



***Optical Fiber & Network Solution***



## About Us

Headquartered in Hong Kong SAR China, Eight Limited was founded in 1996 as a Cable Television and Communications Product company. With a mission to provide products and services that meet our customers' needs and expectations, we build what you want and we offer INFINITE POSSIBILITIES.

Eight Limited designs and manufactures products used throughout the world for CCTV, HDTV, CATV SMATV as well as network systems. The company offers a full product line that includes HDTV, HD receivers, coaxial cables, RF amplifiers, taps, passives, connectors, modulators, dish antenna, satellite receivers, LNBFs, CCTV cameras, DVR, NVR, optical fiber, equipment racks, network cables, and more. Renowned for their superior quality and durability, all products are assembled and tested to meet the exact standards. We measure our success by the way our products perform in the field and the satisfaction from our customers.

EI8HT's customer base includes major cable television system operators, service providers, property developers, telcos, consumer electronics chain stores as well as individual consumers all over the world. Major customers in Hong Kong namely: HKSAR Government, Housing Authority, Hospitals, Universities, MTR, PCCW, SmarTone, i-Cable, TVB, Sun Hung Kai, Shun Hing, Broadway, Fortress etc.

---

### **EIGHT** LIMITED

No.18, 4/F, Thriving Industrial Centre, 26-38 Sha Tsui Road, Tsuen Wan, N.T., Hong Kong  
Tel: (852) 2413 2222 Fax: (852) 2411 3000 Email: [info@eightgroup.com](mailto:info@eightgroup.com)



Visit us at Website  
<http://www.eightgroup.com>

# Product Index

## FIBER CABLE INFO

|                                            |     |
|--------------------------------------------|-----|
| Overview of Single Mode vs Multimode Fiber | P.1 |
| Diagrams                                   | P.2 |

## OPTICAL SOLUTION

|                    |                                           |         |
|--------------------|-------------------------------------------|---------|
| Cables             | Indoor Fiber Cable                        | P.3     |
|                    | Outdoor Armored Fiber Cable               | P.4     |
|                    | Fiber Patch Cable & Optical Fiber Pigtail | P.5~P.6 |
| Splicing Equipment | Fiber Fusion Splicer                      | P.7~P.8 |
|                    | OTDR                                      | P.9     |
| Accessories        |                                           | P.10    |

## SIGNAL DISTRIBUTION

|                   |                                       |      |
|-------------------|---------------------------------------|------|
| CABD Solution     | CABD Optical Transmitter              | P.11 |
|                   | CABD Optical Receiver                 | P.12 |
|                   | SAT-IF Optical Transmitter / Receiver | P.13 |
|                   | Optical Splitter                      | P.14 |
| Optical Solution  | Outdoor Slim Fiber Terminal Box       | P.15 |
|                   | Indoor Metal Fiber Terminal Box       | P.16 |
|                   | Outdoor ABS Fiber Terminal Box        | P.17 |
|                   | IP68 Fiber Terminal Box               | P.18 |
| HDMI Solution     | Optical Fiber Patch Panel             | P.19 |
|                   | Optical HDMI Extender                 | P.20 |
|                   | Optical HDMI Cable                    | P.21 |
|                   | Video Optical Transceiver             | P.22 |
| Ethernet Solution | PoE Network Switch                    | P.23 |
|                   | Fiber Transceiver Module SFP          | P.24 |
|                   | Ethernet Optical Extender             | P.25 |
|                   | Category 5e / 6 / 6A Patch panel      | P.26 |

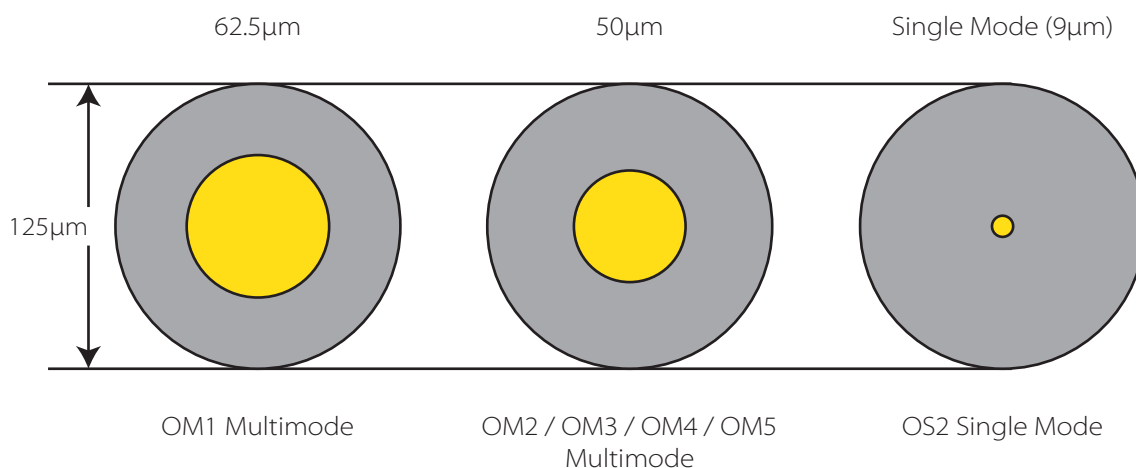
## ETHERNET SOLUTION

|             |                              |           |
|-------------|------------------------------|-----------|
| Cables      | CAT5e Cable                  | P.27~P.28 |
|             | CAT6 Cable                   | P.29~P.30 |
|             | CAT6A Cable                  | P.31      |
|             | CAT7 Cable                   | P.32      |
|             | CAT8 Cable                   | P.34      |
| Accessories | CAT5e / 6 / 6A Patch Cord    | P.35~P.37 |
|             | CAT5e / 6 / 6A Modular       | P.38      |
|             | CAT5e / 6 / 6A Keystone Jack | P.39      |
|             | Networking Wallplate         | P.40      |

## Overview of Single Mode vs Multimode Fiber

Single mode means the fiber enables one type of light mode to be propagated at a time. While multimode means the fiber can propagate multiple modes. The differences between single mode and multimode fiber mainly lies in fiber core diameter, wavelength & light source, bandwidth, color sheath, distance and cost. When ordering optical fiber cables, please ensure which mode are the equipment compatible.

## Optical Fiber Core Diameters



Single mode fiber core diameter is much smaller than multimode fiber. Its typical core diameter is 9 µm even if there are others available. And multimode fiber core diameter is 50 µm and 62.5 µm typically, which enables it to have higher "light gathering" ability and simplify connections. The cladding diameter of single mode and multimode fiber is 125 µm.

## How to Order

Remember to state the 2**M**s and 2**C**s when you're about to order any optical fiber related product !

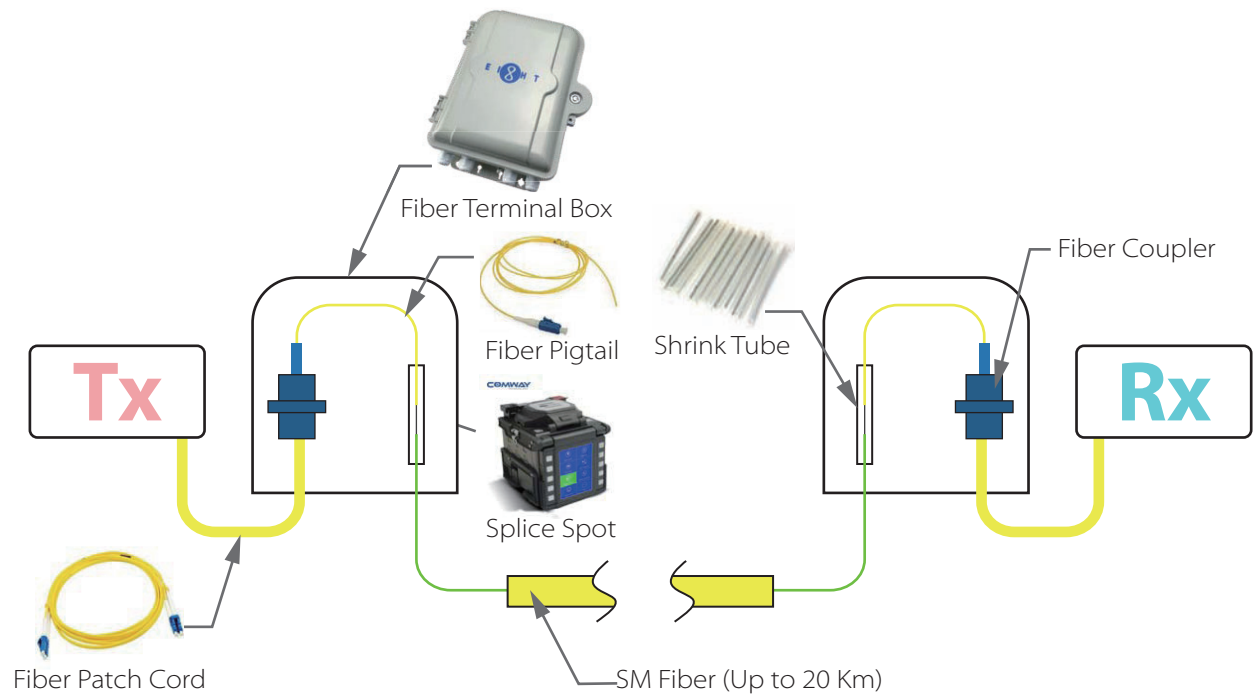
**M**ode of fiber cable - Single mode / Multimode

**M**aterial of jacket - PVC / LSZH / PE

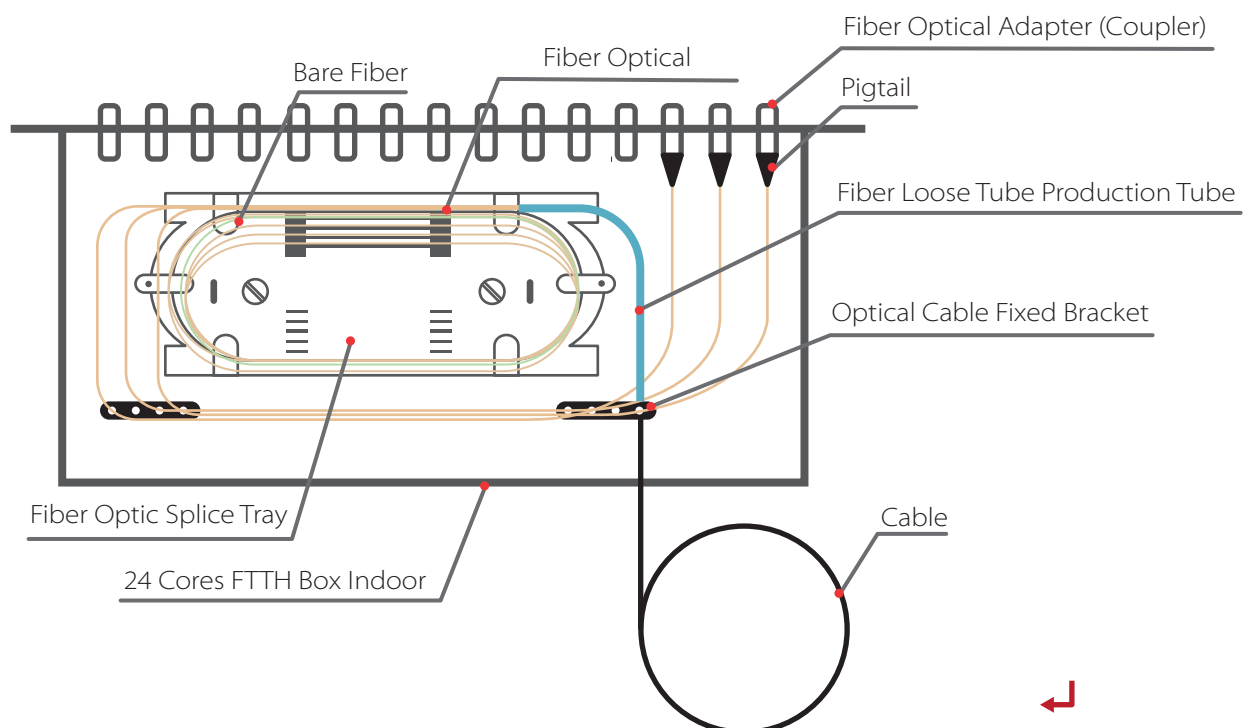
Number of **C**ore(s)

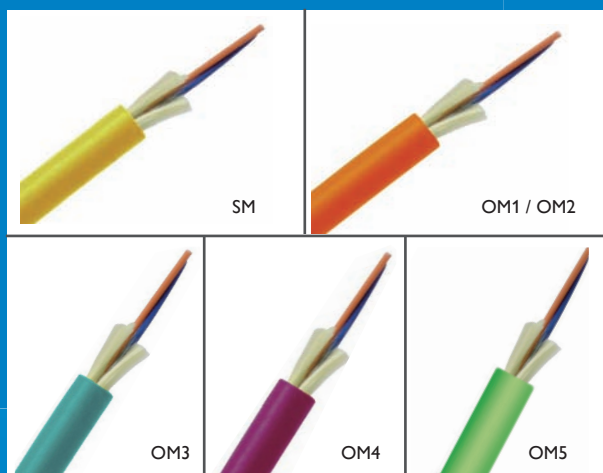
Type of **C**oupler - SC / LC / FC / ST

## Simple Diagram of an Optical Fiber System



## Splice Tray Diagram





## Features

- Available in single mode or multimode fiber, from 2,4,6,8,12,16,24,48 & 96 cores
- Aramid yarn as strength member make cable have
- excellent tensile strength
- Excellent flexibility & easy to branch
- Cable complies with IEC60332-1-2:2015, IEC61034-2:2019, IEC60754-1:2019, IEC60793, IEC62321:2008, IEC62321-5, ITU-TG652



## Specifications

| Model                              | Single Mode (OS2)                    | Multimode (OM3)                      | Multimode (OM4)                      | Multimode (OM5)                      |
|------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Fiber Type                         | G.652.D, 9 / 125 $\mu$ m             | 50 / 125 $\mu$ m                     | 50 / 125 $\mu$ m                     | 50 / 125 $\mu$ m                     |
| Attenuation (+20°C)                | @ 850 nm                             | ---                                  | $\leq 3.3$ dB / km                   | $\leq 2.3$ dB / km                   |
|                                    | @ 953 nm                             | ---                                  | ---                                  | $\leq 1.7$ dB / km                   |
|                                    | @ 1300 nm                            | ---                                  | $\leq 0.6$ dB / km                   | $\leq 0.6$ dB / km                   |
|                                    | @ 1310 nm                            | $\leq 0.36$ dB / km                  | ---                                  | ---                                  |
|                                    | @ 1550 nm                            | $\leq 0.22$ dB / km                  | ---                                  | ---                                  |
| Bandwidth                          | @ 850 nm                             | $\geq 500$ MHz.km                    | $\geq 3500$ MHz.km                   | $\geq 3500$ MHz.km                   |
|                                    | @ 953 nm                             | ---                                  | ---                                  | $\geq 1850$ MHz.km                   |
|                                    | @ 1300 nm                            | $\geq 500$ MHz.km                    | $\geq 500$ MHz.km                    | $\geq 500$ MHz.km                    |
| Numerical Aperture                 | ---                                  | $0.200 \pm 0.015$ NA                 | $0.200 \pm 0.015$ NA                 | $0.200 \pm 0.015$ NA                 |
| Non-Circularity of Core            | $\leq 6\%$                           | $\leq 6\%$                           | $\leq 6\%$                           | $\leq 6\%$                           |
| Core / Cladding Dimension          | 9 / 125 $\mu$ m                      | 50 / 125 $\mu$ m                     | 50 / 125 $\mu$ m                     | 50 / 125 $\mu$ m                     |
| Buffering Diameter                 | $900 \mu\text{m} \pm 50 \mu\text{m}$ | $900 \mu\text{m} \pm 50 \mu\text{m}$ | $900 \mu\text{m} \pm 50 \mu\text{m}$ | $900 \mu\text{m} \pm 50 \mu\text{m}$ |
| Fiber Coating Diameter             | $245 \mu\text{m} \pm 7 \mu\text{m}$  | $245 \mu\text{m} \pm 7 \mu\text{m}$  | $245 \mu\text{m} \pm 7 \mu\text{m}$  | $245 \mu\text{m} \pm 7 \mu\text{m}$  |
| Tensile Strength Long / Short Term | 300 / 600 N                          | 300 / 800 N                          | 300 / 800 N                          | 300 / 800 N                          |
| Crush Resistance Long / Short Term | 300 / 1000 (N/100mm)                 | 300 / 1000 (N/100mm)                 | 300 / 1000 (N/100mm)                 | 300 / 1000 (N/100mm)                 |
| Bending Radius Dynamics / Static   | 20 / 10 D                            | 7.5 D                                | 7.5 D                                | 7.5 D                                |
| Coating Strip Force                | $\leq 13.3$                          | $\leq 13.3$                          | $\leq 13.3$                          | $\leq 13.3$                          |
| Operation Temperature              | -20 °C ~ 60 °C                       | -20 °C ~ 60 °C                       | -20 °C ~ 60 °C                       | -20 °C ~ 60 °C                       |

## How to Order :

|             |                                                                                                                                         |     |    |   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----|----|---|
| MODEL       | EG                                                                                                                                      | XXX | XX | X |
| NO. OF CORE | 001-096                                                                                                                                 |     |    |   |
| MODE        | SM : Single Mode OS2<br>M1 : Multi-Mode OM1<br>M2 : Multi-Mode OM2<br>M3 : Multi-Mode OM3<br>M4 : Multi-Mode OM4<br>M5 : Multi-Mode OM5 |     |    |   |
| JACKET      | V : PVC<br>Z : LSZH                                                                                                                     |     |    |   |

Example:

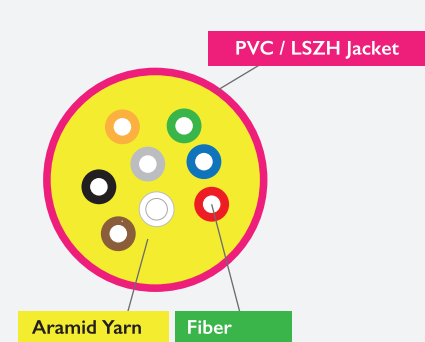
4-Core Single Mode Indoor LSZH Fiber Cable: **EG004SMZ**

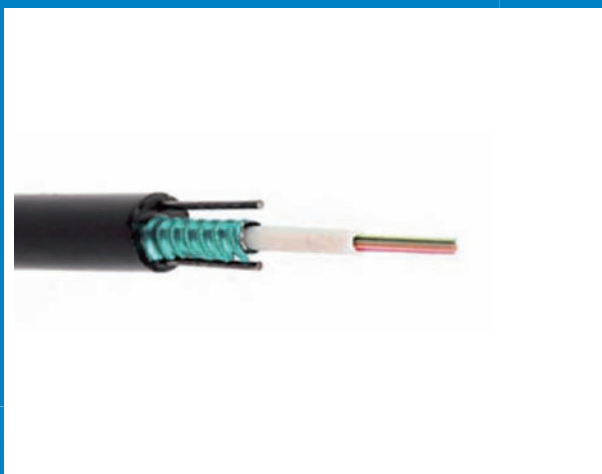
4-Core Multimode OM3 Indoor LSZH Fiber Cable: **EG004M3Z**

