

Product Datasheet

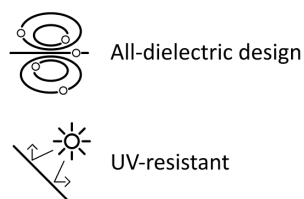
fiber optic cable: InAir ADSS DJ 48Ultra 7kN 0.516

Order information

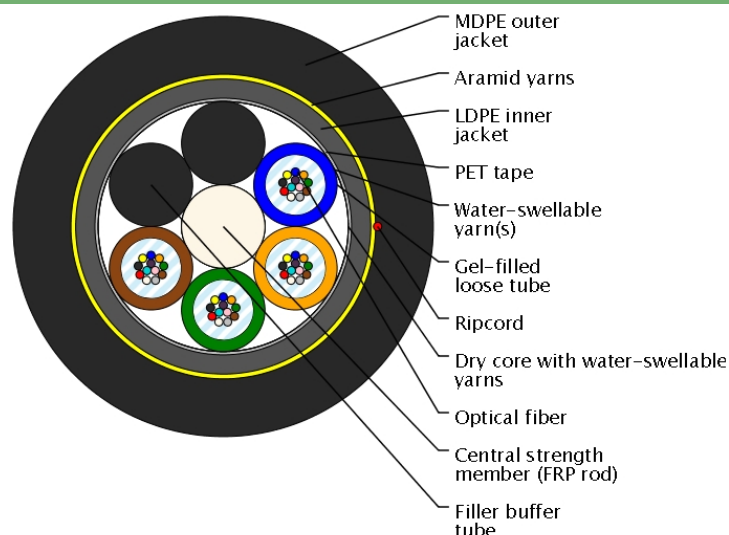
Design	Part number
InAir ADSS DJ 48Ultra 7kN 0.516	554988
Other fiber counts available upon request	

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



Design



Color identification of optical fibers:

1	2	3	4	5	6	7	8	9	10	11	12
											
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua


Color identification of loose tubes:

1	2	3	4
			
Blue	Orange	Green	Brown

Other colors upon request

Cable marking example

Marking is made on each 2 feet of cable

00001 FT		= INCAB	OPTICAL CABLE =		554988		InAir ADSS DJ		48	Ultra	0.516	7 kN		2022
1		2			3		4		5	6	7	8		9
1	Length marking unit						6	Fiber type						
2	Manufacturer						7	Maximum rated design tension						
3	Part number						8	Diameter						
4	Cable trade name						9	Year of production						
5	Fiber 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
Number of fillers		2
Loose tube diameter	in (mm)	0.102 (2.6)
Inner jacket thickness	in (mm)	0.028 (0.7)
Outer jacket thickness	in (mm)	0.071 (1.8)
Cable diameter ± 0.008 (0.2)	in (mm)	0.516 (13.1)
Cable weight	lb/ft (kg/km)	0.09 (134)
Maximum rated design tension	lb (kN)	1574 (7.0)
Zero fiber strain margin	lb (kN)	1637 (7.28)
Stringing tension (STT)	lb (kN)	393 (1.75)
Rated breaking strength (RBS)	lb (kN)	2754 (12.25)
Modulus of elasticity, initial	ksi (kN/ mm ²)	824 (5.68)
Modulus of elasticity, final	ksi (kN/ mm ²)	889 (6.13)
10-year modulus of elasticity, creep	ksi (kN/ mm ²)	643 (4.43)
Cable cross-sectional area	in ² (mm ²)	0.209 (134.8)
Coefficient of thermal expansion, 10 ⁻⁶	1/°F (1/°C)	7 (12.53)

Other design upon request

Optical fiber

Fiber type	«Ultra»
Product name	Corning SMF 28®ULTRA
ITU-T Recommendation	G.652.D + 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

Operating parameters		
Operating temperature	-58°F...+158°F	-50°C...+70°C
Installation temperature	-22°F...+122°F	-30°C...+50°C
Transportation and storage temperature	-58°F...+158°F	-50°C...+70°C
Minimum bending radius, with load	20 x cable diameter	
Minimum bending radius, with no load	15 x cable diameter	
Design life	25 years (per fiber supplier)	

Reel capacity		
Standard maximum reel length*	20,000 ft	6,098 m
*Longer length may be possible upon request		

Performance standard		
Complies with IEEE 1222-2019 requirements		

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 the following information: 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. Additional information can be included on the passport upon request.		

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