

Aurora AFOC-SILSZH-12C Fiber Optic Cable
Aurora AFOC-SILSZH-24C Fiber Optic Cable

- ▶ Metal free indoor cable
- ▶ Completely dry design
- ▶ For direct connector assembly
- ▶ High flexibility and light weight
- ▶ Halogen free
- ▶ Non-corrosive fire gases
- ▶ Low fire load
- ▶ High safety requirements
- ▶ UL 94V-0 Jacket Material



SPECIFICATIONS

- | | |
|---------------------------------|-----------------|
| 1. Fiber | SM / MM (250 μ) |
| 2. Semi-Tight Buffer Tube | 900μLSZH |
| 3. Strength Member | Aramid yarn |
| 4. Outer Jacket | LSZH |

CABLE CONSTRUCTION



ENVIRONMENTAL PROPERTIES

Test Description	Test Conditions	Cable Diameter (mm)	Value	Method
Temperature Range	Installation	All	-10 to +50 °C	IEC 60794-1-22 F1
	In service	All	-25 to +70 °C	
	In storage	All	-40 to +70 °C	
Fire Load		1.8	0.07 MJ/m	-
		2	0.08 MJ/m	-
		2.7	0.15 MJ/m	-
Fire Propagation	On a vertical single cable	All	Passed	IEC 60332-1-2
Smoke Density	Jacket material	All	Passed	IEC 61034-2
Halogen Acid Gas	Jacket material	All	Passed	IEC 60754-1
Degree of Acidity	Jacket material	All	Passed	IEC 60754-2

OPTICAL CHARACTERISTICS

Fiber Type		SM	OM1	OM2	OM3	OM4
Jacket Color		Yellow	Orange	Orange	Aqua	Violet
Core Diameter(μm)		9.0 ±0.5	62.5 ±2.5	50 ±2.5	50 ±2.5	50 ±2.5
Cladding Diameter (μm)		125 ±5.0	125 ±5.0	125 ±5.0	125 ±5.0	125 ±5.0
Primary Coating Diameter (μm)		245 ±10	245 ±10	245 ±10	245 ±10	245 ±10
Max. Attenuation in Cable (dB/km)	@1310 nm	≤ 0.40	--	--	--	--
	@1550 nm	≤ 0.30	--	--	--	--
	@850 nm	--	≤ 3.4	≤ 3.0	≤ 3.0	≤ 3.0
	@1300 nm	--	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Bandwidth (overfilled)	@850 nm	--	200 Mhz*km	500 Mhz*km	1500 Mhz*km	3500 Mhz*km
	@1300 nm	--	500 Mhz*km	500 Mhz*km	500 Mhz*km	500 Mhz*km
Serial Ethernet	@850 nm	--	--	--	1000 meters	1040 meters
1 Gigabit	@1300 nm	--	--	--	600 meters	600 meters
Serial Ethernet	@850 nm	--	--	--	300 meters	550 meters
10 Gigabit	@1300 nm	--	--	--	300 meters	300 meters

MECHANICAL PROPERTIES

Test Description	Test Conditions	Cable Diameter (mm)	Value	Method
Semi Tight Diameter	-	All	0.9 mm	IEC 60811-203
Cable Weight (Nominal)	-	1.8	3.5 kg/km	IEC 60811-203
	-	2	4.1 kg/km	
	-	2.7	7.4 kg/km	
Max. Tensile Strength	Installation	1.8 / 2.0	200 N	IEC 60794-1-2 E1
	In service		100 N	
	Installation	2.7	400 N	IEC 60794-1-2 E1
	In service		200 N	
Min. Bending Radius	Installation	1.8 / 2.0	50 mm	IEC 60794-1-2 E11
	In service		25 mm	
	Installation	2.7	50 mm	IEC 60794-1-2 E11
	In service		25 mm	
Crush Resistance	Short Term	1.8 / 2.0	3000 N/dm	IEC 60794-1-2 E3
	Long Term		1000 N/dm	
	Short Term	2.7	4000 N/dm	IEC 60794-1-2 E3
	Long Term		1000 N/dm	
Impact Resistance	Wp=0.5J	1.8 / 2.0	3 impacts	IEC 60794-1-2 E4
	Wp=1.0J	2.7	20 impacts	
Repeated Bending	r=25mm	All	5000 cycles	IEC 60794-1-2 E6