8-Core Multimode OM4 Indoor PVC Fiber Cable: **EG008M4V**

16-Core Multimode OM5 Indoor LSZH Fiber Cable: **EG016M5Z**

## Cable Construction Diagram:





### Features

- Available in single mode or multimode fiber, from 2,4,6,8,12,16,24,48,96,108,120,132,144 & 216 cores
- High strength loose tube that is hydrolysis resistant
- Crush resistance and flexibility
- PSP enhancing moisture-proof
- Two parallel steel wires ensure tensile strength
- Cable complies with IEC60332-1-2:2015, IEC61034-2:2019 & IEC60754-1:2019



### Specifications

| Model                                       | Single Mode (OS2)            | Multimode (OM3)              | Multimode (OM4)              | Multimode (OM5)              |
|---------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Fiber Type                                  | G.652.D, 9 / 125 $\mu$ m     | 50 / 125 $\mu$ m             | 50 / 125 $\mu$ m             | 50 / 125 $\mu$ m             |
| Attenuation (+20°C)                         | @ 850 nm                     | ---                          | $\leq 3.3$ dB / km           | $\leq 2.3$ dB / km           |
|                                             | @ 1300 nm                    | ---                          | $\leq 1.2$ dB / km           | $\leq 0.6$ dB / km           |
|                                             | @ 1310 nm                    | $\leq 0.36$ dB / km          | ---                          | ---                          |
|                                             | @ 1550 nm                    | $\leq 0.22$ dB / km          | ---                          | ---                          |
| Bandwidth                                   | @ 850 nm                     | $\geq 500$ MHz.km            | $\geq 3500$ MHz.km           | $\geq 3500$ MHz.km           |
|                                             | @ 1300 nm                    | $\geq 500$ MHz.km            | $\geq 500$ MHz.km            | $\geq 500$ MHz.km            |
| Numerical Aperture                          | ---                          | 0.200 $\pm$ 0.015 NA         | 0.200 $\pm$ 0.015 NA         | 0.200 $\pm$ 0.015 NA         |
| Cable Cut-off Wavelength ( $\lambda_{cc}$ ) | $\leq 1260$ nm               | ---                          | ---                          | ---                          |
| Non-Circularity of Core                     | $< 6\%$                      | $< 6\%$                      | $< 6\%$                      | $< 6\%$                      |
| Core / Cladding Dimension                   | 9 / 125 $\mu$ m              | 50 / 125 $\mu$ m             | 50 / 125 $\mu$ m             | 50 / 125 $\mu$ m             |
| Buffering Diameter                          | 900 $\mu$ m $\pm$ 50 $\mu$ m | 900 $\mu$ m $\pm$ 50 $\mu$ m | 900 $\mu$ m $\pm$ 50 $\mu$ m | 900 $\mu$ m $\pm$ 50 $\mu$ m |
| Fiber Coating Diameter                      | 245 $\mu$ m $\pm$ 7 $\mu$ m  | 245 $\mu$ m $\pm$ 7 $\mu$ m  | 245 $\mu$ m $\pm$ 7 $\mu$ m  | 245 $\mu$ m $\pm$ 7 $\mu$ m  |
| Tensile Strength Long / Short Term          | 1000 / 3000 N                | 1000 / 3000 N                | 1000 / 3000 N                | 1000 / 3000 N                |
| Crush Resistance Long / Short Term          | 300 / 1000 (N/100mm)         | 300 / 1000 (N/100mm)         | 300 / 1000 (N/100mm)         | 300 / 1000 (N/100mm)         |
| Bending Radius Dynamics / Static            | 20 / 10 D                    | 7.5 D                        | 7.5 D                        | 7.5 D                        |
| Coating Strip Force                         | $\leq 13.3$                  | $\leq 13.3$                  | $\leq 13.3$                  | $\leq 13.3$                  |
| Operation Temperature                       | -20 °C ~ 60 °C               | -20 °C ~ 60 °C               | -20 °C ~ 60 °C               | -20 °C ~ 60 °C               |

### How to Order :

| MODEL       | EGYXTW                                                                                                                                                                            | XXX | XX | X                                |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----------------------------------|
| NO. OF CORE | MODE                                                                                                                                                                              |     |    | JACKET                           |
| 001-216     | <b>SM</b> : Single Mode OS2<br><b>M1</b> : Multi-Mode OM1<br><b>M2</b> : Multi-Mode OM2<br><b>M3</b> : Multi-Mode OM3<br><b>M4</b> : Multi-Mode OM4<br><b>M5</b> : Multi-Mode OM5 |     |    | <b>E</b> : PE<br><b>Z</b> : LSZH |

Example:

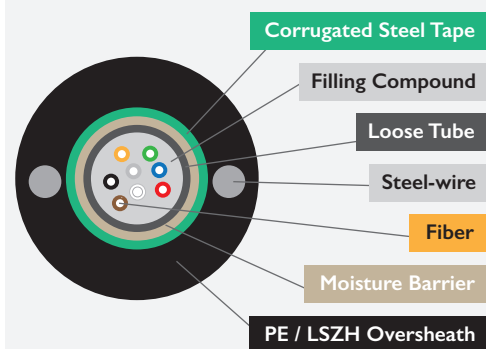
4-Core Single Mode Outdoor LSZH Fiber Cable: **EGYXTW004SMZ**

4-Core Multimode OM3 Outdoor LSZH Fiber Cable: **EGYXTW004M3Z**

8-Core Multimode OM4 Outdoor PE Fiber Cable: **EGYXTW008M4E**

16-Core Multimode OM5 Outdoor LSZH Fiber Cable: **EGYXTW016M5Z**

### Cable Construction Diagram:





## Features

- Low insertion loss
- High return loss
- Good repeatability
- Cable complies with IEC60332-1-2:2015, IEC61034-2:2019, IEC60754-1:2019, IEC60793, IEC62321:2008, IEC62321-5, ITU-TG652



## Specifications

| Model                  | Single Mode                   |                  | Multimode                   |                 |
|------------------------|-------------------------------|------------------|-----------------------------|-----------------|
| Connector Polish Types | UPC                           | APC              | UPC                         | APC             |
| Operating Wavelength   | 1310 nm, 1550 nm              | 1310 nm, 1550 nm | 850 nm, 1300 nm             | 850 nm, 1300 nm |
| Insertion Loss         | ≤ 0.3 dB                      | ≤ 0.3 dB         | ≤ 0.3 dB                    | ≤ 0.3 dB        |
| Return Loss            | > 50 dB                       | > 60 dB          | /                           | /               |
| Fiber Type             | G.652.D / G.657.A1 / G.657.A2 |                  | OM1 / OM2 / OM3 / OM4 / OM5 |                 |
| Interchangeability     | ≤ 0.2 dB                      |                  | ≤ 0.2 dB                    |                 |
| Repeatability          | ≤ 0.2 dB                      |                  | ≤ 0.2 dB                    |                 |
| Service Life           | > 1000 times                  |                  | > 1000 times                |                 |
| Connectors Type        | SC, LC, FC, ST                |                  | SC, LC, FC, ST              |                 |
| Cable Type             | Simplex / Duplex (Zip cord)   |                  | Simplex / Duplex (Zip cord) |                 |
| Sheath Materials       | PVC / LSZH                    |                  | PVC / LSZH                  |                 |
| Loose Sleeve           | 2.0 mm / 3.0 mm               |                  | 2.0 mm / 3.0 mm             |                 |
| Length                 | Customized                    |                  | Customized                  |                 |
| Tensile Strength       | >10 kg                        |                  | >10 kg                      |                 |
| Temperature Range      | -40 °C ~ 85 °C                |                  | -40 °C ~ 85 °C              |                 |

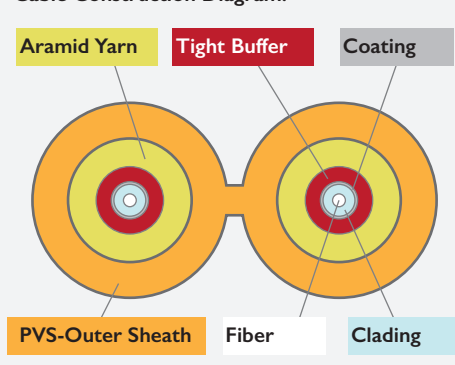
## How to Order :

|                |  |                                  |  |                    |  |                                                                                                                                         |  |                     |      |          |   |      |  |   |       |  |
|----------------|--|----------------------------------|--|--------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|------|----------|---|------|--|---|-------|--|
| How to Order : |  |                                  |  |                    |  |                                                                                                                                         |  |                     |      |          |   |      |  |   |       |  |
| MODEL          |  | FPC                              |  | - XXF              |  | - XX                                                                                                                                    |  | X                   | - XX |          | X | - XX |  | X | - XXX |  |
| NO. OF CORE    |  | CONNECTOR                        |  | POLISH             |  | MODE                                                                                                                                    |  | JACKET              |      | LENGTH   |   |      |  |   |       |  |
| 01-96          |  | 1) SC    2) LC<br>3) FC    4) ST |  | A : APC<br>U : UPC |  | SM : Single Mode OS2<br>M1 : Multi-Mode OM1<br>M2 : Multi-Mode OM2<br>M3 : Multi-Mode OM3<br>M4 : Multi-Mode OM4<br>M5 : Multi-Mode OM5 |  | V : PVC<br>Z : LSZH |      | in meter |   |      |  |   |       |  |

## Remember to State :

1) Number of Core(s) 2) Type of Coupler 3) Mode of fiber

## Cable Construction Diagram:





## Features

- Low insertion loss
- High return loss
- Good repeatability
- Cable complies with IEC60332-1-2:2015, IEC61034-2:2019, IEC60754-1:2019, IEC60793, IEC62321:2008, IEC62321-5, ITU-TG652



## Specifications

| Model                  | Single Mode                   |                  | Multimode                   |                 |
|------------------------|-------------------------------|------------------|-----------------------------|-----------------|
| Connector Polish Types | UPC                           | APC              | UPC                         | APC             |
| Operating Wavelength   | 1310 nm, 1550 nm              | 1310 nm, 1550 nm | 850 nm, 1300 nm             | 850 nm, 1300 nm |
| Insertion Loss         | ≤ 0.3 dB                      | ≤ 0.3 dB         | ≤ 0.3 dB                    | ≤ 0.3 dB        |
| Return Loss            | > 50 dB                       | > 60 dB          | /                           | /               |
| Fiber Type             | G.652.D / G.657.A1 / G.657.A2 |                  | OM1 / OM2 / OM3 / OM4 / OM5 |                 |
| Interchangeability     | ≤ 0.2 dB                      |                  | ≤ 0.2 dB                    |                 |
| Repeatability          | ≤ 0.2 dB                      |                  | ≤ 0.2 dB                    |                 |
| Service Life           | > 1000 times                  |                  | > 1000 times                |                 |
| Connectors Type        | SC, LC, FC, ST                |                  | SC, LC, FC, ST              |                 |
| Cable Type             | Tight buffer                  |                  | Tight buffer                |                 |
| Sheath Materials       | LSZH                          |                  | LSZH                        |                 |
| Loose Sleeve           | 900 μm                        |                  | 900 μm                      |                 |
| Length                 | 1 M                           |                  | 1 M                         |                 |
| Tensile Strength       | > 10 kg                       |                  | > 10 kg                     |                 |
| Temperature Range      | -40 °C ~ 85 °C                |                  | -40 °C ~ 85 °C              |                 |

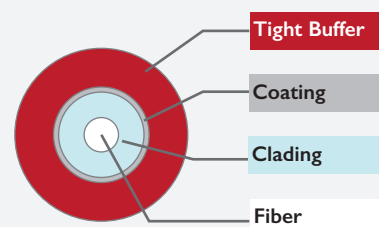
## How to Order :

|                                                            |                                  |                                                                                                                                                                                   |                 |
|------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| MODEL <b>FPT</b> - <b>XX</b> <b>X</b> - <b>XX</b> <b>Z</b> |                                  |                                                                                                                                                                                   |                 |
| <b>CONNECTOR</b>                                           | <b>POLISH</b>                    | <b>MODE</b>                                                                                                                                                                       | <b>JACKET</b>   |
| 1) SC    2) LC<br>3) FC    4) ST                           | <b>A</b> : APC<br><b>U</b> : UPC | <b>SM</b> : Single Mode OS2<br><b>M1</b> : Multi-Mode OM1<br><b>M2</b> : Multi-Mode OM2<br><b>M3</b> : Multi-Mode OM3<br><b>M4</b> : Multi-Mode OM4<br><b>M5</b> : Multi-Mode OM5 | <b>Z</b> : LSZH |

## Remember to State :

1) Number of Core(s)    2) Type of Coupler    3) Mode of fiber

## Cable Construction Diagram:





### Features



TOP TECHNOLOGY FROM U.S.A

- Anti-theft
- 6 Motors Core Alignment
- 4.1 Inch color screen
- ID electrode
- 1 Sec booting
- Auto detect fiber mode

### Specifications

| Model                 |               | C10                                                                                           |
|-----------------------|---------------|-----------------------------------------------------------------------------------------------|
| Fiber Alignment       |               | 6 motors core alignment                                                                       |
| Fiber Type            |               | SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), ZN/NZDS (ITU-T G.655), BI (ITU-T G.657) |
| Splice Mode           |               | Single fiber                                                                                  |
| Fiber Diameter        |               | Cladding diameter 80~150 $\mu$ m, coating 100~1000 $\mu$ m                                    |
| Cleave Length         |               | 250 $\mu$ m cladding diameter 8~16, over 250 $\mu$ m cladding diameter 16mm                   |
| Splicing Programs     |               | Max. 100                                                                                      |
| Splicing Time         |               | 6 sec. [SM Fast] program, 10 sec. [SM G652] program                                           |
| Heating Programs      |               | Max. 30                                                                                       |
| Heating Time          |               | Typical 12 sec. (Adjustable)                                                                  |
| Splice Protector      |               | 10 ~ 60 mm                                                                                    |
| Splice Image Capture  |               | Max. 300                                                                                      |
| Splice Data Storage   |               | Max. 20000                                                                                    |
| Splice Loss           |               | SM: 0.02 dB, MM: 0.01dB, DS: 0.04 dB, NZ/NZDS: 0.04 dB, BI: 0.02 dB                           |
| Return Loss           |               | >> 60 dB                                                                                      |
| Loss Estimation       |               | Provided                                                                                      |
| Operation Condition   | Altitude      | 0 ~ 5000 m                                                                                    |
|                       | Humidity      | 0 ~ 95 %                                                                                      |
|                       | Temperature   | - 20 ~ +50 °C                                                                                 |
|                       | Wind Velocity | up to 15m/s                                                                                   |
| Storage Condition     | Humidity      | 0 ~ 95 %                                                                                      |
|                       | Temperature   | - 20 ~ +50 °C (Battery -20 ~ + 40 °C)                                                         |
| Tension               |               | 1.96 ~ 2.25 N                                                                                 |
| Fiber View            |               | Two 300x camera observation, 4.1 inch high-light color screen                                 |
| Fiber Magnification   |               | 300x for X or Y single axis view; 200x for both X & Y dual axis view                          |
| Port                  |               | High speed USB                                                                                |
| Electrodes Life       |               | 5000 arc discharges                                                                           |
| Power Supply          |               | AC100-240, 50/60Hz                                                                            |
| Battery Parameters    |               | 8400 mAh high capacity battery, more than 320 times splicing and heating                      |
| Dimension (D x W x H) |               | 156 x 135 x 149 mm                                                                            |
| Weight                |               | 2.0 kg (2.5 kg with battery)                                                                  |



### Features



TOP TECHNOLOGY FROM U.S.A

- Anti-theft
- 4.1 Inch color screen
- ID electrodes
- Quick booting up

### Specifications

| Model                 |               | A3                                                                                                    |
|-----------------------|---------------|-------------------------------------------------------------------------------------------------------|
| Fiber Alignment       |               | High Precision PAS alignment                                                                          |
| Fiber Type            |               | SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), ZN / NZDS (ITU-T G.655), BI (ITU-T G.657)       |
| Splice Mode           |               | Single fiber                                                                                          |
| Fiber Diameter        |               | Cladding diameter 80~150 μm, coating 100~1000 μm                                                      |
| Cleave Length         |               | 250 μm cladding diameter 8~16 mm, over 250 μm cladding diameter 16 mm                                 |
| Splicing Programs     |               | Max.100                                                                                               |
| Splicing Time         |               | 5 sec. [SM Fast] program, 15 sec. [SM G652] program                                                   |
| Heating Programs      |               | Max. 30                                                                                               |
| Heating Time          |               | Typical 15 sec. (Adjustable)                                                                          |
| Splice Protector      |               | 10 ~ 60 mm                                                                                            |
| Splice Image Capture  |               | Max. 300                                                                                              |
| Splice Data Storage   |               | Max. 20000                                                                                            |
| Splice Loss           |               | SM: 0.02 dB, MM: 0.01 dB, DS: 0.04 dB, NZ/NZDS: 0.04 dB, B: 0.02 dB                                   |
| Return Loss           |               | >> 60 dB                                                                                              |
| Loss Estimation       |               | Provided                                                                                              |
| Operation Condition   | Altitude      | 0 ~ 5000 m                                                                                            |
|                       | Humidity      | 0 ~ 95 %                                                                                              |
|                       | Temperature   | - 20 ~ + 50 °C                                                                                        |
|                       | Wind Velocity | up to 15 m/s                                                                                          |
| Storage Condition     | Humidity      | 0 ~ 95 %                                                                                              |
|                       | Temperature   | - 20 ~ + 50 °C (Battery - 20 ~ + 40 °C)                                                               |
| Tension               |               | 2 N                                                                                                   |
| Fiber View            |               | Two 300x camera observation, 4.1 inch high-light color touch screen                                   |
| Fiber Magnification   |               | 300x for X or Y single axis view; 150x for both X & Y dual axis view                                  |
| Port                  |               | High speed USB                                                                                        |
| Electrodes Life       |               | 5000 arc discharges                                                                                   |
| Power Supply          |               | AC100 ~ 240, 50 / 60Hz                                                                                |
| Battery Parameters    |               | 4000 mAh high capacity battery, more than 240 times splicing and heating , Full charge within 3 hours |
| Dimension (D x W x H) |               | 136 x 135 x 136 mm                                                                                    |
| Weight                |               | 1.5 kg (1.8 kg with battery)                                                                          |



### Features

- HSV-600 series OTDR is designed by Hong Kong Honserv Limited with U.S technology
- 7-inch, outdoor enhanced touch screen for you to get visual GUI
- Handy, lightweight, powerful, 12-hour autonomy unprecedented testing experience is very suitable for fiber optic test environment
- With outstanding optical performance
- SOR report expert to PDF

