

SUN-MAC Multi Cores Mini Armored Fiber Optic Cable

Sun Telecom's SUN-MAC mini armored fiber optic cable possesses same OD as general fiber optic cable that enables to assemble with any standard connectors. Aramid yarn ensures the fiber optics to avoid pulling. Armored structure protects the fiber optics to resist press and improper torsion. The outer coating is optional for flame retardant, RoHS requirement or temperature resistance according to different environments. The cable is light weight, good bending capacity and high flexibility.

Cable Construction



Features

- High indentation strength, high tensile strength and rodent protection
- Small diameter, high flexibility and easy bending
- Suitable for SM fiber and MM fiber (50μm and 62.5μm)

Applications

- Level and vertical cabling
- FTTH project
- Connection between outdoor optical equipments
- Connection between BBU and RRU in base station

Fiber Optic Characteristics

Parameters	Specification		
Fiber Type	SM G652D	MM 50/125	MM 62.5/125
Core Diameter (um)	9.2 ± 0.4	50 ± 2.5	62.5 ± 2.5
Cladding Diameter (um)	124.8 ± 0.7	124.8 ± 1.0	124.8 ± 1.0
Cladding Non-circularity (%)	≤ 0.7	≤ 1.0	≤ 1.0
Core-cladding Concentricity (mm)	≤ 0.5	≤ 1.5	≤ 1.5
Coating Diameter (um)	245 ± 5	245 ± 7	245 ± 7



Coating-cladding Concentricity Error	≤ 12.0		≤ 12.0		≤ 12.0	
Zero Dispersion Wavelength (nm)	1302 ~ 1322		1295 ~ 1320		1320 ~ 1365	
Zero Dispersion Stop (ps/(nm ² .km))	≤ 0.090		≤ 0.101		≤ 0.097	
Group Index of Refraction	1310nm	1550nm	850nm	1300nm	850nm	1300nm
	1.4670	1.4677	1.481	1.476	1.496	1.491

Cable Specifications

Parameters		Specification									
Fiber Type		Tight Buffer Fiber (0.55/0.6/0.9mm)				Bare Fiber (0.25mm)					
Fiber Count		4	6	8	12	4	6	8	12	24	48
Cable Diameter (mm)		6.5	6.5	7.5	7.5	5.0	5.0	5.0	5.0	6.5	8.5
Cable Weight (kg/km)		65	65	75	75	45	45	45	45	65	90
Tensile Strength (N)	Long Term	600								800	800
	Short Term	800								1500	1500
Crush Resistance (N/10cm)	Long Term	3000									
	Short Term	5000									
Bending Radius (mm)	Dynamic	20D									
	Static	10D									
Attenuation (After Cable) (dB/km)	MM Fiber	3.5 @850nm 1.5 @1300nm									
	SM Fiber	0.4 @1310nm 0.3 @1550nm									
Material	Mental Tube	SUS204 (default), SUS304 (optional)									
	Strength Member	Aramid yarn									
	Metal Braid	SUS304									
Operation Temperature (°C)	PVC	-20 ~ +70									
	LSZH	-20 ~ +90									
	PU	-40 ~ +85									



Ordering Information

SUN-MAC-25-SMA1-12-PVC-B

Fiber Type

25: 0.25mm Bare fiber
60: 0.6mm Tight buffer fiber
55: 0.55mm Tight buffer fiber
90: 0.9mm Tight buffer fiber

Fiber Mode

SM: SM G652D
SMA1: SM G657A1
OM1: MM 62.5
OM2: MM 50

Fiber Count

04: 4 cores
...
48: 48 cores

Jacket Material: PVC, LSZH, PU, OFCR, PE, Teflon

B: With metal braid (Blank if without metal braid)

Example: SUN-MAC-25-SM-D12-LSZH-B

Mini Armored Cable; SM 9/125um, G652D Fiber; 12 fibers; 0.25mm bare fiber; 5.0mm LSZH Outer Sheath (blue); With braid

Note: For the necessity of improvement, the material contained in this document is subject to change without notice.

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