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Product Datasheet

Fiber Optic Cable: A-DQ4Y Blowing MT 12 PA 432 (36x12) G.657.A1 3000N Ø10.7mm (ANSI)

Order information	
Design	Part number
Blowing MT 12 PA 432 (36x12) G.657.A1 3000N Ø10.7mm (ANSI)*	561988

* The design is preliminary; its technical parameters are subject to revision. The lead time for this design should be agreed separately.

Product Pros









Cables are tested according to IEC 60794-1-21:2015

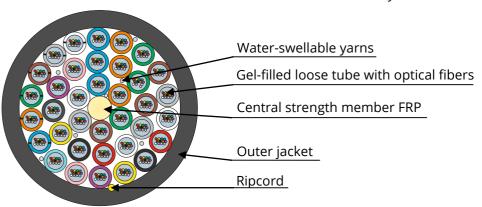
Tube inner diameter suitable for blowing

All-dielectric design

Tension: installation 3000N operation 1000 N

Application and design

- Blowing into microducts
- Installation into indoor/outdoor cable conduits and trays



Cable consists of stranded core with central strength member (FRP) and three layers of gel-filled loose tubes with optical fibers. Stranded core is fixed by water-swellable yarns. Outer jacket is made of polyamide PA12. Ripcord is laid under the cable jacket. Color of outer jacket is black.

Color identification of loose tubes and optical fibers is according to ANSI/TIA-598-D-2014

Loose tubes 1st layer: 1-6 Loose tubes 2nd layer: 1-12 Loose tubes 3rd layer: 1-18

Optical fibers: 1-12



Other colors upon request

Cable marking example

Marking is made on each meter of cable

Fiber optic cable =	= INCAB EUROPE =	Blowing MT 12	PA	432	36	х	12	G.657.A1	3000N	Ø10.7mm	BATCH	2023	= 00001 m =
		1	2	3	4		5	6	7	8	9	10	11
1 Cable name							7	Installation	tension				

2 Jacket type

3 Fiber count

4 Number of loose tubes

5 Fibers per loose tube

6 Fiber type

8 Cable diameter

9 Batch number

10 Year of production

11 Meter marking

Design details		
Fiber count		432
Number of loose tubes		36
Fibers per loose tube		12
Number of PBT fillers		• •
Cable diameter ±0.2	mm	10.7
Cable weight	kg/km	60.5

Other designs upon request

Operating parameters	
Operating temperature	-20°C+70°C
Installation temperature	-20°C+50°C
Transportation and storage temperature	-20°C+70°C
Minimum bending radius	15 x cable diameter
Design life	25 years (per fiber supplier)

Optical fiber				
Fiber type	«G.657.A1»			
Fiber brand	Corning® SMF 28®ULTRA			
ITU-T Recommendation	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			
Transmission Specifications				
Attenuation in the cable (dB/km)*:				
1310 nm wavelength (Typical** / Max.)	0.32 / 0.35			
1550 nm wavelength (Typical** / Max.)	0.19 / 0.21			

^{*} 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 fibers on www.incabeurope.com

Nominal value	Evaluation criterion		
Long termShort termcalc. OF strain ≤ 0.20 %calc. OF strain ≤ 0.60 %1.0 kN3.0 kN			
0.1 kN/cm	- Δα* ≤ 0.10 dB		
20 cycles, bending radius ±90°	- no damage		
- 10 cycles - torsion angle ±360° length 4 m			
Impact energy 5 J			
Sample length: 3 m Testing time: 24 hours	No water at the cable end		
temperature range from -20°C to 70°C2 cyclescycle period ≥16 hours	∆α* ≤ 0.10 dB/km		
at 70°C	No dripped compound		
	Long term Short term calc. OF strain ≤ 0.20 % calc. OF strain ≤ 0.60 % 1.0 kN 3.0 kN 0.1 kN/cm 20 cycles, bending radius ±90° - 10 cycles - torsion angle ±360° length 4 m Impact energy 5 J Sample length: 3 m Testing time: 24 hours - temperature range from -20°C to 70°C - 2 cycles - cycle period ≥16 hours		

^{* -} attenuation increasing at standard wavelengths

Safety standards compliance

RoHS: 2011/65/EU; 2015/863/EU "Restriction on the use of certain Hazardous Substances"

REACH: 1907/2006/EU "Registration, Evaluation, Authorisation and Restrictions of Chemicals"

^{** -} 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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