### Specifications

| Model                                 |                                                                                            | HSV-630                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
|---------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------|-----------------|-----------|----------|----------|-------|-------|-------|-----------|--------|-----------|-----------|--------------------|------------|--|--|------------|------------------|--|--|---------|-------|--|--|---------|--|--|--|------------|---------------|-----------|-----------------|---------------|-----------------|--------------|---|------|--------|---|---|------------|----------|-------|-------|-------|-------|
| Wavelength                            | 850 / 1300 / 1310 / 1550 (50um)                                                            | VFL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 650 nm ± 10 nm, 10 mW                                                                    |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Dynamic                               | 37 / 35 / 27 / 25 dB                                                                       | Stabilized Light Source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Support                                                                                  |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Event Dead Zone                       | SM ≤ 0.8 m                                                                                 | Display                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7 in (178 mm)                                                                            |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
|                                       | MM ≤ 0.8 m                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Outdoor-enhanced touch screen, 800 x 480 TFT                                             |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Atten. Dead Zone                      | SM ≤ 3 m                                                                                   | Interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | USB 2.0 ports x 2, RJ-45 x 1,<br>LAN, 10/100 Mbit/s, Micro SD x 1                        |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
|                                       | MM ≤ 5 m                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Pulse Width                           | 3 ns, 5 ns, 10 ns, 20 ns, 50 ns, 100 ns,<br>200 ns, 500 ns, 1 μs, 2 μs, 5 μs, 10 μs, 20 μs | Storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8 GB internal memory (80 000 OTDR traces),<br>8 GB SD CARD (80 000 OTDR traces)          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Distance Range                        | 100 m, 400 m, 1.5 km, 3 km, 6 km, 12 km,<br>25 km, 50 km, 100 km, 200 km, 400 km           | Battery Life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7.4V, 5300 mAh lithium battery pack,<br>39.22 Wh supports 12 hrs runtime (at max charge) |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Distance Accuracy                     | 0.5 m                                                                                      | Power Consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | < 3 W                                                                                    |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Sampling Points                       | 256000                                                                                     | Power Supply Adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AC / DC adapter                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Refractive Index Range                | 1.30000 ~ 1.70000                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Input                                                                                    | AC 100-240 V, 50-60 Hz |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Distance Accuracy (dB / dB)           | ± (0.75 m + 0.001 % x distance + sampling<br>resolution)                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Out                                                                                      | DC 12 V, 1.5 A         |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Linearity                             | 0.03 m                                                                                     | Operating temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -10 °C ~ + 50 °C                                                                         |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Loss Threshold                        | 0.01 dB                                                                                    | Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - 40 °C ~ + 70 °C                                                                        |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Loss Resolution                       | 0.001 dB                                                                                   | Dimension (W x H x D)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 196 x 172 x 72 mm                                                                        |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Measurement Time                      | 5s-5 mins, real-time                                                                       | Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <1.5 kg (Including battery)                                                              |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Real-time Refresh                     | 4 Hz                                                                                       | Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chinese, English, Spanish, Russian, Italian,<br>Portuguese                               |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Power Meter                           | Calibrated Wavelength 1310 nm / 1550 nm                                                    | SOR report expert to PDF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
|                                       | Working Wavelength 850 nm / 980 nm / 1300 nm / 1310 nm /<br>1490 nm / 1610 nm              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
|                                       | Dynamic -70 dB ~ + 10 dB (± 0.17 dB)                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Outstanding Optical Performance Index |                                                                                            | <div><div>OTDR Test Report</div><div><div><div>Test Information</div><div>Test Condition</div></div><div><table><tr><td>Case No.</td><td>1</td><td>Workplace</td><td>Shenzhen</td></tr><tr><td>Operator</td><td>Allen</td><td>Range</td><td>2000m</td></tr><tr><td>Connector</td><td>FC/APC</td><td>Test Type</td><td>OTDR Test</td></tr><tr><td>Test Item Category</td><td>Continuity</td><td></td><td></td></tr><tr><td>Start Time</td><td>2023-10-26 14:51</td><td></td><td></td></tr><tr><td>Storage</td><td>Local</td><td></td><td></td></tr><tr><td>Comment</td><td></td><td></td><td></td></tr></table></div></div><div><div>60.0 dB</div><div>50.0 dB</div><div>40.0 dB</div><div>30.0 dB</div><div>20.0 dB</div><div>10.0 dB</div><div>0.0 dB</div><div>0.00</div><div>138.01</div><div>276.03</div><div>400m</div><div>214.44m</div><div>5.1 dB</div></div><div><table><tr><th>Event Type</th><th>Distance (km)</th><th>Loss (dB)</th><th>Reflection (dB)</th><th>Slope (dB/km)</th><th>Total Loss (dB)</th></tr><tr><td>1 Reflection</td><td>0</td><td>32.7</td><td>-42.84</td><td>0</td><td>0</td></tr><tr><td>2 Back End</td><td>0.294952</td><td>0.098</td><td>-42.5</td><td>0.008</td><td>0.098</td></tr></table></div></div> |                                                                                          | Case No.               | 1               | Workplace | Shenzhen | Operator | Allen | Range | 2000m | Connector | FC/APC | Test Type | OTDR Test | Test Item Category | Continuity |  |  | Start Time | 2023-10-26 14:51 |  |  | Storage | Local |  |  | Comment |  |  |  | Event Type | Distance (km) | Loss (dB) | Reflection (dB) | Slope (dB/km) | Total Loss (dB) | 1 Reflection | 0 | 32.7 | -42.84 | 0 | 0 | 2 Back End | 0.294952 | 0.098 | -42.5 | 0.008 | 0.098 |
| Case No.                              | 1                                                                                          | Workplace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Shenzhen                                                                                 |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Operator                              | Allen                                                                                      | Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2000m                                                                                    |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Connector                             | FC/APC                                                                                     | Test Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | OTDR Test                                                                                |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Test Item Category                    | Continuity                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Start Time                            | 2023-10-26 14:51                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Storage                               | Local                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Comment                               |                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                        |                 |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| Event Type                            | Distance (km)                                                                              | Loss (dB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Reflection (dB)                                                                          | Slope (dB/km)          | Total Loss (dB) |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| 1 Reflection                          | 0                                                                                          | 32.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -42.84                                                                                   | 0                      | 0               |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |
| 2 Back End                            | 0.294952                                                                                   | 0.098                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -42.5                                                                                    | 0.008                  | 0.098           |           |          |          |       |       |       |           |        |           |           |                    |            |  |  |            |                  |  |  |         |       |  |  |         |  |  |  |            |               |           |                 |               |                 |              |   |      |        |   |   |            |          |       |       |       |       |



## Features

- Easy to install
- Cost effective
- High quality

## Specifications

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>SC Coupler</div> <div><div></div><div>FAD-SM-SCA</div><div>Single Mode SC/APC Coupler</div></div> <div><div></div><div>FAD-SM-SCU</div><div>Single Mode SC/UPC Coupler</div></div> <div><div></div><div>FAD-MM-SCU-OM1</div><div>Multimode SC/UPC OM1 Coupler</div></div> <div><div></div><div>FAD-MM-SCU-OM3</div><div>Multimode SC/UPC OM3 Coupler</div></div> <div><div></div><div>FAD-MM-SCU-OM4</div><div>Multimode SC/UPC OM4 Coupler</div></div> <div><div></div><div>FAD-MM-SCU-OM5</div><div>Multimode SC/UPC OM5 Coupler</div></div> | <div>LC Coupler</div> <div><div></div><div>FAD-SM-LCA</div><div>Single Mode LC/APC Coupler</div></div> <div><div></div><div>FAD-SM-LCU</div><div>Single Mode LC/UPC Coupler</div></div> <div><div></div><div>FAD-MM-LCU-OM1</div><div>Multimode LC/UPC OM1 Coupler</div></div> <div><div></div><div>FAD-MM-LCU-OM3</div><div>Multimode LC/UPC OM3 Coupler</div></div> <div><div></div><div>FAD-MM-LCU-OM4</div><div>Multimode LC/UPC OM4 Coupler</div></div> <div><div></div><div>FAD-MM-LCU-OM5</div><div>Multimode LC/UPC OM5 Coupler</div></div> | <div>Coupler</div> <div><div></div><div>FAQ-SM-SCA</div><div>Single Mode SC/APC Coupler</div></div> <div><div></div><div>FAQ-SM-SCU</div><div>Single Mode SC/UPC Coupler</div></div> <div><div></div><div>FAQ-SM-LCU</div><div>Single Mode LC/UPC Coupler</div></div> <div><div></div><div>FAQ-MM-LCU-OM3</div><div>Multimode LC/UPC OM3 Coupler</div></div> <div><div></div><div>FAQ-MM-LCU-OM4</div><div>Multimode LC/UPC OM4 Coupler</div></div> <div><div></div><div>FAQ-MM-LCU-OM5</div><div>Multimode LC/UPC OM5 Coupler</div></div> |
| <div>FC Coupler</div> <div><div></div><div>FAD-SM-FC</div><div>Single Mode FC-FC Coupler</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div>ST Coupler</div> <div><div></div><div>FAD-SM-ST</div><div>Single Mode ST-ST Coupler</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <div>Fusion Splice Protection Sleeve</div> <div><div></div><div>60 mm, Steel core Ø1.0 mm</div><div>40 mm, Steel core Ø1.0 mm</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <div>COMWAY High Precision Fiber Cleaver</div> <div><div></div><div>Model: C108</div><div>Applicable fibers: Single mode or Multimode</div><div>Provides approximately 48,000 cleaves</div><div>24 Position rotatable and replicable Blade</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <div>COMWAY High Precision Tri-Hole Stripper</div> <div><div></div><div>Model: CS-02-B</div><div>Size: 162 mm</div><div>Weight: 106 g</div><div>Available for: 125 μm, 250 μm, 900 μm</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <div>Visual Fault Locator</div> <div><div></div><div>Material: Plastic</div><div>200 mL</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <div>Visual Fault Locator</div> <div><div></div><div>Model: FLL-01</div><div>Laser safety rating: Class III A</div><div>Wavelength: 650 nm ± 20 nm</div><div>Output power: 1 mW</div><div>Distance: &lt; 5 km</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <div>Optical Fiber Meter</div> <div><div></div><div>Model: FOPM-850/1625</div><div>For Single mode or Multimode</div><div>Working wavelength: 850 - 1625 nm</div><div>Connector: FC / SC</div><div>Size: 190 x 100 x 48 mm</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



### Features

- 870 MHz bandwidth
- High-performance DFB laser to increase the signal quality
- Low noise, low distortion and pre-AMP to meet low RF input signal
- ATC (Automatic Temperature Control) and APC (Automatic Power Control) maintain precise optical power level
- Front panel RF test point (-20dB)
- Front panel LCD display
- Advanced high efficiency switching power supply

### Specifications

| Model                                    | SHQ-OFT                  |
|------------------------------------------|--------------------------|
| Type of Laser                            | DFB                      |
| Wavelength                               | 1310 ± 20 nm             |
| Output Optical Power                     | 10, 13, 16 mW (Optional) |
| Fiber Connector                          | SC / APC                 |
| Optical Return Loss                      | > 55dB                   |
| Frequency Range                          | 47 ~ 870 MHz             |
| Input RF Signal Level                    | 80 ± 3 dBμV              |
| CNR (NOTE)                               | ≥ 52 dB                  |
| CTB (NOTE)                               | - 67 dBc                 |
| CSO (NOTE)                               | - 62 dBc                 |
| Flatness                                 | ± 0.75 dB                |
| RF Input / Impedance                     | F, 75 Ω                  |
| RF Input Return Loss                     | ≥ -15 dB                 |
| APC Control Precision                    | ≤ ± 0.1 dB               |
| ATC Control Precision                    | 25 ± 1 °C                |
| Max TEC Operating Current                | DC + 5V: 0.85 A          |
| MTBF                                     | ≥ 40000 h                |
| Laser Operating Temperature Range        | 5 °C ~ 40 °C             |
| Overall Storage Temperature Range        | -25 °C ~ 55 °C           |
| Overall Relative Humidity                | 40 ~ 70 %                |
| Overall Power Supply Input (with Filter) | AC 220 V (176 ~ 264 V)   |
| Communication Interface                  | RS232 / 485              |
| Power Dissipation                        | 50 W                     |
| Dimensions                               | 480 x 350 x 44 mm        |
| Weight                                   | 3 kg                     |



### Features

- Stretch formed aluminum reflector with high precision
- Well in anti-corrosion
- Excellent in stability
- Accurate in adjustment

### Specifications

| Model        |                        | N860T-AE                                   | N860T-B                                    |
|--------------|------------------------|--------------------------------------------|--------------------------------------------|
| Forward Path | Receive Optical Power  | -8 ~ +2 dBm                                | -8 ~ +2 dBm                                |
|              | Optical Wavelength     | 1100 ~ 1600 nm                             | 1100 ~ 1600 nm                             |
|              | Optical Connector Type | FC / APC, SC / APC (Optional)              | FC / APC, SC / APC (Optional)              |
|              | Optical Fiber Type     | Single Mode                                | Single Mode                                |
|              | Optical Return Loss    | > 55 dB                                    | > 55 dB                                    |
|              | Frequency Range        | 47 ~ 862 MHz                               | 47 ~ 862 MHz                               |
|              | Flatness in Band       | ± 0.75 dB                                  | ± 0.75 dB                                  |
|              | Rated Output Level     | ≥ 108 dBμV (CTB > 60 dB, CSO > 60 dB)      | ≥ 108 dBμV (CTB > 60 dB, CSO > 60 dB)      |
|              | Output Return Loss     | ≥ 16 dB                                    | ≥ 16 dB                                    |
|              | Output Connector       | F type                                     | F type                                     |
| Return Path  | Output Impedance       | 75 Ω                                       | 75 Ω                                       |
|              | Frequency Range        | ---                                        | 5 ~ 42 MHz                                 |
|              | Optical Output Level   | ---                                        | 1 mW                                       |
|              | Optical Wavelength     | ---                                        | 1310 nm                                    |
|              | Optical Connector Type | ---                                        | SC / APC, FC / APC                         |
|              | Optical Return Loss    | ---                                        | ≥ 55 dB                                    |
| General      | Power Voltage          | AC 220V/50Hz / AC 37 ~ 60V/50Hz (Optional) | AC 220V/50Hz / AC 37 ~ 60V/50Hz (Optional) |
|              | Operation Temperature  | -20 °C ~ +55 °C                            | -20 °C ~ +55 °C                            |
|              | Relative Humidity      | Max 95 % non-condensing                    | Max 95 % non-condensing                    |
|              | Consumption            | ≤ 12 W                                     | ≤ 12 W                                     |
|              | Dimension (L x W x H)  | 215 x 165 x 80 mm                          | 215 x 165 x 80 mm                          |



### Features

- Different models and housing available for different satellite L-band transmission applications
- Able to transmit all satellite L-band analogue and digital signals in 950 - 2400MHz
- Different optical wavelength options: 1310nm, 1550nm and CWDM
- Achieved high reliability and long lifetime by perfect laser
- APC and ATC control circuit
- Optical transmitter can supply 13VDC or 18 VDC to LNB
- Good in against interference from EM, RF and thunderstorm

### Specifications

| HDS-26S         |                              | MIN                 | TYP.        | MAX        |
|-----------------|------------------------------|---------------------|-------------|------------|
| Optical Feature | Wavelength Stability         | -1 Pm/ °C           | ---         | 0 Pm/ °C   |
|                 | Equivalent Noise Temperature | ---                 | ---         | -155 dB/Hz |
|                 | Side Mode Suppression Ratio  | 35 dB               | ---         | ---        |
|                 | Optical Isolation            | 30 dB               | ---         | ---        |
|                 | Extinction Ratio             | 8.2 dB              | ---         | ---        |
|                 | SBS                          | 16@1310 nm          | ---         | ---        |
|                 | Return Loss                  | 50 dB               | ≥ 0dB       | ---        |
|                 | Optical Connector            | SC / APC & LC / APC |             |            |
| RF Feature      | Operating Bandwidth          | 950 MHz             | ---         | 2600 MHz   |
|                 | Input Range                  | - 40 dBm            | ---         | - 14 dBm   |
|                 | Flatness                     | 2 dB                | ---         | 2 dB       |
|                 | Return Loss                  | 12 dB               | ---         | ---        |
|                 | Channel Loading              | 36 CH               |             |            |
|                 | CNR                          | 28 dB               | ---         | ---        |
|                 | CTB                          | ---                 | ---         | -36 dB     |
|                 | CSO                          | ---                 | ---         | -36 dB     |
|                 | Input Impedance              | ---                 | 75 Ω        | ---        |
|                 | RF Connector                 | ---                 | F-Female    | ---        |
|                 | To LNB Voltage               | ---                 | 13 / 18 VAC | ---        |
|                 | To LNB Current               | ---                 | ---         | 300 mA     |
| General         | Power Supply                 | DC 12V              |             |            |
|                 | Power Consumption            | ---                 | ---         | 5 W        |
|                 | Operating Temperature        | - 5 °C              | ---         | 65 °C      |
|                 | Storage Temperature          | - 40 °C             | ---         | 85°C       |
|                 | Operating Relative Humidity  | 5 %                 | ---         | 95 %       |

| HRS-26S/P       |                             | MIN                  | TYP.              | MAX      |
|-----------------|-----------------------------|----------------------|-------------------|----------|
| Optical Feature | Operating Wavelength        | 1260 nm              | ---               | 1260 nm  |
|                 | Reasonability (R13)         | 0.9 A/W              | ---               | ---      |
|                 | Receiving Optical Power     | Typ ---              | ≥ - 13            | ---      |
|                 |                             | Overload + 3 dBm     | ---               | ---      |
|                 | Optical Receiver PD         | PIN                  |                   |          |
|                 | Return Loss                 | 50 dB                | ---               | ---      |
|                 | Optical Connector           | SC / APC             |                   |          |
|                 | Working Bandwidth           | 950 MHz              | ---               | 2600 MHz |
| RF Feature      | Output Level                | 10 dBmV              | ---               | 30 dBmV  |
|                 | Flatness                    | 950-2400MHz - 1.0 dB | ---               | + 1.0 dB |
|                 | Output Return Loss          | 950-2400MHz 12 dB    | ---               | ---      |
|                 | Channel Loading             | PQSK or FM ---       | ---               | 36 CH    |
|                 | IM3                         | - 65 dB              | ---               | ---      |
|                 | HUM                         | - 60 dB              | ---               | ---      |
|                 | IP1                         | 18 dBm               | ---               | ---      |
|                 | Output Impedance            | (Option 50Ω) ---     | 75 Ω              | ---      |
|                 | RF Connector                | 75Ω                  | F-Female          | ---      |
| General         | Power Consumption           | ---                  | ---               | 5 W      |
|                 | Operating Temperature       | - 5 °C               | ---               | - 65 °C  |
|                 | Storage Temperature         | - 40 °C              | ---               | +85 °C   |
|                 | Operating Relative Humidity | 5%                   | ---               | 95 %     |
|                 | Size                        | HRS-26S/P-113        | 19" x 14.5" 1.75" |          |
|                 |                             | HRS-26S/P-213        | 59 x 98 x 23 mm   |          |
|                 |                             | HRS-26S/P-313        | 117 x 72 x 29 mm  |          |
|                 |                             | HRS-26S/P-913        | 150 x 135 x 98 mm |          |



## Features

- Low insertion loss and high uniform
- Low polarization relevant
- Redundant reliability

