

AIR BLOWN

AIS 吹气光纤解决方案 低烟无卤 LSZH 室内用微管

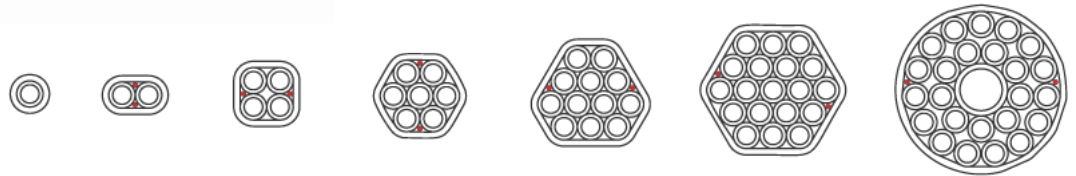


产品简介

AIS 为您精心准备了一系列高端吹气光纤端接产品，包含一系列室内与室外不同规格的吹气微管 (Microduct)、一系列吹气光纤束 (Air Blown fiber unit) 及吹气光缆 (Air Blown Cable) 相关使用上的配件等等。吹气光纤在欧美国家已经广泛地使用，吹气光纤先进的施工方式能为业主省下 30% 建造与维修成本。吹气光纤有布放快速优势，日后扩充线路极为便利优势，布放成本低廉优势等等。

产品亮点

- 快速光纤布放，施工布放速度是传统拉光缆的三分之一。
- 快速光纤布放，施工布放人员数量是传统拉光缆的四分之一。
- 节省未来维修成本，扩充施工简易方便。
- 节省未来扩充成本，扩充施工简易方便。



LSZH 室内布放微管

- 外皮与内管皆为低烟无卤 LSZH 材质，符合国内建筑防火法规。
- 依照您的需求，5/3.5 mm 我们有 1管, 2管, 4管, 7管, 12管, 19管, 24管供您选择。
- 抗拉力测试符合国际标准 IEC 60794-1-2 Method E1，抗纠结测试符合国际标准 IEC 60794-1-2 Method E10，耐冲击测试符合国际标准 IEC 60794-1-2 Method E4，抗压碎测试符合国际标准 IEC 60794-1-2 Method E3，耐弯曲测试符合国际标准 IEC 60794-1-2 Method E11，耐气压测试符合国际标准 IEC 86A/1205/CD Annex C。
- 常规尺寸 5mm 外径，3.5mm 内径，5/3.5mm。其他管径，10/8mm 与 12/10mm 可订制。
- LSZH 材质适用于户内应用。

技术参数

	外径		内径		外皮厚度		压力 MBar
	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	
5/3.5mm	4.9	5.1	3.4	3.6	0.75	0.85	0.1
10/8mm	9.9	10.1	7.9	8.1	1.0	1.1	
12/10mm	11.9	12.1	9.9	10.1	1.0	1.1	

		外径 (mm)	最大拉力 (N)	重量 (kg/km)	弯曲半径 (mm)	抗压力 (N)
5/3.5mm LSZH 微管	1 管	5.0	75	15	60	400
	2 管	12.2 x 7.2	375	75	150 x 90	400
	4 管	14.3 x 12.2	610	122	175 x 150	400
	7 管	17 x 15.7	925	185	205 x 190	400
	12 管	22.3 x 20	1450	290	270 x 240	400
	19 管	27 x 24.3	2100	420	325 x 295	400
	24 管	32 x 31.8	2900	580	385 x 380	400

