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Product Datasheet fiber optic cable: InAir ADSS MT Aramid-4kN

Order information	
Design	Part number
InAir ADSS MT Aramid-48U (4x12)-4kN	0059-66978-2
InAir ADSS MT Aramid-72U (6x12)-4kN	0059-94819-2

Other fiber counts available upon request

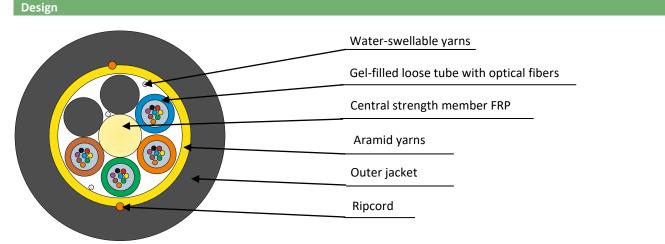
Typical application and features

- Aerial installation between poles and buildings
- Aerial installation on powerlines
- Aerial installation for communication lines
- Pulling into underground ducts and sewer pipes
- Installation along bridges, tunnels and other structures
- Installation into indoor/outdoor cable conduits and trays



UV-resistant

All-dielectric design



Cable consists of stranded core with central strength member (FRP), gel-filled loose tubes with optical fibers and PE fillers. Stranded core is fixed by water-swellable yarns. Aramid yarns are laid over stranded core. Outer jacket is made of MDPE. Two orange ripcords are laid under outer jacket. Meets IEEE 1222-2011.



Other colors upon request

Cable I	marking ex	ample										
Markir	ig is made	on each 2 feet of	cable									
00001 FT	= INCAB	OPTICAL CABLE =	PART NUMBER	InAir ADSS MT	Aramid	48	U	(4	х	12)	4kN	2021
1	2		3	4		5	6	7		8	9	10
1 len	gth markir	ng unit		6	Fiber ty	ype						
2 Manufacturer 7 Number of loose tubes												
3 Pa	rt number			8 Fibers per loose tube								
4 Ca	ole trade n	ame		9	9 Maximum rated design tension							
5 Fib	er count			10	Year of	[;] pro	ducti	on				
ddition	al informatio	on upon request. N	larking can also	be in meters								

Additional information upon request. Marking can also be in meters

Design details					
Fiber count		48	72		
Number of loose tubes		4	6		
Fibers per loose tube		12			
Loose tube diameter	mm (in)	2.6 (0.102)			
Outer jacket thickness	mm (in)	1.7 (0.067)			
Cable diameter ± 0.2 (0.008)	mm (in)	11.4 (0.449)			
Cable weight	kg/km (lb/ft)	97.5 (0.066)			
Maximum rated design tension	kN (lb)	4.0 (899)			
Zero fiber strain margin	kN (lb)	3.0 (675)		
Stringing tension (STT)	kN (lb)	1.0 (225)		
Rated breaking strength (RBS)	kN (lb)	8.63 (1940)		
Modulus of elasticity, initial	kN/ mm² (ksi)	5.31	(770)		
Modulus of elasticity, final	kN/mm² (ksi)	5.73	(832)		
Modulus of elasticity, creep	kN/mm² (ksi)	3.71	(539)		
Cable cross-sectional area	mm² (in²)	101.5	(0.157)		
Coefficient of thermal expansion, 10 ⁻⁶	1/°C (1/°F)	14.97	(8.31)		

Other design upon request

Optical fiber				
Fiber type	«U»			
Fiber manufacturer	Corning SMF 28 [®] ULTRA			
ITU-T Recommendation	G.652D + G.657.A1			
Dimensional Specifications				
Core-Clad Concentricity	0.5 μm			
Cladding Diameter	125 ±0.7 μm			
Cladding Non-Circularity	0.7 %			
Coating Diameter	242 ±5 μm			
Transmissi	on Specifications			
Attenuation in the cable (dB/km)*:				
1310 nm wavelength (Typical** / Max.)	0.32 / 0.34			
1550 nm wavelength (Typical** / Max.)	0.19 / 0.20			

* Local attenuation discontinuities caused by cable winding on a reel are allowed.

** Typical attenuation is the real level of optical attenuation of at least 90% fibers after cabling

Additional information about optical fiber at $\underline{www.incabamerica.com}$

Operating parameters				
	-50°C+70°C	-58°F+158°F		
Operation temperature range	-60°C+70°C*	-76°F+158°F*		
	* Available upon request	* Available upon request		
Installation temperature range	-30°C+50°C	-22°F+122°F		
Transportation and storage temperature range	-50°C+70°C	-58°F+158°F		
Minimum bending radius	15 x cable diameter			
Design life	25 years (per fiber supplier)			

Reel capacity		
Standard maximum reel length*	4,000 m	13,000 ft
* Longer length may be possible	· · · · · · · · · · · · · · · · · · ·	

Nominal value	Evaluation criterion		
kN			
22 kN/cm	- Δα* ≤ 0.10 dB - no damage		
10 cycles corsion angle ±360° length 4 m			
ample length: 3 m esting time: 24 hours	No water at the cable end		
emperature range from -50°C to 70°C 2 cycles cycle period ≥16 hours	Δα ≤ 0.10 dB/km		
65°C	No dripped compound		
	kN 22 kN/cm 0 cycles orsion angle ±360° length 4 m imple length: 3 m esting time: 24 hours emperature range from -50°C to 70°C 2 cycles cycle period ≥16 hours		

* - attenuation increasing at standard wavelengths

** - other temperature range upon request

Reel packing and marking

Cables are supplied on non-returnable wooden reels. Reel diameter is not less than 40 diameters of the cable. Not less than 2 m of inside end of the cable is fixed to the reel flange. The cable ends are sealed with waterproof covers. The label on the outer reel flange contains our trademark, cable type, customer's name and PO, reel number, production date, cable length, cable weight net/gross.

The following information is printed on the reel flange: manufacturer's name and website, rotation direction, cable end indication, shipping and handling summary, labels "Fragile" and "Handle with care".

Our cable passport shows: cable type, technical standard number, cable length, fiber type, fiber coloring, fibers per tube, tube identification coloring, final attenuation for all fibers, refractive index of the fiber, fiber manufacturer and production date.

Cable passport is affixed to the inner flange in a plastic bag. Additional information can be included on the passport upon request.

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