## Specifications

| Model                               | OS1X2PLCX                                                                                              | OS1X4PLCX | OS1X8PLCX | OS1X16PLCX | OS1X32PLCX | OS1X64PLCX | OS1X128PLCX |
|-------------------------------------|--------------------------------------------------------------------------------------------------------|-----------|-----------|------------|------------|------------|-------------|
| Type                                | 1 x 2                                                                                                  | 1 x 4     | 1 x 8     | 1 x 16     | 1 x 32     | 1 x 64     | 1 x 128     |
| Operating Wavelength                | 1260 ~ 1650 nm                                                                                         |           |           |            |            |            |             |
| Insertion Loss                      |                                                                                                        |           |           |            |            |            |             |
| Typical                             | 4.0 dB                                                                                                 | 7.2 dB    | 10.3 dB   | 13.8 dB    | 16.8 dB    | 20.2 dB    | 23.5 dB     |
| Maximum                             | 4.2 dB                                                                                                 | 7.4 dB    | 10.5 dB   | 14.0 dB    | 17.0 dB    | 20.4 dB    | 23.7 dB     |
| Uniformity                          |                                                                                                        |           |           |            |            |            |             |
| Maximum                             | 0.8 dB                                                                                                 | 0.8 dB    | 0.8 dB    | 1.0 dB     | 1.2 dB     | 2.0 dB     | 2.0 dB      |
| Polarization Dependent Loss         |                                                                                                        |           |           |            |            |            |             |
| Maximum                             | 0.1 dB                                                                                                 | 0.1 dB    | 0.1 dB    | 0.2 dB     | 0.2 dB     | 0.2 dB     | 0.2 dB      |
| Return Loss                         |                                                                                                        |           |           |            |            |            |             |
| Maximum                             | ≥50 dB ( ≥55 dB with connector )                                                                       |           |           |            |            |            |             |
| Directivity                         |                                                                                                        |           |           |            |            |            |             |
| Maximum                             | ≥55 dB                                                                                                 |           |           |            |            |            |             |
| Operating Temperature               | -20 °C ~ 75 °C                                                                                         |           |           |            |            |            |             |
| Storage Temperature                 | -40 °C ~ 85 °C                                                                                         |           |           |            |            |            |             |
| 1RU Rack Size Dimension (L x D x H) | 482.6 mm (19") x 200 mm x 44.45 mm (1U)                                                                |           |           |            |            |            |             |
| Package / Type                      | Different outlook available (Please consultate for details)<br>ABS box, LGX modular box, 1RU rack size |           |           |            |            |            |             |
| Connector Options                   | SC/APC, FC/APC, LC/APC or none (Only ABS box can implement with pigtail without connector)             |           |           |            |            |            |             |

## How to Order :

| MODEL | OSIX | N              | PLC         | X                   |
|-------|------|----------------|-------------|---------------------|
|       |      | NO.OF SPLITTER |             | TYPE                |
|       |      | 2 : 1x2        | 32 : 1x32   | B : Small Box Type  |
|       |      | 4 : 1x4        | 64 : 1x64   | L : LGX Type        |
|       |      | 8 : 1x8        | 128 : 1x128 | R : Rack Mount Type |
|       |      | 16 : 1x16      |             |                     |



### Features

- Water-proof design for outdoor uses
- Ready for wall mount – installation kits provided
- Double-layer design for easier installation and maintenances
- Lower layer for splitters and over length fiber storage
- Upper layer for splicing, cross-connecting and fiber distribution
- Cable fixing units provided for fixing the outdoor optical cable
- Accommodates both cable glands as well as tie-wraps
- Lock provided for extra security

### Specifications

| Model                            |    | FTMB-SLIM-6D Series          |
|----------------------------------|----|------------------------------|
| For Number of Couplers           |    | 6                            |
| Capacity                         | LC | 6 Capacity / 12 cores (Max.) |
|                                  | SC | 6 Capacity / 6 cores (Max.)  |
|                                  | ST | 6 Capacity / 6 cores (Max.)  |
|                                  | FC | 6 Capacity / 6 cores (Max.)  |
| Working Temperature              |    | - 40 °C ~ + 85 °C            |
| Relative Humidity                |    | < 85 % (+ 30 °C)             |
| Atmospheric Pressure             |    | 70 Kpa ~ 106 Kpa             |
| Insertion Loss                   |    | < 0.2 dB                     |
| UPC Return Loss                  |    | > 50 dB                      |
| APC Return Loss                  |    | > 60 dB                      |
| Life of Insertion and Extraction |    | > 1000 times                 |
| Size                             |    | 215 x 140 x 40 mm            |

### How to Order :

| MODEL FTMB-SLIM- 6 D - XX - XX X |            |                                                                                                                                                 |                            |                                  |
|----------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|
| NO. OF COUPLERS                  | ADAPTER    | MODE                                                                                                                                            | CONNECTOR                  | POLISH                           |
| 6                                | D : Duplex | <b>SM</b> : Single Mode<br><b>M1</b> : Multi-Mode OM1<br><b>M2</b> : Multi-Mode OM2<br><b>M3</b> : Multi-Mode OM3<br><b>M4</b> : Multi-Mode OM4 | 1) SC 2) LC<br>3) FC 4) ST | <b>A</b> : APC<br><b>U</b> : UPC |

### Remember to State :

1) Number of Core(s)    2) Type of Coupler    3) Mode of fiber



### Features

- Comply with ANSI/EIA, RS-310-D; IEC297-2; DIN41491: PART 1; DIN41491: PART 7; GB/T3047.2-92 standard
- Door lockable
- LC & SC adapter available
- Supplied with accessories

### Specifications

| Model                 |    | FTMB-METAL-6D Series         | FTMB-METAL-12D-Series         |
|-----------------------|----|------------------------------|-------------------------------|
| For Number of Coupler |    | 6                            | 12                            |
| Capacity              | LC | 6 Capacity / 12 cores (Max.) | 12 Capacity / 24 cores (Max.) |
|                       | SC | 6 Capacity / 6 cores (Max.)  | 12 Capacity / 12 cores (Max.) |
|                       | ST | 6 Capacity / 6 cores (Max.)  | 12 Capacity / 12 cores (Max.) |
|                       | FC | 6 Capacity / 6 cores (Max.)  | 12 Capacity / 12 cores (Max.) |
| Dimension             |    | 230 x 230 x 85 mm            | 230 x 230 x 85 mm             |
| Number of Door        |    | 1                            | 1                             |

| Model                  |    | FTMB-METAL-24D Series         | FTMB-METAL-48D Series         |
|------------------------|----|-------------------------------|-------------------------------|
| For Number of Couplers |    | 24                            | 48                            |
| Capacity               | LC | 24 Capacity / 48 cores (Max.) | 48 Capacity / 96 cores (Max.) |
|                        | SC | 24 Capacity / 24 cores (Max.) | 48 Capacity / 48 cores (Max.) |
|                        | ST | 24 Capacity / 24 cores (Max.) | 48 Capacity / 48 cores (Max.) |
|                        | FC | 24 Capacity / 24 cores (Max.) | 48 Capacity / 48 cores (Max.) |
| Dimension              |    | 376 x 355 x 115 mm            | 376 x 355 x 115 mm            |
| Number of Door         |    | 2                             | 2                             |

### How to Order :

|                 |             |                                                                                                              |   |   |                            |   |                  |   |
|-----------------|-------------|--------------------------------------------------------------------------------------------------------------|---|---|----------------------------|---|------------------|---|
| MODEL           | FTMB-METAL- | XX                                                                                                           | X | - | XX                         | - | XX               | X |
| NO. OF COUPLERS | ADAPTER     | MODE                                                                                                         |   |   | CONNECTOR                  |   | POLISH           |   |
| 01-48           | D : Duplex  | SM : Single Mode<br>M1 : Multi-Mode OM1<br>M2 : Multi-Mode OM2<br>M3 : Multi-Mode OM3<br>M4 : Multi-Mode OM4 |   |   | 1) SC 2) LC<br>3) FC 4) ST |   | A: APC<br>U: UPC |   |

### Remember to State :

1) Number of Core(s)    2) Type of Coupler    3) Mode of fiber



### Features

- Standard user interface, be made of high impact plastic
- Easy operation and maintenance
- Can accommodate 1x8 or 1x4 PLC splitter
- Anti-UV, Ultra Violet resistant and rainfall resistant
- Wall and pole mountable
- 2 inlet ports, 2 outlet ports for ordinary cable or drop cable

### Specifications

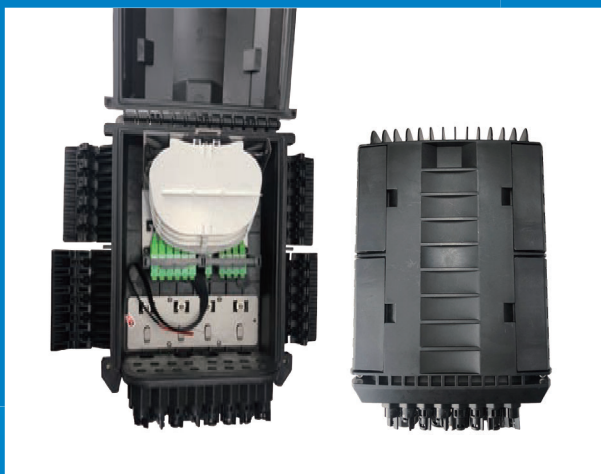
| Model                  |       | FTMB-ABS-XXD Series                                                                |
|------------------------|-------|------------------------------------------------------------------------------------|
| For Number of Couplers |       | Up to 24                                                                           |
| Dimension              | Outer | Outer: 380 x 305 x 130 mm                                                          |
|                        | Inner | Inner: 360 x 250 x 100 mm                                                          |
| Max Capacity           | LC    | 24 Capacity / 48 cores (Max.)                                                      |
|                        | SC    | 24 Capacity / 24 cores (Max.)                                                      |
|                        | ST    | 24 Capacity / 24 cores (Max.)                                                      |
|                        | FC    | 24 Capacity / 24 cores (Max.)                                                      |
| Operating Temperature  |       | -40 °C ~ + 55 °C                                                                   |
| Atmospheric Pressure   |       | 62 Kpa ~ 106 kpa                                                                   |
| Material               |       | ABS                                                                                |
| Installation           |       | Wall-mounting or pole-mounting                                                     |
| Application            |       | Local Area Network, CATV Network, FTTx System, Wide Area Network, Test Instruments |

### How to Order :

| MODEL                     |            |                                                                                                              |                            |                  |  |
|---------------------------|------------|--------------------------------------------------------------------------------------------------------------|----------------------------|------------------|--|
| FTMB-ABS-XX D - XX - XX X |            |                                                                                                              |                            |                  |  |
| NO. OF COUPLERS           | ADAPTER    | MODE                                                                                                         | CONNECTOR                  | POLISH           |  |
| 01-24                     | D : Duplex | SM : Single Mode<br>M1 : Multi-Mode OM1<br>M2 : Multi-Mode OM2<br>M3 : Multi-Mode OM3<br>M4 : Multi-Mode OM4 | 1) SC 2) LC<br>3) FC 4) ST | A: APC<br>U: UPC |  |

### Remember to State :

1) Number of Core(s) 2) Type of Coupler 3) Mode of fiber



### Features

- Designed to seal without screws
- The compact size and flip-over cover bring easy operation as well as complete function
- The splice trays are jointed with a hinge at one side, which makes the operation in each tray easier
- It is designed to prevent from operation damage

### Specifications

| Model                     |    | FTMB-IP68-XXD Series          |
|---------------------------|----|-------------------------------|
| For Number of Couplers    |    | Up to 24                      |
| Dimension                 |    | 380 x 245 x 130 mm            |
| Weight                    |    | 5 kg                          |
| Max Capacity              | LC | 24 Capacity / 48 cores (Max.) |
|                           | SC | 24 Capacity / 24 cores (Max.) |
|                           | ST | 24 Capacity / 24 cores (Max.) |
|                           | FC | 24 Capacity / 24 cores (Max.) |
| Splice Tray Quantity      |    | 1 ~ 4                         |
| IP Grading                |    | IP68                          |
| Environmental Temperature |    | -40 °C ~ 65 °C                |

### How to Order :

| MODEL                      |            |                                                                                                                                                 |                            |                                  |
|----------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|
| FTMB-IP68-XX D - XX - XX X |            |                                                                                                                                                 |                            |                                  |
| NO. OF COUPLERS            | ADAPTER    | MODE                                                                                                                                            | CONNECTOR                  | POLISH                           |
| 01-24                      | D : Duplex | <b>SM</b> : Single Mode<br><b>M1</b> : Multi-Mode OM1<br><b>M2</b> : Multi-Mode OM2<br><b>M3</b> : Multi-Mode OM3<br><b>M4</b> : Multi-Mode OM4 | 1) SC 2) LC<br>3) FC 4) ST | <b>A</b> : APC<br><b>U</b> : UPC |

### Remember to State :

1) Number of Core(s)    2) Type of Coupler    3) Mode of fiber



### Features

- Comply with ANSI/EIA, RS-310-D; IEC297-2; DIN41491: PART 1; DIN41491: PART 7; GB/T3047.2-92 standard, compatible with 19" international standard, metric system and ETSI standard
- Steel Construction
- Sliding rail design for easy access
- LC, ST, FC, SC & Adapter available

### Specifications

| Model                 |    | FP Series                     |
|-----------------------|----|-------------------------------|
| Size                  |    | 19", 1U                       |
| For Number of Coupler |    | Up to 24                      |
| Max Capacity          | LC | 24 Capacity / 48 cores (Max.) |
|                       | SC | 24 Capacity / 24 cores (Max.) |
|                       | ST | 24 Capacity / 24 cores (Max.) |
|                       | FC | 24 Capacity / 24 cores (Max.) |
| Color                 |    | Black                         |
| Dimension             |    |                               |

### How to Order :

| MODEL                           | FP- XX D - XX - XX X                                                                                                        |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>NO. OF COUPLERS</b><br>01-24 | <b>ADAPTER</b><br>D : Duplex                                                                                                |
|                                 | <b>MODE</b><br>SM : Single Mode<br>M1 : Multi-Mode OM1<br>M2 : Multi-Mode OM2<br>M3 : Multi-Mode OM3<br>M4 : Multi-Mode OM4 |
|                                 | <b>CONNECTOR</b><br>1) SC 2) LC<br>3) FC 4) ST                                                                              |
|                                 | <b>POLISH</b><br>A: APC<br>U: UPC                                                                                           |

### Remember to State :

1) Number of Core(s)    2) Type of Coupler    3) Mode of fiber



## Features

- Transmits HDMI video and audio signals up to 20km over one fiber optic cable
- Support video resolution up to 1920 x 1080P@60Hz
- Compliance with HDMI 1.3 and HDCP 1.2
- Auto-match source and display device
- Built-in automatic adjustment system, make the image smooth, clear and stable
- Built-in ESD protection system
- Simple to install, plug and play

## Specifications

| Model         |                       | EH0106T, EH0106R                   |
|---------------|-----------------------|------------------------------------|
| Video         | Standards             | HDMI 1.3, HDCP 1.2                 |
|               | Maximum Pixel Clock   | 165 MHz                            |
|               | Maximum Data Rate     | 6.75 Gbps                          |
|               | Resolution Range      | 1920 x 1080@60Hz, 3D signal        |
|               | Connector             | Female HDMI Type A                 |
|               | Impedance             | 100 Ω                              |
| Optical Fiber | Interface             | SFP model-LC connector             |
|               | Fiber Type            | Single-mode Multi-model (Optional) |
|               | Wavelength            | Single Mode 1310 nm                |
|               |                       | Multimode 850nm (Optional)         |
|               | Interface Bandwidth   | 10.2 Gbps                          |
|               | Transmission Distance | Single Mode fiber Standard 2 km    |
| General       |                       | Maximum 10 km                      |
|               |                       | OM3 Multimode fiber < 300 m        |
|               | Power Supply          | The Power Adapter: DC 5V / 2A      |
|               | Power Dissipation     | MAX 5 W                            |
|               | Temperature Operating | -5 °C ~ + 70 °C                    |
|               | Humidity Operating    | 5 % ~ 90 %                         |
|               | Dimension             | 93.5 x 71 x 25 mm                  |



### Features

- One side Micro HDMI type D (with D to A adaptor) to One Side Type A HDMI optical armoured cable
- Fully HDCP compliant to provide highest level of signal quality
- Fully compliant to V2.0 specification
- Supports Transfer Digital Audio and Video signals at warp speed of 18 Gigabits per second
- 3D Support, 4K x 2K@60Hz Support
- No Delay

**4K**  
ULTRA HD

**3D**  
Ready

**HDMI**  
HDMI 2.0

**18Gbps**  
Speed

**Armour**  
Fiber

### Specifications

| Model                 | HDMI2.0_MA_AOC Series                                                                                                                         |                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Units                 | Transmitter (Source)                                                                                                                          | Receiver (Sink)         |
| HDCP                  | HDCP 2.2 Fully support bidirectional EDID and HDCP communication                                                                              |                         |
| Video Bandwidth       | 6 Gbps/x3 channel (Max) + clock                                                                                                               |                         |
| Clock Speed           | 600 MHz                                                                                                                                       |                         |
| Total Broadband       | Maximum 18 Gbps                                                                                                                               |                         |
| Resolution & Distance | PC: 4K up to 100 meters                                                                                                                       |                         |
|                       | HDTV: 4K (60P), 1080p deep color, 1080i, 720p, 480p                                                                                           |                         |
|                       | 3D Full HD 1920 x 1080 up to 100 m ~ 150 m                                                                                                    |                         |
| O / E Converter       | 4 channel 850nm VCSEL array                                                                                                                   | 4 channel GaAs PD array |
| Connector Type        | HDMI Type D to A one end + Type A one end                                                                                                     |                         |
| Cable Type            | Hybrid type with OM3 fiber and copper wire                                                                                                    |                         |
| Power Consumption     | 250 mW (Max)                                                                                                                                  |                         |
| Working Temperature   | 0 °C ~ 70 °C                                                                                                                                  |                         |
| Storage Temperature   | -20 °C ~ 70 °C                                                                                                                                |                         |
| Relative Humidity     | 5 % ~ 90 %                                                                                                                                    |                         |
| Cable Outer Diameter  | 5.8 mm                                                                                                                                        |                         |
| Jacket Outer Material | TPU                                                                                                                                           |                         |
| Differential Input    | 100 Ω (Typ)                                                                                                                                   |                         |
| Cable Length          | 10 m / 15 m / 20 m / 30 m / 40 m / 50 m / 60 m / 70 m / 80 m / 90 m / 100 m (With +/- 30cm tolerance)<br>Custom length available (Up to 150m) |                         |
| Outer Diameter        | 5.8 mm                                                                                                                                        |                         |
| Power Supply          | Non external power required                                                                                                                   |                         |
| Construction          |                                                                                                                                               |                         |



## Features

- 8-bit digital encoded and non-compression broadcast quality video transmission
- Supports no-damage regenerative trunk of video
- Constant input optical power, and large dynamic range
- Special ASIC design
- Hot-swap function
- Stand-alone type or card-type installed in 19" 2U or 4U rack-mount chassis

