

7/3.5mm Microduct Specifications



1 Microduct Parameters

Microduct Type: high-density polyethylene (HDPE)

OD: 7mm

ID Min: 3.5mm

Inner wall: longitudinal grooves

Cladding non-circularity: < 3%

Thickness: 1.75mm without minus deviation, extremely uniform

2 Material

The Microduct material is high-quality high-density polyethylene (HDPE), which is flexible, lightweight, durable, UV resistant and easy to use.

Typical technical parameters

Density: 920~950 kg/m (according to ISO R 1183)

Buckling stress ≥ 18 Mpa

Elongation at Break $\geq 500\%$

3 Coefficient of Friction

The friction coefficient between the Microduct and micro cable jacket is less than 0.15.

4 Environmental Performance

- a) Operating and storage temperature: $-20\sim+50^{\circ}\text{C}$
- b) More than 50 year service life under required work conditions
- c) Strong resistance to acids, alkalis, salt and other chemicals
- d) Ant and rat bite resistance
- e) Excellent water proof performance

5 Appearance

The outer and inner walls of the Microduct are smooth without cracks, pinholes, joints, water stains, mold marks, patches or other defects.

6 Flexibility

Coil the Microduct tightly for 10 turns on a roll with diameter 100mm. After 30 minutes, the Microduct does not have any damage and the diameter is reduced by not more than 0.5mm.

7 Pressure

The Microduct can withstand a pressure of 12 bars at 20 ° C for 30 minutes.

8 Crush

Place a section of 250mm long Microduct between two 100 × 100mm flat steel plates, and a force of 450N (45kg) is loaded. After 60 seconds, the residual deformation of the Microduct does not exceed 15%, without cracking and permanent damage.

9 Freezing

After filling the Microduct with water and sealing it, freeze it at -15 ° C. The Microduct will not burst or crack. After freezing, the Microduct can withstand a pressure of 10 bars for 15 minutes when it returns to room temperature.

10 Stress Cracking

All Microduct manufactured shall meet the test requirements of ASTM D 1693 for resistance to environmental stress cracking.

11 Microduct Color Identification

The color of each Microduct can be customized so that it can be identified simply and uniquely. The Microduct color is easy to identify and has good durability.

12 Microduct Length Identification

- a) The length marking is printed on the Microduct with 1meter interval to indicate the length of Microduct.
- b) The numbers on the Microduct are evenly distributed in the plane and space, and the word height is about 3~4mm to facilitate identification.

13 Packaging

The Microduct is wound on a reel at the time of delivery, and the length of each reel is greater than 2Km. The diameter of the reel does not exceed 1.5m and the width does not exceed 1m. The reels are easy to transport, allowing transportation at -20 ° C to + 50 ° C, and after packaging, storage at -20 ° C to + 50 ° C. If the transportation and storage temperature is not within the above-mentioned range, indicate the transportation temperature and storage temperature requirements on the package.

14 Labelling

The label on the Microduct reel should have the following information and other information required by customer.

Contract NO
Reel NO
Length
Weight