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All-dielectric design

UV-resistant

01.09.2023

## Product Datasheet fiber optic cable: InAir ADSS DJ 288 Ultra 15kN 0.963

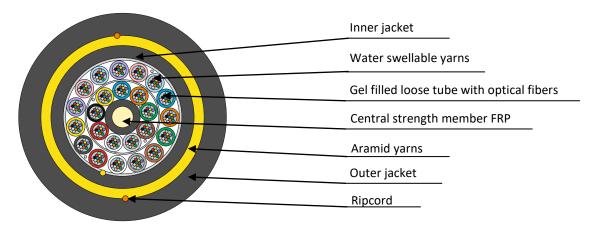
Order information				
Design	Part number			
InAir ADSS DJ 288 Ultra 15kN 0.963	550417			

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

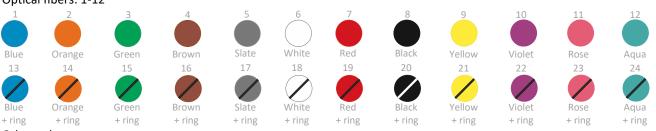
Design



Cable consists of stranded core with central strength member (FRP) and two layers of gel-filled loose tubes with optical fibers. Stranded core is fixed by water swellable yarns. Water swellable tapes are laid between the layers and over second layer. Inner jacket is made of LDPE. One ripcord is laid under inner jacket. Aramid yarns are laid over inner jacket. Outer jacket is made of MDPE. Two ripcords are laid under outer jacket.

## **Optical fibers and loose tubes color identification:**

Loose tubes in the 1<sup>st</sup> layer: 1-9 Loose tubes in the 2<sup>nd</sup> layer: 10-24 Optical fibers: 1-12



Other colors upon request

00001 F	= INCAB	OPTICAL CABLE =	PART NUMBER	InAir ADSS DJ	288	Ultra	15kN	0.963	ß	2022
1	2		3	4	5	6	7	8		9
1 Ler	gth markin	g unit		6	Fiber typ	be				
2 Ma	nufacturer			7	Maximu	m rated	design tensi	on		
3 Par	t number			8	Diamete	er				
4 Cal	ole trade na	me		9	Year of p	productio	on			
5 Fib	er count									

Design details		
Fiber count		288
Number of loose tubes		24
Fibers per loose tube		12
Loose tube diameter	in (mm)	0.118 (3.0)
Inner jacket thickness	in (mm)	0.039 (1.0)
Outer jacket thickness	in (mm)	0.059 (1.5)
Cable diameter ± 0.008 (0.2)	in (mm)	0.963 (24.4)
Cable weight	lb/ft (kg/km)	0.27 (402.0)
Maximum rated design tension	lb (kN)	3373 (15.0)
Zero fiber strain margin	lb (kN)	2541 (11.3)
Stringing tension (STT)	lb (kN)	843 (3.75)
Rated breaking strength (RBS)	lb (kN)	6970 (31)
Modulus of elasticity, initial	ksi (kN/ mm²)	599 (4.13)
Modulus of elasticity, final	ksi (kN/ mm²)	647 (4.46)
10-year modulus of elasticity, creep	ksi (kN/ mm²)	467 (3.22)
Cable cross-sectional area	in² (mm²)	0.726 (468.4)
Coefficient of thermal expansion, 10 <sup>-6</sup>	1/°F (1/°C)	8.54 (15.37)
Other design upon request		

Other design upon request

Operating parameters		
Operation temperature range	-40°F+158°F	-40°C+70°C
Installation temperature range	-22°F+122°F	-30°C+50°C
Transportation and storage temperature range	-58°F+158°F	-50°C+70°C
Minimum bending radius, with load	15 x cable diameter	
Minimum bending radius, with no load	10 x cable diameter	
Design life	25 years (per fiber supplier)	
Maximum space potential	12 kV	

 Reel capacity

 Standard maximum reel length\*
 5,000 ft
 1,520 m

 \* Longer length may be possible

Longer length may be possible

Performance standard Complies with IEEE 1222-2019 requirements

Optical fiber					
Fiber type	«Ultra»				
Product name	Corning SMF 28 <sup>®</sup> ULTRA				
TU-T Recommendation G.652D + G.657.A1					
Transmission Specifications					
Attenuation in the cable (dB/km)*:					
1310 nm wavelength (Max.)	0.35				
1550 nm wavelength (Max.)	0.25				
* Local attenuation discontinuities caused by cable winding on a reel are allowed					

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.