## Specifications

| Model                             | EV1-T/R                   | EV4-T/R                                                                 | EV8-T/R           |
|-----------------------------------|---------------------------|-------------------------------------------------------------------------|-------------------|
| Video Port                        | 1                         | 4                                                                       | 8                 |
| Video Interface                   | BNC                       |                                                                         |                   |
| Video bandwidth                   | 8 MHz                     |                                                                         |                   |
| Automatic Compatible Video System | PAL, NTSC, SECAM          |                                                                         |                   |
| Video In/Output Impedance         | 75 $\Omega$ (Unbalance)   |                                                                         |                   |
| Video In/Output Voltage           | 1.0 Vp-p, max 1.5 Vp-p    |                                                                         |                   |
| Video Signal-to-noise Ratio       | $\geq 65$ dB              |                                                                         |                   |
| Differential Gain                 | $< 1\%$                   |                                                                         |                   |
| Differential Phase                | $< 0.7^\circ$             |                                                                         |                   |
| Fiber-optic Specification         | Connector                 | FC / ST / SC                                                            |                   |
|                                   | Transmitter               | Tx Power: -15 ~ -8 dBm                                                  |                   |
|                                   | Receiver Sensitivity      | $\leq -35$ dBm                                                          |                   |
|                                   | Transmission Distance     | 2 km (Multi Mode Fiber), 20 / 40 / 60 / 80 / 100 km (Single Mode Fiber) |                   |
| Dimensions (L x W x H)            | 105 x 108 x 27 mm         | 105 x 108 x 27 mm                                                       | 175 x 173 x 50 mm |
| Weight                            | 1 KG                      |                                                                         |                   |
| Operating Voltage                 | DC 5V, AC 100 ~ 240 V     |                                                                         |                   |
| Operating Temperature             | 0 ~ 50 $^\circ\text{C}$   |                                                                         |                   |
| Storing Temperature               | -40 ~ 85 $^\circ\text{C}$ |                                                                         |                   |
| Humidity                          | 0% ~ 95% non-condensing   |                                                                         |                   |



## Features

- Complies to IEEE 802.3af PoE standard
- Auto-detection and protection of non-standard PoE devices
- Internal power supply

## Specifications

| Model                      | ENS-8POE                                           | ENS-16POE/GS                                                             | ENS-24POE/GS                                                             |
|----------------------------|----------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 10 / 100 Mbps Copper Ports | 8 x 10 / 100 Base-TX PoE ports +<br>2 Up-link port | 16 x 10 / 100 Base-TX PoE ports<br>8 x 10 / 100 Base-TX ports            | 24 x 10 / 100 Base-TX PoE ports                                          |
| 1000 Mbps Copper Ports     | ---                                                | 2 x 10 / 100 / 1000 Base-TX ports                                        | 2 x 10 / 100 / 1000 Base-TX ports                                        |
| SFP / mini-GBIC Slots      | ---                                                | 2 x 1000 Base-SX / LX                                                    | 2 x 1000 Base-SX / LX                                                    |
| Switch Fabric              | ---                                                | 8.8 Gbps / non-blocking                                                  | 8.8 Gbps / non-blocking                                                  |
| Switch Throughput          | ---                                                | 6.547 Mpps @ 64 bytes                                                    | 6.547 Mpps @ 64 bytes                                                    |
| Address Table              | ---                                                | 8K entries                                                               | 8K entries                                                               |
| Share Data Buffer          | ---                                                | 512K bytes                                                               | 512K bytes                                                               |
| Flow Control               | IEEE 802.3X Pause Frame for Full-duplex            | IEEE 802.3X Pause Frame for Full-duplex<br>Back pressure for Half-duplex | IEEE 802.3X Pause Frame for Full-duplex<br>Back pressure for Half-duplex |
| LED                        | Power, 10 / 100Mbps, PoE Status                    | Power, 10 / 100Mbps, PoE Status,<br>1000Mbps                             | Power, 10 / 100Mbps, PoE Status,<br>1000Mbps                             |
| Buffer Memory              | 64 KB                                              | ---                                                                      | ---                                                                      |
| Reset Button               | ---                                                | < 5 sec: System Reboot<br>> 5 sec: Factory Default                       | < 5 sec: System Reboot<br>> 5 sec: Factory Default                       |
| Dimension (W x D x H)      | 250 x 150 x 44mm                                   | 440 x 220 x 44mm, 1U height                                              | 440 x 220 x 44mm, 1U height                                              |
| Weight                     | 800 g                                              | 4.0 Kg                                                                   | 4.0 Kg                                                                   |
| Power Requirement          | 100 ~ 240 VAC                                      | 100 ~ 240 VAC                                                            | 100 ~ 240 VAC                                                            |
| Power Consumption          | 150 W (Max)                                        | 350 W (Max)                                                              | 350 W (Max)                                                              |
| Reliability MTBF           | 296,000 hours @ 25°C                               | 296,000 hours @ 25 °C                                                    | 296,000 hours @ 25 °C                                                    |
| PoE Standard               | IEEE802.3af, Compliance RoHS<br>Compliant, CE      | IEEE802.3af, IEEE802.3at Power over<br>Ethernet / PSE                    | IEEE802.3af, IEEE802.3at Power over<br>Ethernet / PSE                    |
| Output Power Voltage       | 48 ~ 54 VDC                                        | 52 VDC                                                                   | 52 VDC                                                                   |
| User Port Power            | Max. 30 W                                          | 30 W                                                                     | 30 W                                                                     |
| Total Power                | 150 W                                              | 350 W                                                                    | 350 W                                                                    |



## Features

- UP to 1.25Gbps data rate
- Duplex LC receptacle optical interface compliant
- Receiver loss of signal output
- AC coupling of PECL signals
- International Class 1 laser safety
- Transmitter disable input
- Application: Gigabit ethernet, switch to switch interface, Gigabit fiber Channel, switched backplane applications
- Standards: Compliant with SFP MSA (INF-8074i), SFF-8472 v9.3, IEEE802.3z Gigabit Ethernet, ITU-T G.695

## Specifications

| Model    |                                  | FTRM-SFP-550M      | FTRM-SFP-20KM      | FTRM-SFP-40KM      | FTRM-SFP-80KM      | FTRM-SFP-120KM     |
|----------|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Technica | Supply Current                   |                    |                    |                    |                    |                    |
|          | Tx Section                       | 300 mA             | 300 mA             | 300 mA             | 300 mA             | 300 mA             |
|          | Rx Section                       | 300 mA             | 300 mA             | 300 mA             | 300 mA             | 300 mA             |
|          | Receiver Sensitivity             |                    |                    |                    |                    |                    |
|          | 550 m                            | - 18 dBm           | ---                | ---                | ---                | ---                |
|          | 1310 nm 20 km                    | ---                | -20 dBm            | ---                | ---                | ---                |
|          | 1550 nm 40 km                    | ---                | ---                | - 20 dBm           | ---                | ---                |
|          | 1310 nm 40 km                    | ---                | ---                | - 23 dBm           | ---                | ---                |
|          | 1550 nm 80 km                    | ---                | ---                | ---                | - 23 dBm           | ---                |
|          | CWDM 80 km                       | ---                | ---                | ---                | - 24 dBm           | ---                |
|          | 1550 nm 120 km APD               | ---                | ---                | ---                | ---                | - 31 dBm           |
|          | CWDM 120 km                      | ---                | ---                | ---                | ---                | - 32 dBm           |
| General  | Overload Input Power             |                    |                    |                    |                    |                    |
|          | 550 m                            | 0 dBm              | ---                | ---                | ---                | ---                |
|          | 15 km ~ 80 km PIN                | ---                | - 3 dBm            | - 3 dBm            | - 3 dBm            | ---                |
|          | 120 km APD                       | ---                | ---                | ---                | ---                | - 9 dBm            |
|          | Center Wave Length               | 1210 nm            | 1210 nm            | 1210 nm            | 1210 nm            | 1210 nm            |
|          | Transmission Range (up to 20 Km) | 9 / 125 um         | 9 / 125 um         | 9 / 125 um         | 9 / 125 um         | 9 / 125 um         |
|          | Connector                        | LC type            | LC type            | LC type            | LC type            | LC type            |
|          | Operating Temperature            | - 10 °C ~ 70 °C    | -10 °C ~ 70 °C     | - 10 °C ~ 70 °C    | - 10 °C ~ 70 °C    | -10 °C ~ 70 °C     |
|          | Power Supply Voltage             | 3.135 V ~ 3.465 V  | 3.135 V ~ 3.465 V  | 3.135 V ~ 3.465 V  | 3.135 V ~ 3.465 V  | 3.135 V ~ 3.465 V  |
|          | Data Rate                        | 1.25 / 1.0625 Gb/s | 1.25 / 1.0625 Gb/s | 1.25 / 1.0625 Gb/s | 1.25 / 1.0625 Gb/s | 1.25 / 1.0625 Gb/s |
| General  | Storage Temperature Range        | - 40 °C ~ + 85 °C  | - 40 °C ~ + 85 °C  | - 40 °C ~ + 85 °C  | -40 °C ~ +85 °C    | - 40 °C ~ + 85 °C  |
|          | Relative Humidity                | 5 % ~ 95 %         | 5 % ~ 95 %         | 5 % ~ 95 %         | 5 % ~ 95 %         | 5 % ~ 95 %         |
|          | Power Supply Voltage             | - 0.5 V + 4 V      | - 0.5 V + 4 V      | -0.5V + 4V         | - 0.5 V + 4 V      | - 0.5 V + 4 V      |
|          | Dimension (W x D x H)            | 60 x 14 x 13 mm    | 60 x 14 x 13 mm    | 60 x 14 x 13 mm    | 60 x 14 x 13 mm    | 60 x 14 x 13 mm    |
|          |                                  |                    |                    |                    |                    |                    |



## Features

- In conformity to IEEE802.3 10base-T, IEEE802.3u 100 base-TX/FX, IEEE802.3ab 1000 base-T, IEEE802.3Z 1000base-SX/LX, IEEE802.1a, IEEE802.1PQOS, IEEE802.1d spanning tree
- MDI/MDI-X auto negotiation
- Supports 2U 19" system chassis, holds up to 14pcs standalone type media converter or 16pcs card based media converter
- Supports 10/100Mbps and 10/100/1000M full/half duplex and auto-negotiations, easy upgrades
- Supports VLAN transmission

## Specifications

| EETF Series        |                                             |                     |                                |
|--------------------|---------------------------------------------|---------------------|--------------------------------|
| Model              |                                             |                     |                                |
| Rate               | Self-adaptive 10 / 100M or 10 / 100 / 1000M | Power               | 2.5 W                          |
| Protocol Supported | IEEE802.3 / IEEE802.3U etc.                 | Power Supply        | DC 5V / 1 A                    |
| Fiber Type         | Single / dual fiber                         | Working Temperature | 0 °C ~ 50 °C                   |
| Optic Mode         | Single / multimode                          | Working Humidity    | 5 % ~ 95 %                     |
| Transmission Mode  | SX / DX                                     | Storage Temperature | - 40 °C ~ 70 °C                |
| Ethernet Interface | RJ-45                                       | Storage Humidity    | 5 % ~ 95 % (no-condensing)     |
| Optic Interface    | SC / FC / ST                                | Weight              | 0.38 Kg                        |
| Optic Wavelength   | 850 nm, 1310 nm, 1550 nm (Options)          | Dimensions          | 94 x 70.6 x 26.5 mm for device |
| BER                | < 1 / 1000000000                            |                     |                                |
| MTBF               | 3 years                                     |                     |                                |

| Model                 | EETFMM-2       | EETFSM-25      | EETFGM               | EETFGS-20            |
|-----------------------|----------------|----------------|----------------------|----------------------|
| Optic Fiber           | MM             | SM             | MM                   | SM                   |
| Wavelength            | 850/1310 nm    | 1310 nm        | 850 nm               | 1310 nm              |
| Power                 | - 20 ~ -12 dBm | - 15 ~ - 7 dBm | - 9.5 ~ 4 dBm        | - 6 ~ - 1 dBm        |
| Rx Sensitivity        | - 30 dBm       | - 34 dBm       | - 17 dBm             | - 21 dBm             |
| Transmission Distance | 2 KM           | 25 KM          | 0.55 KM              | 20 KM                |
| Loss Allowed          | 10 dBm         | 19 dBm         | 8 dBm                | 15 dBm               |
| Speed                 | 10 / 100 MBps  | 10 / 100 MBps  | 10 / 100 / 1000 MBps | 10 / 100 / 1000 MBps |



PPCAT524 / PPCAT624



PPCATB24



PPCATB48

### Features

- Easy to install
- Durable, reliable and flexible
- Cost effective
- High quality



### Specifications

| Model                            | PPCAT524                                                                                                                                              | PPCAT624                                                                                                                                              |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                             | CAT5e                                                                                                                                                 | CAT6                                                                                                                                                  |
| Panel, Bracket                   | SPCC                                                                                                                                                  | SPCC                                                                                                                                                  |
| Jack Housing                     | PBT UL94V-0                                                                                                                                           | PBT UL94V-0                                                                                                                                           |
| Spring PIN                       | Phosphor Bronze C5210, t=0.3 mm. Plating Scatterde gold over 60u" Nickel undercoat, besides Plating 50u" Gold over the plated surface on contact area | Phosphor Bronze C5210, t=0.3 mm. Plating Scatterde gold over 60u" Nickel undercoat, besides Plating 50u" Gold over the plated surface on contact area |
| PIN Holder                       | PBT UL94V-0. PCB: FR-4 IDC Housing: PC UL94V-0                                                                                                        | PBT UL94V-0. PCB: FR-4 IDC Housing: PC UL94V-0                                                                                                        |
| IDC Contact                      | Phosphor Bronze C5191, t=0.4 mm, 200u" Matte Tin over 100u" soft Nickel undercoat                                                                     | Phosphor Bronze C5191, t=0.4 mm, 200u" Matte Tin over 100u" soft Nickel undercoat                                                                     |
| Insertion Life                   | 750 mating cycles with FCC compliant RJ-45 plug                                                                                                       | 750 mating cycles with FCC compliant RJ-45 plug                                                                                                       |
| Contact Force                    | 100 grams with FCC compliant RJ-45 plug                                                                                                               | 100 grams with FCC compliant RJ-45 plug                                                                                                               |
| Plug Retention Force             | 11 lbf min                                                                                                                                            | 11 lbf min                                                                                                                                            |
| Line Tool                        | 110 & KRONE line tool                                                                                                                                 | 110 & KRONE line tool                                                                                                                                 |
| Durability                       | 200 termination cycles                                                                                                                                | 200 termination cycles                                                                                                                                |
| Contact Compatibility            | Accommodates 22 ~ 26 AWG solid / 24 AWG stranded                                                                                                      | Accommodates 22 ~ 26 AWG solid / 24 AWG stranded                                                                                                      |
| Operating Temperature            | -10 °C ~ 60 °C                                                                                                                                        | -10 °C ~ 60 °C                                                                                                                                        |
| Storage Temperature              | -40 °C ~ 68 °C                                                                                                                                        | -40 °C ~ 68 °C                                                                                                                                        |
| Humidity                         | 10 % ~ 90 % RH                                                                                                                                        | 10 % ~ 90 % RH                                                                                                                                        |
| Insulation Resistance            | 500 MΩ.                                                                                                                                               | 500 MΩ.                                                                                                                                               |
| Dielectric with Standing Voltage | 1000 VAC.                                                                                                                                             | 1000 VAC.                                                                                                                                             |
| DC Current Rating                | 1.5 Amps .                                                                                                                                            | 1.5 Amps .                                                                                                                                            |
| DC Resistance                    | 0.1 Ω.                                                                                                                                                | 0.1 Ω.                                                                                                                                                |
| Contact Resistance               | 20 mΩ.                                                                                                                                                | 20 mΩ.                                                                                                                                                |

| Model                 | PPCATB24             | PPCATB48            |
|-----------------------|----------------------|---------------------|
| Type                  | CAT5e / CAT6 / CAT6A | CAT5 / CAT6 / CAT6A |
| Ports                 | 24                   | 48                  |
| Size                  | 1U, 19"              | 1U, 19"             |
| Operating Temperature | -10 °C ~ 60 °C       | -10 °C ~ 60 °C      |
| Storage Temperature   | -40 °C ~ 68 °C       | -40 °C ~ 68 °C      |
| Humidity              | 10 % ~ 90 % RH       | 10 % ~ 90 %RH       |

\*Keystone not include



### Features

- Construction: U/UTP
- Conductor: 24 AWG, Solid-Bare Copper
- Standard: ISO/IEC11801, TIA-568-C.2
- ISO9001 Certified Manufacturing Plant

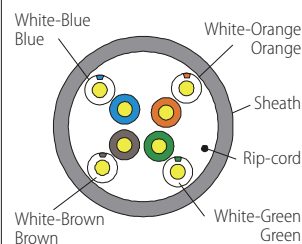


### Specifications

| Model                              |                                   | CSEUSG                                                | CSEUSG_LSZH                                           |
|------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Construction                       |                                   | U/UTP                                                 | U/UTP                                                 |
| Conductor                          | Material                          | Solid-Bare Copper                                     | Solid-Bare Copper                                     |
|                                    | Nom.O.D.                          | 0.500 ± 0.005 mm                                      | 0.500 ± 0.005 mm                                      |
| Insulation                         | Material & Diameter               | HDPE (0.88 ± 0.05 mm)                                 | HDPE (0.88 ± 0.05 mm)                                 |
| Sheath                             | Thickness                         | 0.50 ± 0.05 mm                                        | 0.50 ± 0.05 mm                                        |
|                                    | External O.D.                     | 5.0 ± 0.4 mm                                          | 5.0 ± 0.4 mm                                          |
|                                    | Material                          | PVC (Complies RoHS)                                   | LSZH (Complies RoHS)                                  |
| Rip-cord                           |                                   | Yes                                                   | Yes                                                   |
| Physical Properties (Before Aging) | Tensile Strength                  | ≥ 13.5 Mpa                                            | ≥ 10.0 Mpa                                            |
|                                    | Elongation                        | ≥ 150 %                                               | ≥ 125 %                                               |
|                                    | Aging Period                      | 100 °C x 24h x 7d                                     | 100 °C x 24h x 7d                                     |
| Physical Properties (After Aging)  | Tensile Strength                  | ≥ 12.5 Mpa                                            | ≥ 8 Mpa                                               |
|                                    | Elongation                        | ≥ 125 %                                               | ≥ 100 %                                               |
|                                    | Cold Bend                         | -20 ± 2 °C x 4h,<br>8 x Cable O.D., No visible cracks | -20 ± 2 °C x 4h,<br>8 x Cable O.D., No visible cracks |
| Electrical Characteristics (20°C)  | Impedance                         | 1.0-100.0MHz: 100 Ω ± 15 Ω                            | 1.0-100.0MHz: 100 Ω ± 15 Ω                            |
|                                    | Delay Skew                        | 1.0-100.0MHz: ≤45 ns / 100 m                          | 1.0-100.0MHz: ≤45 ns / 100m                           |
|                                    | DC Resistance                     | Max. 9.5 Ω / 100 m                                    | Max. 9.38 Ω / 100 m                                   |
|                                    | DC Conductor Resistance Unbalance | Max. 5.0 %                                            | Max. 5.0 %                                            |
| Length                             |                                   | 100 Yards / 305 M                                     | 305 M                                                 |

