC/PC	SC/UPC	SC/APC
Working Temperature (°C)	-25 — +75		
Insertion Loss (dB)	≤0.25	≤0.25	≤0.25
Return Loss(dB)	≥45	≥50	≥60
Durability(Times)	≥600	≥600	≥600
Tensile strength(N)	≥55	≥55	≥55

Catalog Number

Part# = S — 2 — 7U — 8U — 3 — W

CABLE TYPE

GS=FTTH Indoor 2.0x 3.0mm Steel wire member
 GF=FTTH Indoor 2.0x 3.0mm FRP member
 GK=FTTH Indoor 2.0x 3.0mm KFRP member

CORE SIZE

1=G652D
 2=G657A1
 3=G657A2
 4=G657B3
 5=50/125um
 6=62.5/125um
 7=OM3
 8=OM4
 O=Other

CONNECTORS

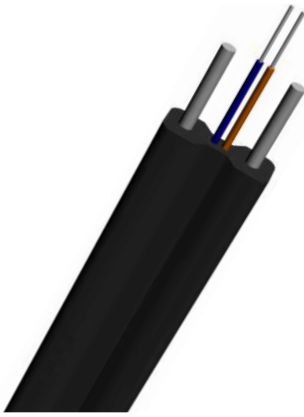
7=FC/PC
 7U=FC/UPC
 7A=FC/APC
 8=ST/PC
 8U=ST/UPC
 L=LC/PC
 LU=LC/UPC
 LA=LC/APC
 Y=SC/PC
 YU=SC/UPC
 YA=SC/APC

LENGTH IN METERS

Color

W=White
 B=Black

Indoor Suspending-Type Cable



Temperature Range
 Operating : -40°C to +70°C
 Storage : -50°C to +70°C
 Installation : -30°C to +70°C
 Bending Radius:
 Static 15D
 Dynamic 30D

Options

Fiber Type: G.652, G.655 or G.657 single-mode fiber, A1a or A1b, OM3 or OM4 multi-mode fiber, or other types of fiber.

Jacket Material: Environmental flame retardant polyvinylchloride(PVC), environmental low smoke zero halogen flame retardant polyolefin(LSZH), environmental halogen flame retardant polyolefin(ZRPO), or other contracted material.

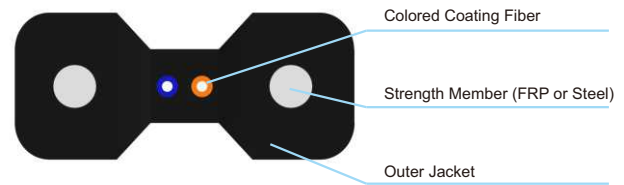
Jacket Color: (Including color of fiber) meets the requirements of relevant standards, or other contracted color.

Application

Used as access building cable.
 Used in indoor cabling, especially used for FTTH.

Features

Good mechanical and environmental characteristics.
 Flame retardant characteristics meet the requirements of relevant standards.
 The mechanical characteristics meet the requirements of relevant standards.
 Soft, flexible, easy to lay and splice, and with big capacity data transmission.
 Meet various requirements of market and clients.



Cable Structure

Optical Characteristics

Fiber Type	Attenuation		Overfilled Launch Bandwidth	Effective Modal Bandwidth	10Gb/s Ethernet link length	Min Bending Radius
	1310/1550nm	850/1300nm				
Conditions	1310/1550nm	850/1300nm	850/1300nm	850nm	850nm	
Unit	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22					16
G657A1	0.36/0.22					10
G657A2	0.36/0.22					7.5
50/125		3.0/1.0	≥500/500			30
62.2/125		3.0/1.0	≥200/500			30
OM3		3.0/1.0	≥1500/500	≥2000	≥300	30
OM4		3.0/1.0	≥3500/500	≥4700	≥550	30
BI-OM3		3.0/1.0	≥1500/500	≥2000	≥300	7.5
BI-OM4		3.0/1.0	≥3500/500	≥4700	≥550	7.5

Structure and Technical Specifications

Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength (N/100mm)		Crush Resistance (N/100mm)	
			Short Term	Long Term	Short Term	Long Term
1~4	3.0×2.0	9.0	80/200	40/100	1000/2200	500/1000

Note : This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information.

The cable core use the colored coating fiber of 250µm.

The tensile and crush of the cable are accordance with the values in the table when the strength member of FRP and Steel are used.