

OM5 Multimode Fibre Standard



Introduction of Air Blown Cable Equipment

MicroTubes

The advantage of microtubes is that it can make full use of the original pipeline for further expansion. Microtube air blower can be used to lay the micro tube bundle at once into the main tube, the diameter and number of microtubes is calculated based on the main tube diameter and decided according to the client needs. There is a certain space between the micro tube and the main tube thus providing a strong impact resistance. In addition, since the microtubes are loosely placed in the main pipe, it is easy to disengage the lines and deal with the obstacles. Tubing calibres are 5,7,10 and 12mm; main tube specifications are: 25, 32, 40, 50 and 63mm.

Common application as follows:

- ♦ Trunk and access
- It generally uses 10mm microtubes, each microtube can accommodate 60 core microcables.
- ♦ Access and home
- It generally uses 7mm microtubes, each microtube can accommodate up to 24 core microcables. **◊** Long distance network
 - Uses12mm microtubes, each microtube can accommodate up to 144 core microcables.



MicroCable

Compared with the conventional fiber optic cable, the micro-cable has a thinner diameter, the armoured structure and metal core reinforcement was eliminated as it does not present any real use in microcable.



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Take the 144 core as an example, with a cable diameter between 7.9 ~ 9mm, the composition of the cable uses less material than conventional cabling, thus making the cost lower.

There are several types of equipment and accessories for microcable installation:



Micro Tube Air Blower

Micro tube air blowers can be used to blow the microtube bundles into the protective tube or cellular conduit from 40mm to 63mm using air or water.

For each microtube bundle arrangement, you need to use a special chain and tube bundle guiding accessories. All hydraulic super air blowers can be upgraded to micro tube air blowers.



Micro-Cable Blower

Micro-cable blower (MICROJET®) is used to install communication and digital transmission lines into prefabricated microtubes. Micro-air blowers can lay micro-cable of \emptyset 0.7 to 6.5 mm diameter into the micro-tubes, the micro-cable blowing machine (MICROJET ®) has the following composition:

- ♦ Propeller
- Traction equipment
- ◊ Intermediate relay
- Air flow push and pull device
- ♦ Air blowing machine



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Fibre Rewinding Device

The fiber rewinding device has the following functions:

- Sensure that the cable is safe and clean
- Save time and effort, avoiding manual figure 8 cable installation

Y Type Connector

Y-type connector is a very useful accessory, that can maximize the utilization of pipelines; further strengthen the flexibility and scalability of the technology.

It has the following functions:

- In the same pipe laying can fit microtubes of different diameters
- Add a fiber cable to an existing cabling pipeline

A Microtubes can be laid in pipes with existing cables

It can fit two fiber optic cables in the same pipe at the same time

Colour

It is very important for air compressors that do not have integrated cooling device of its own when the ambient temperature exceeds 30°C. Without the cooling device, the temperature of the air coming out of the air compressor is 25-30 degrees higher than the outside temperature, and when the temperature exceeds 50 degrees, the polyethylene in the outer layer of the cable starts to soften, which will greatly increase the friction force between the cable and the pipe, affecting the normal function of the whole system.