### Construction (UTP)

#### 4 Twisted Pair Cable



#### Pair Identification

- Pair 1** White-Blue / Blue  
**Pair 2** White-Orange / Orange  
**Pair 3** White-Green / Green  
**Pair 4** White-Brown / Brown



|                      | Frequency (MHz) | Return Loss (≥dB) | Attenuation (≤dB) | NEXT (≥dB) | PHASE DELAY (≤ns) | PSNEXT (≥dB) | ELFEXT (≥dB) | PSELFEXT (≥dB) |
|----------------------|-----------------|-------------------|-------------------|------------|-------------------|--------------|--------------|----------------|
| Electric Performance | 1               | 20.0              | 2.0               | 65.3       | 570.00            | 62.3         | 63.8         | 60.8           |
|                      | 4               | 23.0              | 4.1               | 56.3       | 552.00            | 53.3         | 51.8         | 48.8           |
|                      | 8               | 24.5              | 5.8               | 51.8       | 546.73            | 48.8         | 45.7         | 42.7           |
|                      | 10              | 25.0              | 6.5               | 50.3       | 545.38            | 47.3         | 43.8         | 40.8           |
|                      | 16              | 25.0              | 8.2               | 47.2       | 543.00            | 44.4         | 39.7         | 36.7           |
|                      | 20              | 25.0              | 9.3               | 45.8       | 542.05            | 42.8         | 37.8         | 34.8           |
|                      | 25              | 24.3              | 10.4              | 44.3       | 541.20            | 41.3         | 35.8         | 32.8           |
|                      | 31.25           | 23.6              | 11.7              | 42.9       | 540.44            | 39.9         | 33.9         | 30.9           |
|                      | 62.5            | 21.5              | 17.0              | 38.4       | 538.55            | 35.4         | 27.9         | 24.9           |
|                      | 100             | 20.1              | 22.0              | 35.3       | 537.60            | 32.3         | 23.8         | 20.8           |



### Features

- Construction: F/UTP
- Conductor: 24 AWG, Solid-Bare Copper
- Standard: ISO/IEC11801, TIA-568-C.2
- ISO9001 Certified Manufacturing Plant

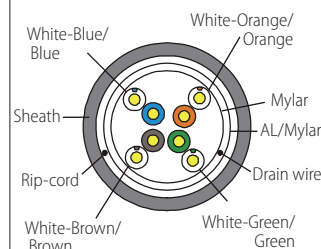


### Specifications

| Model                                        |                                   | CSEFSG_LSZH                                        |
|----------------------------------------------|-----------------------------------|----------------------------------------------------|
| Construction                                 |                                   | F/UTP                                              |
| Conductor                                    | Material                          | Solid-Bare Copper                                  |
|                                              | Norm.O.D.                         | 0.500 ± 0.005 mm                                   |
| Insulation                                   | Material & Diameter               | HDPE (1.00 ± 0.05 mm)                              |
| Screening Material                           |                                   | Mylar+AL/Mylar                                     |
| Sheath                                       | Thickness                         | 0.55 ± 0.05 mm                                     |
|                                              | External O.D.                     | 6.2 ± 0.4 mm                                       |
|                                              | Material                          | LSZH (Complies RoHS)                               |
| Rip-cord                                     |                                   | Yes                                                |
| Drain Wire                                   |                                   | Yes                                                |
| Sheath Physical Properties<br>(Before Aging) | Tensile Strength                  | ≥ 10.0 Mpa                                         |
|                                              | Elongation                        | ≥ 125 %                                            |
|                                              | Aging Period                      | 100 °C x 24h x 7d                                  |
| Sheath Physical Properties<br>(After Aging)  | Tensile Strength                  | ≥ 8 Mpa                                            |
|                                              | Elongation                        | ≥ 100 %                                            |
|                                              | Cold Bend                         | -20 ± 2 °C x 4h, 8 x Cable O.D., No visible cracks |
|                                              |                                   |                                                    |
| Electrical Characteristics<br>(20°C)         | Impedance                         | 1.0-100.0MHz: 100 Ω ± 15 Ω                         |
|                                              | Delay Skew                        | 1.0-100.0MHz: ≤ 45 ns / 100 m                      |
|                                              | Unbalanced-to-ground capacitance  | Max. 330 pf / 100 m                                |
|                                              | DC Resistance                     | Max. 9.5 Ω / 100 m                                 |
|                                              | DC Conductor Resistance Unbalance | Max. 5.0 %                                         |
| Length                                       |                                   | 305 M                                              |

### Construction (F/UTP)

#### 4 Twisted Pair Cable



#### Pair Identification

- Pair 1 White-Blue / Blue  
 Pair 2 White-Orange / Orange  
 Pair 3 White-Green / Green  
 Pair 4 White-Brown / Brown



| Electric Performance | Frequency (MHz) | Return Loss (≥dB) | Attenuation (≤dB) | NEXT (≥dB) | PHASE DELAY (≤ns) | PSNEXT (≥dB) | ELFEXT (≥dB) | PSELFEXT (≥dB) |
|----------------------|-----------------|-------------------|-------------------|------------|-------------------|--------------|--------------|----------------|
|                      | 1               | 20.0              | 2.0               | 65.3       | 570.00            | 62.3         | 63.8         | 60.8           |
|                      | 4               | 23.0              | 4.1               | 56.3       | 552.00            | 53.3         | 51.8         | 48.8           |
|                      | 8               | 24.5              | 5.8               | 51.8       | 546.73            | 48.8         | 45.7         | 42.7           |
|                      | 10              | 25.0              | 6.5               | 50.3       | 545.38            | 47.3         | 43.8         | 40.8           |
|                      | 16              | 25.0              | 8.2               | 47.2       | 543.00            | 44.4         | 39.7         | 36.7           |
|                      | 20              | 25.0              | 9.3               | 45.8       | 542.05            | 42.8         | 37.8         | 34.8           |
|                      | 25              | 24.3              | 10.4              | 44.3       | 541.20            | 41.3         | 35.8         | 32.8           |
|                      | 31.25           | 23.6              | 11.7              | 42.9       | 540.44            | 39.9         | 33.9         | 30.9           |
|                      | 62.5            | 21.5              | 17.0              | 38.4       | 538.55            | 35.4         | 27.9         | 24.9           |
|                      | 100             | 20.1              | 22.0              | 35.3       | 537.60            | 32.3         | 23.8         | 20.8           |



### Features

- Construction: U/UTP
- Conductor: 23 AWG, Solid-Bare Copper
- Standard: ISO/IEC11801, TIA-568-C.2
- ISO9001 Certified Manufacturing Plant

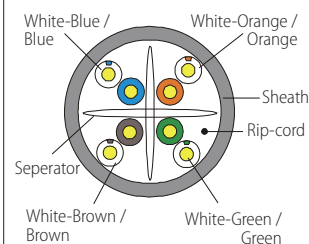


### Specifications

| Model                              |                                   | C6USG                                                  | C6USG_LSZH                                             |
|------------------------------------|-----------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Construction                       |                                   | U/UTP                                                  | U/UTP                                                  |
| Conductor                          | Material                          | Solid-Bare Copper                                      | Solid-Bare Copper                                      |
|                                    | Nom.O.D.                          | 0.550 ± 0.005 mm                                       | 0.550 ± 0.005 mm                                       |
| Insulation                         | Material & Diameter               | HDPE (0.98 ± 0.05 mm)                                  | HDPE (0.98 ± 0.05 mm)                                  |
| Sheath                             | Thickness                         | 0.55 ± 0.05 mm                                         | 0.55 ± 0.05 mm                                         |
|                                    | External O.D.                     | 6.1 ± 0.4 mm                                           | 6.1 ± 0.4 mm                                           |
|                                    | Material                          | PVC (Complies RoHS)                                    | LSZH (Complies RoHS)                                   |
| Rip-cord                           |                                   | Yes                                                    | Yes                                                    |
| Physical Properties (Before Aging) | Tensile Strength                  | ≥ 13.5 Mpa                                             | ≥ 10 Mpa                                               |
|                                    | Elongation                        | ≥ 150 %                                                | ≥ 125 %                                                |
|                                    | Aging Period                      | 100 °C x 24h x 7d                                      | 100 °C x 24h x 7d                                      |
| Physical Properties (After Aging)  | Tensile Strength                  | ≥ 12.5 Mpa                                             | ≥ 8 Mpa                                                |
|                                    | Elongation                        | ≥ 125 %                                                | ≥ 100 %                                                |
|                                    | Cold Bend                         | - 20 ± 2 °C x 4h,<br>8 x Cable O.D., No visible cracks | - 20 ± 2 °C x 4h,<br>8 x Cable O.D., No visible cracks |
| Electrical Characteristics (20°C)  | Impedance                         | 1.0-250.0MHz: 100 Ω ± 15 Ω                             | 1.0-250.0MHz: 100 Ω ± 15 Ω                             |
|                                    | Delay Skew                        | 1.0-250.0MHz: ≤ 45 ns / 100 m                          | 1.0-250.0MHz: ≤ 45 ns / 100m                           |
|                                    | DC Resistance                     | Max. 9.38 Ω / 100 m                                    | Max. 9.5 Ω / 100 m                                     |
|                                    | DC Conductor Resistance Unbalance | Max. 5.0 %                                             | Max. 5.0 %                                             |
| Length                             |                                   | 100 Yards / 305 M                                      | 305 M                                                  |

### Construction (UTP)

#### 4 Twisted Pair Cable



#### Pair Identification

|        |                       |
|--------|-----------------------|
| Pair 1 | White-Blue / Blue     |
| Pair 2 | White-Orange / Orange |
| Pair 3 | White-Green / Green   |
| Pair 4 | White-Brown / Brown   |

|                      | Frequency (MHz) | Return Loss (≥dB) | Attenuation (≤dB) | NEXT (≥dB) | PHASE DELAY (≤ns) | PSNEXT (≥dB) | ELFEXT (≥dB) | PSELFEXT (≥dB) |
|----------------------|-----------------|-------------------|-------------------|------------|-------------------|--------------|--------------|----------------|
| Electric Performance | 1               | 20.0              | 2.03              | 74.3       | 570.00            | 72.3         | 67.8         | 64.8           |
|                      | 4               | 23.0              | 3.78              | 65.3       | 552.00            | 63.3         | 55.8         | 52.8           |
|                      | 8               | 24.5              | 5.32              | 60.8       | 546.73            | 58.8         | 49.7         | 46.7           |
|                      | 10              | 25.0              | 5.95              | 59.3       | 545.38            | 57.3         | 47.8         | 44.8           |
|                      | 16              | 25.0              | 7.55              | 56.2       | 543.00            | 54.2         | 43.7         | 40.7           |
|                      | 20              | 25.0              | 8.47              | 54.8       | 542.05            | 52.8         | 41.8         | 38.8           |
|                      | 25              | 24.3              | 9.51              | 53.3       | 541.20            | 51.3         | 39.8         | 36.8           |
|                      | 31.25           | 23.6              | 10.67             | 51.9       | 540.44            | 49.9         | 37.9         | 34.9           |
|                      | 62.5            | 21.5              | 15.38             | 47.7       | 538.55            | 45.4         | 31.9         | 28.9           |
|                      | 100             | 20.1              | 19.80             | 44.3       | 537.60            | 42.3         | 27.8         | 24.8           |
|                      | 200             | 18.0              | 28.98             | 39.8       | 536.54            | 37.8         | 21.8         | 18.8           |
|                      | 250             | 17.3              | 32.85             | 38.3       | 536.27            | 36.6         | 19.8         | 16.8           |



## Features

- Armoured Cable
- Construction: F/UTP
- Conductor: 23 AWG, Solid-Bare Copper
- Standard: ISO/IEC11801, TIA-568-C.2, IEC61156
- ISO9001 Certified Manufacturing Plant



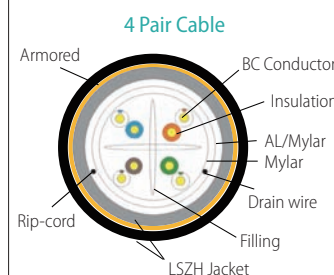
## Specifications

| Model              |                     | C6FU_A_LSZH           |                                   |                                   |                                       |
|--------------------|---------------------|-----------------------|-----------------------------------|-----------------------------------|---------------------------------------|
| Construction       |                     | F/UTP                 | Sheath Physical Properties        | Tensile Strength                  | ≥ 10.0 Mpa                            |
| Conductor          | Material            | Solid-Bare Copper     | (Before Aging)                    | Elongation                        | ≥ 125 %                               |
|                    | Nom.O.D.            | 0.565 ± 0.005 mm      |                                   | Aging Period                      | 100 °C x 24h x 7d                     |
| Insulation         | Material & Diameter | HDPE (1.12 ± 0.05 mm) | Sheath Physical Properties        | Tensile Strength                  | ≥ 8 Mpa                               |
| Screening Material |                     | Mylar + AL / Mylar    | (After Aging)                     | Elongation                        | ≥ 100 %                               |
| Drain wire         |                     | Yes                   |                                   | Cold Bend                         | -20 ± 2 °C x 4h,<br>No visible cracks |
| Inner Sheath       | Material            | LSZH                  | Electrical Characteristics (20°C) | Impedance                         | 1.0-250.0MHz: 100 Ω ± 15 Ω            |
|                    | Thickness           | 0.70 ± 0.2 mm         |                                   | Delay Skew                        | 1.0-250.0MHz: ≤45 ns / 100 m          |
| Armored Material   | Material            | Steel Wires Braiding  |                                   | DC Resistance                     | Max. 9.5 Ω / 100 m                    |
|                    | Coverage            | ≥ 65 %                |                                   | DC Conductor Resistance Unbalance | Max. 5.0 %                            |
| Outer Sheath       | Thickness           | 1.1 ± 0.4 mm          | Length                            |                                   | 305 M                                 |
|                    | External O.D.       | 10.9 ± 1.0 mm         |                                   |                                   |                                       |
|                    | Material            | LSZH (Complies RoHS)  |                                   |                                   |                                       |

| Electric Performance | Frequency (MHz) | Return Loss (≥dB) | Attenuation (≤dB) | NEXT (≥dB) | DELAY (≤ns) | PSNEXT (≥dB) | ELFEXT (≥dB) | PSELFEXT (≥dB) |
|----------------------|-----------------|-------------------|-------------------|------------|-------------|--------------|--------------|----------------|
|                      | 1               | 19.1              | 3.0               | 65.0       | 498         | 62.0         | 64.2         | 61.2           |
|                      | 4               | 21.0              | 3.5               | 64.1       | 498         | 61.8         | 52.1         | 49.1           |
|                      | 8               | 21.0              | 5.0               | 59.4       | 498         | 57.0         | 46.1         | 43.1           |
|                      | 10              | 21.0              | 5.5               | 57.8       | 498         | 55.5         | 44.2         | 41.2           |
|                      | 16              | 20.0              | 7.0               | 54.6       | 498         | 52.2         | 40.1         | 37.1           |
|                      | 20              | 19.5              | 7.9               | 53.1       | 498         | 50.7         | 38.2         | 35.2           |
|                      | 25              | 19.0              | 8.9               | 51.5       | 498         | 49.1         | 36.2         | 33.2           |
|                      | 31.25           | 18.5              | 10.0              | 50.0       | 498         | 47.5         | 34.3         | 31.3           |
|                      | 62.5            | 16.0              | 14.4              | 45.1       | 498         | 42.7         | 28.3         | 25.3           |
|                      | 100             | 14.0              | 18.6              | 41.8       | 498         | 39.3         | 24.2         | 21.2           |
|                      | 200             | 11.0              | 27.4              | 36.9       | 498         | 34.3         | 18.2         | 15.2           |
|                      | 250             | 10.0              | 31.1              | 35.3       | 498         | 32.7         | 16.2         | 13.2           |

\*\*\* FLUKE Permanent Link Technical Performance (≤90m)

## Construction (F/UTP)



### Pair Identification

- Pair 1 White-Blue / Blue
- Pair 2 White-Orange / Orange
- Pair 3 White-Green / Green
- Pair 4 White-Brown / Brown



### Features

- Construction: F/UTP
- Conductor: 23 AWG, Solid-Bare Copper
- Standard: ISO/IEC11801, TIA-568-C.2
- ISO9001 Certified Manufacturing Plant



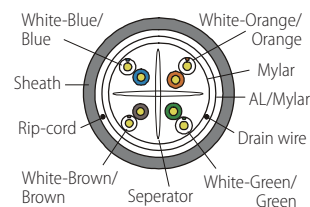
### Specifications

| Model C6AFU_LSZH                      |                     |                       |                                      |                                   |                                                          |
|---------------------------------------|---------------------|-----------------------|--------------------------------------|-----------------------------------|----------------------------------------------------------|
| Construction                          |                     | F/UTP                 | Sheath                               | Tensile Strength                  | ≥ 8 Mpa                                                  |
| Conductor                             | Material            | Solid-Bare Copper     | Physical Properties<br>(After Aging) | Elongation                        | ≥ 100 %                                                  |
|                                       | Nom.O.D.            | 0.565 ± 0.005 mm      |                                      | Cold Bend                         | -20 ± 2 °C x 4h, 8 x Cable O.D.,<br>No visible cracks    |
| Insulation                            | Material & Diameter | HDPE (1.12 ± 0.05 mm) |                                      |                                   |                                                          |
| Screening Material                    |                     | Mylar + AL / Mylar    | Electrical Characteristics<br>(20°C) | Impedance                         | 1 - 250 MHz: 100 Ω ± 15 Ω<br>250 - 500 MHz: 100 Ω ± 22 Ω |
| Sheath                                | Thickness           | 0.60 ± 0.05 mm        |                                      | Delay Skew                        | ≤ 45 ns / 100 m                                          |
|                                       | External O.D.       | 7.4 ± 0.4 mm          |                                      | Unbalanced-to-ground capacitance  | Max. 330 pf / 100 m                                      |
|                                       | Material            | LSZH (Complies RoHS)  |                                      | DC Resistance                     | Max. 9.38 Ω / 100 m                                      |
| Rip-cord & Drain wire                 |                     | Yes                   |                                      | DC Conductor Resistance Unbalance | Max. 5.0 %                                               |
| Sheath                                | Tensile Strength    | ≥ 10.0 Mpa            | Length                               |                                   |                                                          |
| Physical Properties<br>(Before Aging) | Elongation          | ≥ 125 %               |                                      |                                   |                                                          |
|                                       | Aging Period        | 100 °C x 24h x 7d     |                                      |                                   |                                                          |

| Electric Performance | Frequency (MHz) | Return Loss ( $\geq$ dB) | Attenuation ( $\leq$ dB) | NEXT ( $\geq$ dB) | PHASE DELAY ( $\leq$ ns) | PSNEXT ( $\geq$ dB) | ELFEXT ( $\geq$ dB) | PSELFEXT ( $\geq$ dB) |
|----------------------|-----------------|--------------------------|--------------------------|-------------------|--------------------------|---------------------|---------------------|-----------------------|
|                      | 1               | 20.0                     | ---                      | 74.3              | 570.0                    | 72.3                | 68.0                | 65.0                  |
|                      | 4               | 23.0                     | 3.8                      | 65.3              | 552.0                    | 63.3                | 56.0                | 53.0                  |
|                      | 8               | 24.5                     | 5.3                      | 60.8              | 546.7                    | 58.8                | 49.9                | 46.9                  |
|                      | 10              | 25.0                     | 5.9                      | 59.3              | 545.4                    | 57.3                | 48.0                | 45.0                  |
|                      | 16              | 25.0                     | 7.5                      | 56.2              | 543.0                    | 54.2                | 43.9                | 40.9                  |
|                      | 20              | 25.0                     | 8.4                      | 54.8              | 542.1                    | 52.8                | 42.0                | 39.0                  |
|                      | 25              | 24.3                     | 9.4                      | 53.3              | 541.2                    | 51.3                | 40.0                | 37.0                  |
|                      | 31.25           | 23.6                     | 10.5                     | 51.9              | 540.4                    | 49.9                | 38.1                | 35.1                  |
|                      | 62.5            | 21.5                     | 15.0                     | 47.4              | 538.6                    | 45.4                | 32.1                | 29.1                  |
|                      | 100             | 20.1                     | 19.1                     | 44.3              | 537.6                    | 42.3                | 28.0                | 25.0                  |
|                      | 200             | 18.0                     | 27.6                     | 39.8              | 536.5                    | 37.8                | 22.0                | 19.0                  |
|                      | 250             | 17.3                     | 31.1                     | 38.3              | 536.3                    | 36.3                | 20.0                | 17.0                  |
|                      | 300             | 16.8                     | 34.3                     | 37.1              | 536.1                    | 35.1                | 18.5                | 15.5                  |
|                      | 500             | 15.2                     | 45.3                     | 33.8              | 535.6                    | 31.8                | 14.0                | 11.0                  |

