

LGCE Thick Walled Microduct Primary Tube

7/4mm



1. General Description

BluLight® Primary Tube is coated lubricant layer and suitable for fiber blowing with low friction. Thick Walled Microduct Primary Tube can directly install.

2. Primary Tubes Technical Details

2-1 Dimension

Item	Outer diameter(mm)		Inner diameter(mm)		Wall thickness(mm)		Max. Pressure(bar)
	Nominal	Tolerance	Nominal	Tolerance	Min.	silicon	
7/4	7	±0.1	4	±0.1	1.4	0.15	15

2-2 Marking

The microduct marking shall include the following information: (Frequency - repeated every 1meter)

- Project Name and product name (e.g FTTH DEUTSCHE GLASFASER 1x7/4mm ROHRCHEN)
- Manufacturer (e.g LGCE-KNET)
- Identify code number(e.g. #1, repeated interval 100 mm)
- Manufactured code(e.g YY.MM.DD TT 2A01)
- Length marking(e.g. = 0235m =)

※ Other markings are available upon customer requests.

※ **Example**



3. Configuration& Color

3-1 Configuration

- Microduct(primary tube) : Polyethylene tube with color code according to paragraph 4-2
Silicone coating and smooth or straight ribbed inner surface
- Other colors are available upon the customer request.



3-2 Color code

Position	1
Color	Orange
Marking	#1

4. Mechanical Performance test

4-1Microduct(Primary tubes)

Mechanical properties	International standard	Test conditions	Performance
Inner clearance	IEC 60794-5-10 Annex E	Pressure : 12bar Max. Sphere size : 85% of nom. ID	Pass : Pass through the primary tube.
Tensile Strength	IEC 60794-5-10&20	Tube length under tension: >1 m Max. Tensile load: 1 x 9.8 x W*[N] Duration of max. load: 10 min *W = mass of 1km of component in kg	Pass: Under visual examination without magnification, There shall be no damage and no reduction of diameter greater than 15%.
Crush	IEC 60794-5-10&20	Sample length : 250 mm Load: 1,000 N Duration of Max. load: 1 min Recovery time: 1 h	Pass: The outer and inner diameter of the microduct shall show, under visual examination without magnification no damage and no reduction of inner diameter greater than 15%.

Impact	IEC 60794-5-10&20	Striking surface radius: 300 mm Impact: 3 J Number of impact: 3 Recovery time: 1 h	Pass: Under visual examination without magnification, there shall be no damage to the microduct. There shall be no residual deformation greater than 15% of the inner diameter and no splitting or permanent damage. The imprint of the anvil on the sheath is not considered as mechanical damage.
Kink	IEC 60794-5-10&20	Diameter: $\leq 20 \times OD$	Pass: The outer and inner diameter of the microduct shall show, under visual examination without magnification no damage and no reduction of diameter greater than 15%.
Bend	IEC 60794-5-10&20	Number of turns: 4 Mandrel diameter: $\leq 24 \times OD$ Number of cycles: 3	Pass: The outer and inner diameter of the microduct shall show, under visual examination without magnification no damage and no reduction of diameter greater than 15%.
Friction	Telcordia GR 356	Sample length: 3.5 m Mandrel diameter: 750 mm The sample length is secured with 450wrap around the mandrel with one end of the tube hanging downwards, the other end pointing horizontally towards the tensile machine.	Pass: A 6.8kg weight shall be pulled at 500m/min and travel 150mm. An average force of 5 pulls shall be recorded to give a coefficient of friction less than 0.1.

5. Packing

Microduct primary tubes are delivered on drum with size as below.

Product Code	Length/drum(m)	Drum size(H x W)	Gross weight(kg)	Number of Drums in 40'(EA)
TWD Primary Tube 7/4	2,000	750 x 425	62	180

6. Internationally Certified

LGCE Microduct Assemblies has been rigorously tested by Telcordia Technologies and found to be compliant with Telcordia GR-3155-CORE.



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