AIR BLOWN

AIS 吹气光纤解决方案
直接埋管室外用微管

产品簡介

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。

管道 PE 室外直埋微管

- 依照您的需求，5/3.5mm 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。
- 双 PE 材质外被适用于直接埋設户外应用。
- 直接埋入预先挖好的沟渠。可直接埋入土壤中。
- 铠装接受订制。

技术参数

	外径		内径		外皮厚度			压力
	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Silicon	MBar
5/3.5mm	4.9	5.1	3.4	3.6	0.75	0.85	0.1	12
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 PE微管	1 管	12.4	1100	116	160	2000
	2 管	17.4 x 12.4	1500	157	160	2000
	4 管	19.4	2200	231	250	2000
	7 管	22.4	2800	297	290	2000
	12 管	28.6	4200	455	370	2000
	19 管	32.7	5400	580	450	2000
	24 管	38.3	6800	687	520	2000
10/8mm PE微管	1 管	17.4	1700	190	240	2000
	2 管	27.4 x 17.4	2700	293	260	2000
	4 管	32.9	4700	506	460	2000
	7 管	38.8	6200	669	540	2000
12/10mm PE微管	1 管	19.4	2000	219	270	2000
	2 管	27.4 x 19.4	3100	343	270	2000
	4 管	37.8	5500	597	530	2000
	7 管	44.8	7400	795	630	2000

PE 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 tothe primary tubing or component parts ofthe 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 pressure25850 mbar horizontally towards the tensile machine	Pass : Primary tubing shall be capable of sustaining the stated requirements without bursting or loss of pressure

PE 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 : ≥ 20mm/min Duration of max load 10 min Where Maximum tensile load = 0.5x 9.81 x 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 diamete : ≤12 x 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.

产品规格

产品编号	描述
AB-301NBOR	1 管 PE 室外直埋吹气光纤微管 · 5 / 3.5mm
AB-302NBOR	2 管 PE 室外直埋吹气光纤微管 · 5 / 3.5mm
AB-304NBOR	4 管 PE 室外直埋吹气光纤微管 · 5 / 3.5mm
AB-307NBOR	7 管 PE 室外直埋吹气光纤微管 · 5 / 3.5mm
AB-312NBOR	12 管 PE 室外直埋吹气光纤微管 · 5 / 3.5mm
AB-319NBOR	19 管 PE 室外直埋吹气光纤微管 · 5 / 3.5mm
AB-324NBOR	24 管 PE 室外直埋吹气光纤微管 · 5 / 3.5mm
AB-331NBOR	1 管 PE 室外直埋吹气光纤微管 · 10 / 8mm
AB-332NBOR	2 管 PE 室外直埋吹气光纤微管 · 10 / 8mm
AB-334NBOR	4 管 PE 室外直埋吹气光纤微管 · 10 / 8mm
AB-337NBOR	7 管 PE 室外直埋吹气光纤微管 · 10 / 8mm
AB-351NBOR	1 管 PE 室外直埋吹气光纤微管 · 12 / 10mm
AB-352NBOR	2 管 PE 室外直埋吹气光纤微管 · 12 / 10mm
AB-354NBOR	4 管 PE 室外直埋吹气光纤微管 · 12 / 10mm
AB-357NBOR	7 管 PE 室外直埋吹气光纤微管 · 12 / 10mm