### Construction (F/UTP)

#### 4 Pair Cable



#### Pair Identification

- Pair 1 White-Blue / Blue
- Pair 2 White-Orange / Orange
- Pair 3 White-Green / Green
- Pair 4 White-Brown / Brown



## Features

- Armoured Cable
- Construction: F/UTP
- Conductor: 23 AWG, Solid-Bare Copper
- Standard: ANSI/TIA-568.2-D
- ISO9001 Certified Manufacturing Plant



## Specifications

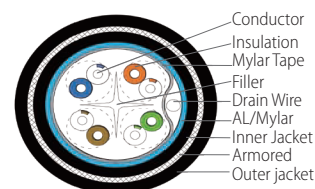
| Model          |                    | C6AFU_A_LSZH                          |                                      |                          |                           |
|----------------|--------------------|---------------------------------------|--------------------------------------|--------------------------|---------------------------|
| Construction   |                    | F/UTP                                 | Outer Jacket                         | Material                 | LSZH                      |
| Conductor      | Material           | Solid-Bare Copper                     | Electrical Characteristics<br>(20°C) | O.D.                     | 11.1 ± 0.80 mm            |
|                | Nom.O.D.           | 0.565 mm                              |                                      | Conductor DC resistance  | ≤ 93.8 Ω / km             |
| Insulation     | Material           | PE                                    |                                      | Resistance unbalance     | ≤ 5%                      |
|                | O.D.               | 1.16 ± 0.10 mm                        |                                      | Insulation resistance    | ≥ 5000 MΩ.km              |
| Filler         | PE cross separator |                                       |                                      | Dielectric strength      | DC1 KV for 1min           |
| Tape           | Mylar tape         |                                       |                                      | Transmission performance | ANSI / TIA-568.2-D        |
| Overall screen |                    | AL / Mylar + Tinned copper drain wire | Operating Temperature                |                          | - 20 °C ~ 80 °C           |
| Inner Jacket   | Material           | LSZH                                  | Installation Temperature             |                          | 0 °C ~ 60 °C              |
|                | O.D.               | 7.90 ± 0.40 mm                        | Min. Bending Radius                  |                          | Fixed 8D (Cable diameter) |
| Armored        | Material           | 0.3 mm galvanized steel wire braiding | Length                               |                          | 305 M                     |
|                | Coverage           | ≥ 60 %                                |                                      |                          |                           |

| Electric Performance | Frequency (MHz) | Attenuation (≤dB) | Return Loss (≥dB) | NEXT (≥dB) | ACRF (≥dB) | PSNEXT (≥dB) | PSACRF (≥dB) |
|----------------------|-----------------|-------------------|-------------------|------------|------------|--------------|--------------|
|                      | 1               | 3.0               | 19.1              | 65.0       | 62.0       | 64.2         | 61.2         |
|                      | 4               | 3.5               | 21.0              | 64.1       | 61.8       | 52.1         | 49.1         |
|                      | 8               | 5.0               | 21.0              | 59.4       | 57.0       | 46.1         | 43.1         |
|                      | 10              | 5.5               | 21.0              | 57.8       | 55.5       | 44.2         | 41.2         |
|                      | 16              | 7.0               | 20.0              | 54.6       | 52.2       | 40.1         | 37.1         |
|                      | 20              | 7.8               | 19.5              | 53.1       | 50.7       | 38.2         | 35.2         |
|                      | 25              | 8.8               | 19.0              | 51.5       | 49.1       | 36.2         | 33.2         |
|                      | 31.25           | 9.8               | 18.5              | 50.0       | 47.5       | 34.3         | 31.3         |
|                      | 62.5            | 14.0              | 16.0              | 45.1       | 42.7       | 28.3         | 25.3         |
|                      | 100             | 18.0              | 14.0              | 41.8       | 39.3       | 24.2         | 21.2         |
|                      | 200             | 26.1              | 11.0              | 36.9       | 34.3       | 18.2         | 15.2         |
|                      | 250             | 29.5              | 10.0              | 35.3       | 32.7       | 16.2         | 13.2         |
|                      | 300             | 32.7              | 9.2               | 34.0       | 31.4       | 14.6         | 11.6         |
|                      | 400             | 38.4              | 8.0               | 29.9       | 27.1       | 12.1         | 9.1          |
|                      | 500             | 43.8              | 8.0               | 26.7       | 23.8       | 10.2         | 7.2          |

\*\*\* Category 6A Permanent link test extreme length 70m.

## Construction (F/UTP)

### 4 Pair Cable



### Pair Identification

- Pair 1 White-Blue / Blue
- Pair 2 White-Orange / Orange
- Pair 3 White-Green / Green
- Pair 4 White-Brown / Brown



### Features

- Construction: S/FTP
- Conductor: 23 AWG, Solid-Bare Copper
- Standard: ISO/IEC61156-5; EN 50288-4
- ISO9001 Certified Manufacturing Plant

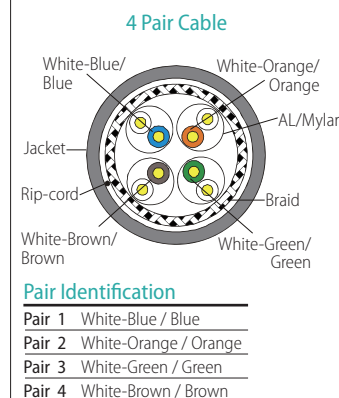


### Specifications

| Model                                        |                  | C7SF_LSZH                    |                                      |                                                       |
|----------------------------------------------|------------------|------------------------------|--------------------------------------|-------------------------------------------------------|
| Construction                                 |                  | S/FTP                        | Sheath                               | Tensile Strength                                      |
| Conductor                                    | Material         | Solid-Bare Copper            | Physical Properties<br>(After Aging) | ≥ 8 Mpa                                               |
|                                              | Nom.O.D.         | 0.560 ± 0.005 mm             |                                      | Elongation                                            |
| Insulation                                   | Material         | Skin-foam-skin PE            |                                      | ≥ 100 %                                               |
|                                              | Diameter         | 1.330 ± 0.05 mm              | Electrical Characteristics<br>(20°C) | Cold Bend                                             |
| Inner Screening Material                     |                  | Mylar + AL / Mylar           |                                      | -20 ± 2 °C x 4h, 8 x Cable O.D.,<br>No visible cracks |
| Outer Screening Material & Coverage          |                  | Tinned copper 0.10 mm, ≥ 40% |                                      | Impedance                                             |
| Sheath                                       | Thickness        | 0.55 ± 0.05 mm               | Unbalanced-to-ground capacitance     | 1 - 100 MHz: 100 Ω ± 15 Ω                             |
|                                              | External O.D.    | 7.6 ± 0.5 mm                 |                                      | 100 - 250 MHz: 100 Ω ± 18 Ω                           |
|                                              | Material         | LSZH (complies RoHS)         |                                      | 250 - 600 MHz: 100 Ω ± 25 Ω                           |
| Rip-cord                                     |                  | Yes                          | Delay Skew                           |                                                       |
| Sheath Physical Properties<br>(Before Aging) | Tensile Strength | ≥ 10.0 Mpa                   | Velocity of Propagation              |                                                       |
|                                              | Elongation       | ≥ 125 %                      | DC Resistance                        |                                                       |
|                                              | Aging Period     | 100 °C x 24h x 7d            | DC Conductor Resistance Unbalance    |                                                       |
|                                              |                  |                              | Length                               |                                                       |
|                                              |                  |                              | 305 M                                |                                                       |

| Electric Performance | Frequency<br>(MHz) | Return Loss<br>(≥dB) | Attenuation<br>(≤dB) | NEXT<br>(≥dB) | PHASE DELAY<br>(≤ns) | PSNEXT<br>(≥dB) | ELFEXT<br>(≥dB) | PSELFEXT<br>(≥dB) |
|----------------------|--------------------|----------------------|----------------------|---------------|----------------------|-----------------|-----------------|-------------------|
|                      | 1                  | 20.0                 | ---                  | 78.0          | 570.0                | 75.0            | 78.0            | 75.0              |
|                      | 4                  | 23.0                 | 3.74                 | 78.0          | 552.0                | 75.0            | 78.0            | 75.0              |
|                      | 8                  | 24.5                 | 5.24                 | 78.0          | 546.7                | 75.0            | 75.9            | 72.9              |
|                      | 10                 | 25.0                 | 5.86                 | 78.0          | 545.4                | 75.0            | 74.0            | 71.0              |
|                      | 16                 | 25.0                 | 7.41                 | 78.0          | 543.0                | 75.0            | 69.9            | 66.9              |
|                      | 20                 | 25.0                 | 8.29                 | 78.0          | 542.0                | 75.0            | 68.0            | 65.0              |
|                      | 25                 | 24.3                 | 9.29                 | 78.0          | 541.2                | 75.0            | 66.0            | 63.0              |
|                      | 31.25              | 23.6                 | 10.41                | 78.0          | 540.4                | 75.0            | 64.1            | 61.1              |
|                      | 62.5               | 21.5                 | 14.88                | 75.5          | 538.6                | 72.5            | 58.1            | 55.1              |
|                      | 100                | 20.1                 | 19.02                | 72.4          | 537.6                | 69.4            | 54.0            | 51.0              |
|                      | 150                | 18.9                 | 23.56                | 69.8          | 536.9                | 66.8            | 50.2            | 47.2              |
|                      | 200                | 18.0                 | 27.47                | 67.9          | 536.5                | 64.9            | 48.0            | 45.0              |
|                      | 250                | 17.3                 | 30.97                | 66.4          | 536.3                | 63.4            | 46.0            | 43.0              |
|                      | 300                | 17.3                 | 34.19                | 65.2          | 536.1                | 62.2            | 44.5            | 41.5              |
|                      | 600                | 17.3                 | 50.10                | 60.7          | 535.5                | 57.7            | 38.4            | 35.4              |

### Construction (S/FTP)





### Features

- Construction: S/FTP
- Conductor: 23 AWG, Solid-Bare Copper
- Comply ISO/IEC Global Standard
- Standard: ISO/IEC11801 & ANSI/TIA-568.2-D
- ISO9001 Certified Manufacturing Plant

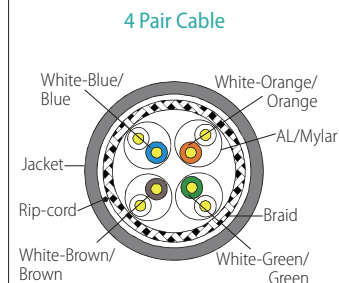


### Specifications

| Model C8.1SF_LSZH        |               |                         |                                       |                                   |                                                        |
|--------------------------|---------------|-------------------------|---------------------------------------|-----------------------------------|--------------------------------------------------------|
| Construction             |               | S/FTP                   | Sheath                                | Tensile Strength                  | ≥ 10.0 Mpa                                             |
| Conductor                | Material      | Solid-Bare Copper       | Physical Properties<br>(Before Aging) | Elongation                        | ≥125 %                                                 |
|                          | Nom.O.D.      | 0.596 ± 0.005 mm        |                                       | Aging Period                      | 100 °C x 24h x 7d                                      |
| Insulation               | Material      | Skin-foam-skin PE       | Sheath                                | Tensile Strength                  | ≥ 8 Mpa                                                |
|                          | Diameter      | 1.480 ± 0.05 mm         | Physical Properties<br>(After Aging)  | Elongation                        | ≥ 100 %                                                |
| Inner Screening Material |               | AL/ Mylar               |                                       | Cold Bend                         | - 20 ± 2 °C x 4h, 8 x Cable O.D.,<br>No visible cracks |
| Outer Screening          | Material      | Tinned copper           | Electrical Characteristics<br>(20°C)  |                                   |                                                        |
|                          | Coverage      | ≥ 60%                   |                                       | Impedance                         | 100 ± 5 Ω @100MHz                                      |
| Sheath                   | Thickness     | 0.55 ± 0.05 mm          |                                       | Delay Skew                        | ≤ 25 ns /100 m                                         |
|                          | External O.D. | 8.0 ± 0.5 mm            |                                       | Velocity of Propagation           | 74 %                                                   |
|                          | Material      | FR-LSZH (Complies RoHS) |                                       | Unbalanced-to-ground capacitance  | Max. 330 pf / 100 m                                    |
| Rip-cord                 |               | Yes                     |                                       |                                   | DC Resistance                                          |
| Length                   |               | 305 M                   |                                       | DC Conductor Resistance Unbalance | Max. 2.0 %                                             |

| Electric Performance | Frequency<br>(MHz) | Return Loss<br>(≥dB) | Attenuation<br>(≤dB) | NEXT<br>(≥dB) | PSNEXT<br>(≥dB) | ACR-F<br>(≥dB) | PS ACR-F<br>(≥dB) | ACR-F<br>(≥dB) | PS ACR-F<br>(≥dB) |
|----------------------|--------------------|----------------------|----------------------|---------------|-----------------|----------------|-------------------|----------------|-------------------|
|                      | 1                  | 19.0                 | 3.0                  | 65.0          | 62.0            | 65.0           | 62.0              | 62.0           | 65.0              |
|                      | 4                  | 19.0                 | 3.0                  | 63.8          | 60.5            | 59.9           | 56.9              | 60.8           | 57.5              |
|                      | 8                  | 19.0                 | 3.0                  | 58.9          | 55.6            | 53.9           | 50.9              | 55.9           | 52.6              |
|                      | 10                 | 19.0                 | 3.0                  | 57.3          | 54.0            | 52.0           | 49.0              | 54.3           | 51.0              |
|                      | 16                 | 18.0                 | 3.0                  | 53.9          | 50.6            | 47.9           | 44.9              | 50.9           | 47.6              |
|                      | 20                 | 17.5                 | 3.0                  | 52.3          | 49.0            | 45.9           | 42.9              | 49.3           | 46.0              |
|                      | 25                 | 17.0                 | 3.2                  | 50.7          | 47.3            | 44.0           | 41.0              | 47.5           | 44.1              |
|                      | 31.25              | 16.5                 | 3.6                  | 49.1          | 45.7            | 42.1           | 39.1              | 45.5           | 42.1              |
|                      | 62.5               | 16.0                 | 5.1                  | 44.0          | 40.6            | 36.0           | 33.0              | 38.9           | 35.5              |
|                      | 100                | 16.0                 | 6.5                  | 40.5          | 37.1            | 32.0           | 29.0              | 34.0           | 30.6              |
|                      | 200                | 14.3                 | 9.3                  | 35.3          | 31.9            | 25.9           | 22.9              | 26.0           | 22.6              |
|                      | 250                | 13.4                 | 10.4                 | 33.6          | 30.2            | 24.0           | 21.0              | 23.2           | 19.7              |
|                      | 300                | 12.7                 | 11.5                 | 32.3          | 28.8            | 22.4           | 19.4              | 20.8           | 17.3              |
|                      | 400                | 11.6                 | 13.3                 | 30.1          | 26.6            | 19.9           | 16.9              | 16.8           | 13.2              |
|                      | 500                | 10.7                 | 15.0                 | 27.9          | 24.8            | 18.0           | 15.0              | 12.9           | 9.9               |
|                      | 600                | 10.0                 | 16.5                 | 25.7          | 22.7            | 16.4           | 13.4              | 9.2            | 6.2               |
|                      | 1000               | 8.0                  | 22.0                 | 19.3          | 16.5            | 12.0           | 9.0               | -2.6           | -5.5              |
|                      | 1500               | 8.0                  | 27.7                 | 13.9          | 11.2            | 8.4            | 5.4               | -13.8          | -16.4             |
|                      | 2000               | 8.0                  | 32.7                 | 9.8           | 7.3             | 5.9            | 2.9               | -22.9          | -25.3             |

### Construction (S/FTP)



#### Pair Identification

- Pair 1 White-Blue / Blue
- Pair 2 White-Orange / Orange
- Pair 3 White-Green / Green
- Pair 4 White-Brown / Brown



### Features

- Conductor: 28 AWG
- Standard: ISO/IEC 11801, ANSI/TIA-568-C2
- ISO9001 Certified Manufacturing Plant
- Length: 0.15M / 0.3M / 0.6M / 1M / 1.5M / 2M / 3M / 5M / 8M / 10M / 12M / 15M



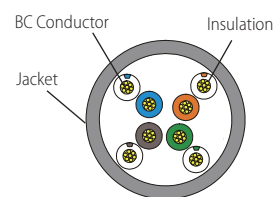
### Specifications

| Model      |                     | PC5_M Series           |                                              |                          |                   |
|------------|---------------------|------------------------|----------------------------------------------|--------------------------|-------------------|
| Conductor  | Material            | Stranded-Bare Copper   | Sheath Physical Properties<br>(Before Aging) | Tensile Strength (Mpa)   | ≥ 13.5            |
|            | Nom. O.D. (mm)      | 28 AWG (7/0.12)        |                                              | Elongation (%)           | ≥ 150             |
| Insulation | Material            | HDPE                   | Sheath Physical Properties<br>(After Aging)  | Aging Period (°C x hrs)  | 100 °C x 24h x 7d |
|            | Diameter            | 0.58 ± 0.05 mm         |                                              | Tensile Strength (Mpa)   | ≥ 12.5            |
| Sheath     | Thickness           | 0.55 ± 0.05 mm         | Electrical Characteristics (20°C)            | Elongation (%)           | ≥ 125             |
|            | External O.D.(Avg.) | 3.8 ± 0.3mm            |                                              | Cold bend (-20±2°C x 4h) | No visible cracks |
|            | Surface             | Clean, Frap, Satiation |                                              | impedance (Ω)            | 100 ± 15          |
|            | Material            | PVC (Complies RoHS)    |                                              | Delay Skew (ns/100m)     | ≤ 45              |
|            |                     |                        |                                              | DC Resistance (Ω/100m)   | 23.7              |

| Electric Performance | Frequency (MHz) | Attenuation (≤dB) | NEXT (≥dB) | Return Loss (≥dB) | DELAY (≤ns) | ELFEXT (≥dB) | Power Sum  |             |
|----------------------|-----------------|-------------------|------------|-------------------|-------------|--------------|------------|-------------|
|                      |                 |                   |            |                   |             |              | NEXT (≥dB) | DELAY (≥dB) |
|                      | 1               | 3.0               | 60.0       | 19.0              | 521         | 58.6         | 57.0       | 55.6        |
|                      | 4               | 3.9               | 54.8       | 19.0              | 504         | 46.6         | 51.8       | 43.6        |
|                      | 8               | 5.5               | 50.0       | 19.0              | 500         | 40.6         | 47.0       | 37.5        |
|                      | 10              | 6.2               | 48.5       | 19.0              | 498         | 38.6         | 45.5       | 35.6        |
|                      | 16              | 7.9               | 45.5       | 19.0              | 496         | 34.5         | 42.2       | 31.5        |
|                      | 20              | 8.9               | 43.7       | 19.0              | 495         | 32.6         | 40.7       | 29.6        |
|                      | 25              | 10.0              | 42.1       | 18.0              | 495         | 30.7         | 39.1       | 27.7        |
|                      | 31.25           | 11.2              | 40.5       | 17.1              | 494         | 28.7         | 37.5       | 25.7        |
|                      | 62.5            | 16.2              | 35.7       | 14.1              | 492         | 22.7         | 32.7       | 19.7        |
|                      | 100             | 21                | 32.3       | 12.0              | 491         | 18.6         | 18.6       | 15.6        |

