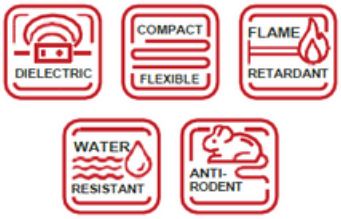
AURORA
Communication Technologies

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

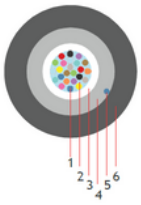
- Metal free indoor cable
- Glass yarn strength member
- Ripcord for easy stripping
- Gel filled tube
- Halogen free
- Non-corrosive fire gases
- Low fire load
- High safety requirements
- Longitudinal and transversal watertight cable



SPECIFICATIONS

CABLE CONSTRUCTION

1. Fiber
2. Tube Filling Material
3. Loose Tube
4. Strength Member
5. Ripcord
6. Outer Jacket



ENVIRONMENTAL PROPERTIES

Test Description	Test Conditions	Value	Method
Temperature Range	Installation	-30 to +60 °C	IEC 60794-1-22 F1
	In service	-20 to +70 °C	
	In storage	0 to +70 °C	
Fire Load	__	1.3 Mj/m	
Fire Propagation	On a vertical single cable	Passed	IEC 60332-1-2
Smoke Density	Jacket material	Passed	IEC 61034-2
Halogen	Jacket material	Passed	IEC 60754-1
Degree of Acidity	Jacket material	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	Value	Test Standard
Fiber Count	__	12 Fiber/ 24 Fiber	IEC 60811-203
Tube Diamete	__	2.5 ±3% mm/ 3.0 ±3% mm	
Approx. Cable Diameter	__	8.0 ±0.2 mm/ 8.2 ±0.2 mm	
Approx. Cable Weight	__	68 ±10% kg/km /76 ±10% kg/km	__
Max. Tensile Strength	Installation	1200 N	IEC 60794-1-2 E1
	In service	600 N	
Min. Bending Radius	Installation	20 x D	IEC 60794-1-2 E11
	In service	15 x D	
Crush Resistance	Short Term	3000 N/dm	IEC 60794-1-2 E3
	Long Term	1600 N/dm	
Impact Resistance	Wp=1.5J	3 impacts	IEC 60794-1-2 E4
Repeated Bending	r=20xD	35 cycles	IEC 60794-1-2 E6
Water Penetration	h=1m, 48h, p < 3m	passed	IEC 60794-1-22 F5B