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Incab America LLC

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Product Datasheet fiber optic cable: InAir ADSS 24 Ultra 4kN 0.449

Order information			
Design	Part number		
InAir ADSS 24 Ultra 4kN 0.449	552935		

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

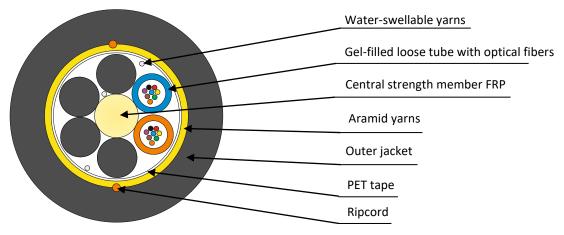


All-dielectric design



UV-resistant

Design



Cable consists of stranded core with central strength member (FRP), gel-filled loose tubes with optical fibers and PE fillers (black color). PET tape is laid over loose tubes layer. PET tape used in the designs with PE filler rods. Stranded core is fixed by water-swellable yarns. Aramid yarns are laid over stranded core. Outer jacket is made of MDPE. Two ripcords are laid under outer jacket.

Optical fibers and loose tubes color identification:



Other colors upon request

Cable marking example

Marking is made on each 2 feet of cable

00001 FT	= INCAB	OPTICAL CABLE =	PART NUMBER	InAir ADSS	24	Ultra	4kN	0.449	8	2022
				I						
1	2		3	4	5	6	7	8		9
1 Len	gth markir	ng unit		6	Fiber ty	ре				
2 Mai	nufacture			7	Maximu	ım rated	design ten	sion		
3 Part	number			8	Diamete	er				
4 Cab	le trade n	ame		9	Year of	productio	on			
5 Fibe	er count									

Additional information upon request. Marking can also be in meters

Design details		
Fiber count		48
Number of loose tubes		4
Fibers per loose tube		12
Loose tube diameter	in (mm)	0.102 (2.6)
Outer jacket thickness	in (mm)	0.069 (1.75)
Cable diameter ± 0.008 (0.2)	in (mm)	0.449 (11.4)
Cable weight	lb/ft (kg/km)	0.065 (97.0)
Maximum rated design tension	lb (kN)	899 (4.0)
Zero fiber strain margin	lb (kN)	787 (3.5)
Stringing tension (STT)	lb (kN)	225 (1.0)
Rated breaking strength (RBS)	lb (kN)	1327 (5.9)
Modulus of elasticity, initial	ksi (kN/ mm²)	525 (3.6)
Modulus of elasticity, final	ksi (kN/ mm²)	567 (3.9)
10-year modulus of elasticity, creep	ksi (kN/ mm²)	410 (2.8)
Cable cross-sectional area	in² (mm²)	0.158 (101.8)
Coefficient of thermal expansion, 10 ⁻⁶	1/°F (1/°C)	13.07 (23.54)

Other design upon request

-50°C+70°C		
30 C 170 C		
-30°C+50°C		
-50°C+70°C		
15 x cable diameter		
10 x cable diameter		
25 years (per fiber supplier)		

Reel capacity		
Standard maximum reel length*	20,000 ft	6,100 m

^{*} Longer length may be possible

Performance standard

Complies with IEEE 1222-2019 requirements

Optical fiber			
Fiber type	«Ultra»		
Product name	Corning SMF 28°ULTRA		
ITU-T Recommendation	G.652D + G.657.A1		
Transmission 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 www.incabamerica.com

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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