### Construction (U/UTP)

#### 4 Twisted Pair Cable



#### Pair Identification

- Pair 1 White-Blue / Blue
- Pair 2 White-Orange / Orange
- Pair 3 White-Green / Green
- Pair 4 White-Brown / Brown



### Features

- Conductor: 28 AWG
- Standard: ISO/IEC 11801, ANSI/TIA-568-C2
- ISO9001 Certified Manufacturing Plant
- Length: 0.15M / 0.3M / 0.6M / 1M / 1.5M / 2M / 3M / 5M / 8M / 10M / 12M / 15M



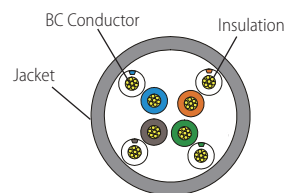
### Specifications

| Model PC6_M Series |                     |                        |                                              |                          |                   |
|--------------------|---------------------|------------------------|----------------------------------------------|--------------------------|-------------------|
| Conductor          | Material            | Stranded-Bare Copper   | Sheath Physical Properties<br>(Before Aging) | Tensile Strength (Mpa)   | ≥ 13.5            |
|                    | Nom. O.D. (mm)      | 28 AWG (7 / 0.12)      |                                              | Elongation (%)           | ≥ 150             |
| Insulation         | Material            | HDPE                   | Sheath Physical Properties<br>(After Aging)  | Aging Period (°C x hrs)  | 100 °C x 24h x 7d |
|                    | Diameter            | 0.58 ± 0.05 mm         |                                              | Tensile Strength (Mpa)   | ≥ 12.5            |
| Sheath             | Thickness           | 0.55 ± 0.05 mm         | Electrical Characteristics (20°C)            | Elongation (%)           | ≥ 125             |
|                    | External O.D.(Avg.) | 3.8 ± 0.3mm            |                                              | Cold bend (-20±2°C x 4h) | No visible cracks |
|                    | Surface             | Clean, Frap, Satiation |                                              | impedance (Ω)            | 100 ± 15          |
|                    | Material            | PVC (Complies RoHS)    |                                              | Delay Skew (ns/100m)     | ≤ 45              |
|                    |                     |                        |                                              | DC Resistance (Ω/100m)   | 23.7              |

| Electric Performance | Frequency (MHz) | Attenuation (≤dB) | NEXT (≥dB) | Return Loss (≥dB) | DELAY (≤ns) | ELFEXT (≥dB) | Power Sum  |             |
|----------------------|-----------------|-------------------|------------|-------------------|-------------|--------------|------------|-------------|
|                      |                 |                   |            |                   |             |              | NEXT (≥dB) | DELAY (≥dB) |
|                      | 1               | 1.9               | 65.0       | 19.1              | 521         | 64.2         | 62.0       | 61.2        |
|                      | 4               | 3.5               | 64.1       | 21.0              | 504         | 52.1         | 61.8       | 49.1        |
|                      | 8               | 5.0               | 59.4       | 21.0              | 500         | 46.1         | 57.0       | 43.1        |
|                      | 10              | 5.5               | 57.8       | 21.0              | 498         | 44.2         | 55.5       | 41.2        |
|                      | 16              | 7.0               | 54.6       | 20.0              | 496         | 40.1         | 52.2       | 37.1        |
|                      | 20              | 7.9               | 53.1       | 19.5              | 495         | 38.2         | 50.7       | 35.2        |
|                      | 25              | 8.9               | 51.5       | 19.0              | 495         | 36.2         | 49.1       | 33.2        |
|                      | 31.25           | 10.0              | 50.0       | 18.5              | 494         | 34.3         | 47.5       | 31.3        |
|                      | 62.5            | 14.4              | 45.1       | 16.0              | 492         | 28.3         | 42.7       | 25.3        |
|                      | 100             | 18.6              | 41.8       | 14.0              | 491         | 24.2         | 39.3       | 21.2        |
|                      | 200             | 27.4              | 36.9       | 11.0              | 490         | 18.2         | 34.3       | 15.2        |
|                      | 250             | 31.1              | 35.3       | 10.0              | 490         | 16.2         | 32.7       | 13.2        |

### Construction (U/UTP)

#### 4 Twisted Pair Cable



#### Pair Identification

- Pair 1 White-Blue / Blue
- Pair 2 White-Orange / Orange
- Pair 3 White-Green / Green
- Pair 4 White-Brown / Brown



### Features

- Conductor: 26 AWG
- Standard: ISO/IEC 11801:2011 (Ed. 2.2); ANSI/TIA- 568.2-D
- ISO9001 Certified Manufacturing Plant
- Length: 1M / 2M / 3M / 5M



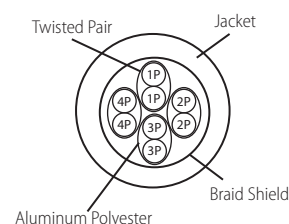
### Specifications

| Model      |                     | PC6A_LSZH Series       |                                   |                           |                       |
|------------|---------------------|------------------------|-----------------------------------|---------------------------|-----------------------|
| Conductor  | Material            | Stranded-Bare Copper   | Sheath Physical Properties        | Tensile Strength (Kg/mm2) | ≥ 1.05                |
|            | Nom. O.D. (mm)      | 26AWG (7 / 0.16)       |                                   | Elongation (%)            | ≥ 100                 |
| Insulation | Material            | PE                     | Electrical Characteristics (20°C) | Durability                | ≥ 1200 matching cycle |
|            | Diameter            | 1.02 ± 0.05 mm         |                                   | Max Pull Tension          | 90 N                  |
| Sheath     | Thickness           | 0.58 ± 0.05 mm         |                                   | Current Rating            | 1.5 A                 |
|            | External O.D.(Avg.) | 6.2 ± 0.2mm            |                                   | Insulation Resistance     | 100 MΩ min            |
|            | Surface             | Clean, Frap, Satiation |                                   | Contact Resistance        | 20 MΩ max             |
|            | Material            | LSZH                   |                                   | Dielectric Strength       | 500 VAC (rms)         |
|            |                     | - 25 ~ 60 °C           |                                   | Voltage                   | 72 VDC max            |

| Electric Performance | Frequency (MHz) | Insertion Loss (mix.dB) Limit dB | NEXT (mix.dB) Limit dB | Return Loss (mix.dB) Limit dB | PSNEXT (mix.dB) Limit dB | ACR-N (mix.dB) Limit dB | PS ACR-N (mix.dB) Limit dB | ACR-F (mix.dB) Limit dB | PS ACR-F (mix.dB) Limit dB |
|----------------------|-----------------|----------------------------------|------------------------|-------------------------------|--------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
|                      | 1               | 3.0                              | 65                     | 19                            | 62                       | 65                      | 59                         | 63.3                    | 60.3                       |
|                      | 4               | 4.2                              | 63                     | 19                            | 60.5                     | 58.9                    | 56.4                       | 51.2                    | 48.2                       |
|                      | 8               | 5.8                              | 58.2                   | 19                            | 55.6                     | 52.4                    | 19.8                       | 45.2                    | 42.2                       |
|                      | 10              | 6.5                              | 56.6                   | 19                            | 54                       | 50.1                    | 17.5                       | 43.3                    | 40.3                       |
|                      | 16              | 8.2                              | 53.2                   | 18                            | 50.6                     | 45                      | 42.4                       | 39.2                    | 36.2                       |
|                      | 20              | 9.2                              | 51.6                   | 17.5                          | 49                       | 42.5                    | 39.8                       | 37.2                    | 34.2                       |
|                      | 25              | 10.2                             | 50                     | 17                            | 47.3                     | 39.8                    | 37.1                       | 35.3                    | 32.3                       |
|                      | 31.25           | 11.5                             | 48.4                   | 16.5                          | 45.7                     | 36.9                    | 34.2                       | 33.4                    | 30.4                       |
|                      | 62.5            | 16.4                             | 43.4                   | 14                            | 40.6                     | 27                      | 24.2                       | 27.3                    | 24.3                       |
|                      | 100             | 20.9                             | 39.9                   | 12                            | 37.1                     | 19                      | 16.2                       | 23.3                    | 20.3                       |
|                      | 200             | 30.1                             | 34.8                   | 9                             | 31.9                     | 4.7                     | 1.8                        | 17.2                    | 14.2                       |
|                      | 250             | 33.9                             | 33.1                   | 8                             | 30.2                     | -0.8                    | -3.7                       | 15.3                    | 12.3                       |
|                      | 300             | 37.4                             | 31.7                   | 7.2                           | 28.8                     | -5.6                    | -8.6                       | 13.7                    | 10.7                       |
|                      | 400             | 43.7                             | 28.7                   | 6                             | 25.8                     | -14.9                   | -17.9                      | 11.2                    | 8.2                        |
|                      | 500             | 49.3                             | 26.1                   | 6                             | 23.2                     | -23.2                   | -26.1                      | 9.3                     | 6.3                        |

### Construction (S/FTP)

#### 4 Twisted Pair Cable



#### Pair Identification

|        |                       |
|--------|-----------------------|
| Pair 1 | White-Blue / Blue     |
| Pair 2 | White-Orange / Orange |
| Pair 3 | White-Green / Green   |
| Pair 4 | White-Brown / Brown   |



## Features

- Easy to install
- Cost effective
- High quality

## Specifications

| Model      |                                    | RJ45                              | RJ45C6                            | RJ45C6A                           |
|------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Electrical | Applications                       | Cat5e                             | Cat6                              | Cat6A                             |
|            | Suitable for Standard & Solid Wire | 24 AWG ~ 26 AWG                   | 23 AWG ~ 26 AWG                   | 22 AWG ~ 26 AWG                   |
|            | UL Applications                    | 250 Volts AC Max. at 2 Amps.      | 250 Volts AC Max. at 2 Amps.      | 250 Volts AC Max. at 2 Amps.      |
|            | Dielectric withstanding Voltage    | 1000 Volts AC. 60 Sec.            | 1000 Volts AC. 60 Sec.            | 1000 Volts AC. 60 Sec.            |
|            | Insulation Resistance              | 500 MΩ.                           | 500 MΩ.                           | 500 MΩ.                           |
|            | Contact Resistance                 | 20 mΩ Max.                        | 20 mΩ Max.                        | 20 mΩ Max.                        |
|            | Operating Ambient Temperature      | -20 °C ~ 75 °C                    | -20 °C ~ 75 °C                    | -40 °C ~ 70 °C                    |
| General    | Strain Re-life                     | 20 Pound Min.                     | 20 Pound Min.                     | 20 Pound Min.                     |
|            | Durability                         | 1200 Mating Cycles                | 1200 Mating Cycles                | 1200 Mating Cycles                |
|            | Housing                            | Polycarbonate, UL94V-0 or UL94V-2 | Polycarbonate, UL94V-0 or UL94V-2 | Polycarbonate, UL94V-0 or UL94V-2 |
|            | Contact Blade                      | Copper alloy                      | Copper alloy                      | Copper alloy                      |
|            | Gold Plating                       | 50 u"                             | 50 u"                             | 50 u"                             |
|            | Shielded Shell                     | NA                                | NA                                | COPPER NICKEL ALLOY.              |

| Model       |                       | RJ45C6ATL                                                                        |  |
|-------------|-----------------------|----------------------------------------------------------------------------------|--|
| Material    | Extractor             | PC, UL 94V-2                                                                     |  |
|             | Housing               | Zinc die-Casting with nickel plated                                              |  |
|             | RJ45 Plug             | PC, UL 94V-2, black color                                                        |  |
|             | Housing               | PC, UL 94V-2, black color                                                        |  |
|             | Contact Material      | Phosphor bronze with 100 micro-inch nickel plated                                |  |
|             | Contact Finish        | Min.50 micro-inch gold plated on surface contact area                            |  |
|             | Cover                 | Zinc die-casting with nickel plated                                              |  |
|             | Wire Management Bar   | PC, UL 94V-2, white color                                                        |  |
|             | IDC                   | PC, UL 94V-2, white color                                                        |  |
|             | Housing               | PC, UL 94V-2, white color                                                        |  |
|             | Terminal              | Titanium copper with tin plated                                                  |  |
|             | Grounding Contact     | Zinc die-casting with nickel plated                                              |  |
|             | Boot                  | Zinc die-casting with nickel plated                                              |  |
|             | Housing               | Zinc die-casting with nickel plated                                              |  |
|             | SR                    | PC, UL 94V-2, transparent color                                                  |  |
|             | CAP                   | PC, UL 94V-2, black color                                                        |  |
|             | PCB                   | UL 94-VO                                                                         |  |
|             | Copper Foil Tape      | Yes                                                                              |  |
|             | Dust Cap              | PE, black color                                                                  |  |
| Performance | Wiring                | T568A & T568B wiring                                                             |  |
|             | Insertion Force       | 30N Max.                                                                         |  |
|             | Retention Strength    | 7.7 Kg between jack and plug                                                     |  |
|             | Operating Temperature | -10 °C ~ 60 °C                                                                   |  |
|             | Life                  | 750 Cycles Min.<br>23-26 AWG standard and solid wire, min 20 installation cycles |  |
|             | Suitable For          | 6.0-7.5 mm Cable jacket                                                          |  |



KS\_CAT5E

KS\_CAT6

KS\_CAT6A

### Features

- Accommodates 23~246 AWG solid
- High quality
- Easy to install



### Specifications

| Model                    |                                  | KS_CAT5E                                                                                                                            | KS_CAT6         | KS_CAT6A                         |
|--------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------|
| Material                 | Applications                     | CAT5e                                                                                                                               | CAT6            | CAT6A                            |
|                          | Contact Compatibility            | 23~26 AWG solid                                                                                                                     | 23~26 AWG solid | 23~26 AWG solid                  |
|                          | Keystone Jack Housing            | ABS UL94V-O                                                                                                                         | ABS UL94V-O     | Zinc die-casting w/nickel plated |
|                          | Spring PIN                       | Phosphor bronze C5210-EH, T=0.35 mm<br>Plating nickel undercoat, Besides plating 50 U" gold over the plated surface on contact area |                 |                                  |
|                          | IDC Housing                      | PC High-impact UL94V-O thermoplastic                                                                                                |                 |                                  |
|                          | IDC Terminals                    | Phosphor bronze, Tin over nickel undercoat                                                                                          |                 |                                  |
|                          | PCB                              | FR-4                                                                                                                                |                 |                                  |
| Physical Characteristics | Insertion Life                   | 750 mating cycles with FCC Compliant 8P plug                                                                                        |                 |                                  |
|                          | Plug Retention Force             | 11 LBF min.                                                                                                                         |                 |                                  |
|                          | Operating Temperature Range      | -10 °C~60 °C                                                                                                                        |                 |                                  |
|                          | Storage Temperature Range        | -40 °C~68 °C                                                                                                                        |                 |                                  |
|                          | Humidity                         | 10 %~90 % RH.                                                                                                                       |                 |                                  |
| Electrical               | Insulation Resistance            | 500 mΩ                                                                                                                              |                 |                                  |
|                          | Dielectric with Standing Voltage | 1000VAC                                                                                                                             |                 |                                  |
|                          | DC Current Rating                | 1.5 Amps .                                                                                                                          |                 |                                  |
|                          | DC Resistance                    | 0.1 Ω                                                                                                                               |                 |                                  |
|                          | Contact Resistance               | 20 mΩ                                                                                                                               |                 |                                  |



### Features

- High quality
- Easy to install

### Specifications

| Model           | FPRJ4501                                                                            | FPRJ4502                                                                            | FPRJ4503                                                                             | FPRJ4504                                                                              |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Compatible with | Cat5e/ Cat6/ Cat6A Keystone Jack                                                    | Cat5e/ Cat6/ Cat6A Keystone Jack                                                    | Cat5e/ Cat6/ Cat6A Keystone Jack                                                     | Cat5e/ Cat6/ Cat6A Keystone Jack                                                      |
| Port            | 1                                                                                   | 2                                                                                   | 3                                                                                    | 4                                                                                     |
| Material        | Plastic                                                                             | Plastic                                                                             | Plastic                                                                              | Plastic                                                                               |
| Dimensions      | Size: 8.6 x 8.6cm                                                                   | Size: 8.6 x 8.6cm                                                                   | Size: 8.6 x 8.6cm                                                                    | Size: 8.6 x 8.6cm                                                                     |
|                 |  |  |  |  |

| Model           | FPRJ4501A                                                                           | FPRJ4502A                                                                             |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Compatible with | Cat5e/ Cat6/ Cat6A Angle Keystone Jack                                              | Cat5e/ Cat6/ Cat6A Angle Keystone Jack                                                |
| Port            | 1                                                                                   | 2                                                                                     |
| Material        | Plastic                                                                             | Plastic                                                                               |
| Dimensions      | Size: 8.6 x 8.6cm                                                                   | Size: 8.6 x 8.6cm                                                                     |
|                 |  |  |

| Model           | FPN01                                                                               | FPN02                                                                                 |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Compatible with | Fiber Optic Coupler                                                                 | Fiber Optic Coupler                                                                   |
| Port            | 1                                                                                   | 2                                                                                     |
| Material        | Plastic                                                                             | Plastic                                                                               |
| Dimensions      | Size: 8.6 x 8.6cm                                                                   | Size: 8.6 x 8.6cm                                                                     |
|                 |  |  |



### **Eight Limited (HK Headquarter)**

No.18, 4/F., Thriving Industrial Centre,  
26-38 Sha Tsui Road,  
Tsuen Wan, N.T., Hong Kong  
Tel : (852) 2413 2222  
Fax : (852) 2411 3000  
Whatsapp : (852) 6424 0496  
Enquiry Email: [info@eightgroup.com](mailto:info@eightgroup.com)

Visit us at Website  
<http://www.eightgroup.com>



Our Partners:

