

Fiber select Q&A

What is the communications industry standard

Communications industry with Audio industry has always been inseparable. Communications industry is based on the solutions for human information exchange and thus it has its urgency with necessity, involved with a lot of money, and has a large-scale market, has the advantage of scale production by making the related peripheral components. Therefore, the audio industry has always been as shadow of the communications industry, it can be as irrefutable evidence from TRS connector & 600 ohm 0.775V is 0 dBu standard!

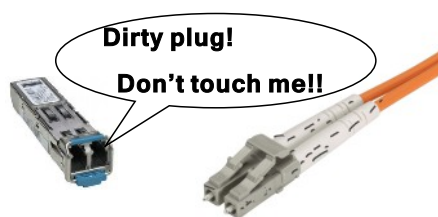
Optical fibers are used in the communications industry has several decades, due to FTTX market advanced, we were able to enjoy high-quality fiber optic products with low price! The most popular used in the communications industry is LC connector, it has been largely used on SFP modules. The generally accepted fiber optic adopts welding way to proceed the connection way between trunk cable with pigtail. Using dual female flanged connection, it is allowed in the condition of channel link has headroom

Complying with standards, and providing with the feasibility of remote maintenance. Once very unfortunate encounter strong external destroy, caused damage,

You can find the nearest cabling team, disassembling the fiber wheel and maintain with terminal. Solve the problem immediately, no need sending it back to factory for repairing.

What's your product advantage?

Complying with communications industry standards, taking into consideration about practical problems, reducing connector being damaged and dirty, trying best to minimize fiber fittings mated!



The business we are facing is a touring performances, cable often needs to be withdrawn. Thus the traditional armored fiber with lose tail style, will be challenged. The most direct point is fiber fitting to be damaged or dirty, If such connector directly inserts into SFP, it surely caused SFP to be dirty or damaged. And once it's damaged, the optical fibers will be scrapped together. This is the pain on industry!

So we took the design which use the female mount on the panel and both end of connectors. Middle trunk is dealing with welding and use institution to accommodate it. Please capping the cover after using, to prevent the dust.

Both patch cable should be removed and accommodated additionally after using. Due to the low price, once the products suffered breakage, it can be scrapped and renewal.

Is such docking available?

Yes, it is available under the headroom situation.

The methods of similar products is using SFP optical module on the machine, then using the short patch cable to connect the external dedicated mount. This way will be lost two connectors, and lost 0.6dB, if using the same way both end, it will lost 1.2dB. As for 850nm 3.5db/km of multi-mode, the available distance of one connector will be decreased to 85.7m. General multi-mode fiber is available for 500m transmission, deducting the lost of four connectors, it still available for 240m transmission distance. It is enough to meet the general performance of occasions.

If there is a single-mode light source would be better, you can have more headroom to cover the loss on the path.

Is 62.5um fiber available for SFP?

Yes, but it will be lost some transmission.

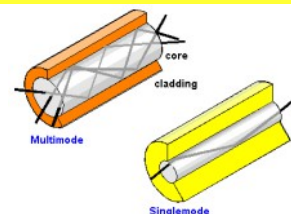
62.5um is mean the fiber core. The core is the widest in the general sales market. It can allow various light sources incident and transmission. However, due to it is the widest fiber, some of the light will advance by multiple reflection way to cause the lost.

What's the difference between 9.5um and 62.5um?

The different of core width:

9um is single-mode fiber cable. 50um and 62.5um is multi-mode fiber cable. SFP can be available in multi-mode. Conversely, multi-mode couldn't be available for SFP, due to the core is too small.

Based on above two points, you can understand that's why we use 62.5um as our fiber cable. Use the widest core to avoid the mistake of physical layer connection, and let your purchase strategy is correct.



How about the compatibility with third-party connection?

As long as the third party connector is a universal commercial one, it can be connected. The better way is you don't need to have a secondary injection. Just change the patch cable would be able to support different devices. The connector in cable drum is LC connector, if you need to connect RME or SOUNDCRAFT, just replace the patch cable for SC to LC, and it can be connected with the device perfectly.

How about the practical distance which connect with SFP?

The signal will be lost because of connecting with Flange, so when the equipment connect with SFP directly, under the multi mode optical source, the practical distance will be available within 240-300M. If under the condition of single mode optical source, the practical distance will be available within 2-20Km according to the intensity of optical source, although connecting with flange for many times, it is also available to keep the system smoothly

How about the practical distance available when the fiber connects to the third-party socket?

The key point is the SFP behind the socket. Generally, the socket would cause a loss of 0.6db on each side of the equipment. Therefore, if you need to use multi-mode optical fiber with the socket, we would not recommend our fiber cable drum for you. While for single-mode optical fiber, we can assure you the usage of a distance of 350M.

Choose Single-mode or multi-mode SFP?

We suggest you to use single-Mode optical SFP as the price is similar with multi-mode SFP. but longer term transmission compare to multi-mode SFP.