LSZH 单管测试

测试项目	国际标准	测试条件	测试结果
拉力张力	IEC 60794-1-2 Method E1	Microduct length under tension : > 1m, Tensile load : 0.5 W* Rate of Extension : ≥ 20mm/min Duration of max load 10 min Where Maximum tensile load = 0.5x 9.81x W , N, W = mass of 1Km of component in Kg	Pass : No permanent damage or deformation to the primary tubing or component parts of the sheath assembly after an applied load at 20mm/minute.
纠结测试	IEC 60794-1-2 Method E10	Diameter : ≤ 20 x O D	Pass : The outer and inner diameter of the microducts shall show, under visual examination without magnification no damage and no reduction of diameter greater than 15%
冲击测试	IEC 60794-1-2 Method E4	Striking surface radius : 10mm Impact : 1Joules Number of impacts 3 Recovery Time : 1hr	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 microduct diameter and no splitting or permanent damage. The imprint of the anvil on the sheath is not considered as mechanical damage.
压碎测试	IEC 60794-1-2 Method E3	Sample length : 1 m Load : 400N Duration of maximum load : 1 minute No applied loads : 3 (500mm apart) Recovery time : 1 hr	Pass : No permanent damage shall be imparted to the tubes as a result of this test Permanent deformation of the individual primary tube diameter shall be less than 0.5mm as a result of this test.
弯曲测试	IEC 60794-1-2 Method E11	No Turns : 5 Mandrel diameter : ≤ 12 x OD Number of Cycles : 3	Pass : No permanent damage shall be imparted to the tubes as a result of this test Permanent deformation of the individual primary tube diameter shall be less than 0.5mm as a result of this test.
摩擦测试		Sample length : 1.5 m Mandrel diameter : 300mm 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 5kg weight shall be pulled at 1000mm/min and travel 100mm. An average force of 2 pulls shall be recorded to give a coefficient of friction less than 0.1
耐气压测试	IEC 86A/1205/CD Annex C	Test temperatures : 0°C to +40°C Pressure medium : Water (+anti freeze) Proof test pressure 12925 mbar Duration of proof test pressure: 24 hours Minimum burst test pressure 25850 mbar horizontally towards the tensile machine.	Pass : Primary tubing shall be capable of sustaining the stated requirements without bursting or loss of pressure

LSZH 管束测试

测试项目	国际标准	测试条件	测试结果
拉力张力	IEC 60794-1-2 Method E1	Microduct length under tension: > 1m Tensile load: 0.5 W* Rate of Extension: $\geq 20\text{mm/min}$ Duration of max load 10 min Where Maximum tensile load = $0.5 \times 9.81 \times W$, N, W = mass of 1Km of component in Kg	Pass : No permanent damage or deformation to the primary tubing or component parts of the sheath assembly after an applied load at 20mm/minute.
弯曲测试	IEC 60794-1-2 Method E11	No Turns : 5 Mandrel diameter : $\leq 12 \times \text{OD}$ Number of Cycle : 3	Pass : The outer and inner diameter of the microducts shall show, under visual examination without magnification no damage and no reduction of diameter greater than 15%
纠结测试	IEC 60794-1-2 Method E10	Diameter: 20 x OD	Pass : No permanent damage shall be imparted to the sheath or tubes as a result of this test Permanent deformation of the individual primary tube diameter shall be less than 0.5mm as a result of this test.
冲击测试	IEC 60794-1-2 Method E4	Striking surface radius : 10 mm Impact : 3 Joules Number of impacts 3 Recovery Time : 1 hr	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 microduct diameter and no splitting or permanent damage. This shall be verified by passing the inner clearance test. The imprint of the anvil on the sheath is not considered as mechanical damage.
压碎测试	IEC 60794-1-2 Method E3	Sample length : 1 m Load : 400N Duration of maximum load : 1 minute No applied loads : 3 (500mm apart) Recovery time : 1 hr	Pass : No permanent damage shall be imparted to the sheath or tubes as a result of this test Permanent deformation of the individual primary tube diameter shall be less than 0.5mm as a result of this test.
延燃测试	IEC 60332	Single Cable Vertical Burning Test The completed cable shall conform to IEC 60332-1. Bunched Cable Vertical Burning Test. The completed cables shall conform to IEC 60332-3.	
烟雾排放毒物测试	IEC 60754	Acid Gas Emission - The materials shall conform to IEC 60754-1. Corrosivity of Evolved Gases. The materials shall conform to IEC60754-2 Fume Emission The material shall not include any functional groups containing Halogen, Phosphorous, Nitrogen or Sulphur, however, trace amounts up to 0.5% w/w maybe permitted.	

LSZH 管束测试

测试项目	国际标准	测试条件	测试结果
烟雾排放量测试	IEC 61034-2	Cables shall conform to IEC 61034-2	During the tests there shall be no significant flame spread beyond the area of flame impingement, no dripping of liquid from the cable and no after burning
燃烧测试	BS EN ISO 4589-3	BS EN ISO 4589-3 not less than 270°C	

产品规格

产品编号	描述
AB-101NLWH	1 管 LSOH 吹气光纤微管 · 5 / 3.5mm
AB-102NLWH	2 管 LSOH 吹气光纤微管 · 5 / 3.5mm
AB-104NLWH	4 管 LSOH 吹气光纤微管 · 5 / 3.5mm
AB-107NLWH	7 管 LSOH 吹气光纤微管 · 5 / 3.5mm
AB-112NLWH	12 管 LSOH 吹气光纤微管 · 5 / 3.5mm
AB-119NLWH	19 管 LSOH 吹气光纤微管 · 5 / 3.5mm
AB-124NLWH	24 管 LSOH 吹气光纤微管 · 5 / 3.5mm