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## **Product Datasheet**

Fiber Optic Cable: A-DQ4Y Blowing MT 12 PA G.657.A1 750N Ø4.5mm (ANSI)

Order information	
Design	Part number
Blowing MT 12 PA 12 (1x12) G.657.A1 750N Ø 4.5mm (ANSI)	562021
Blowing MT 12 PA 24 (2x12) G.657.A1 750N Ø 4.5mm (ANSI)	562022
Blowing MT 12 PA 36 (3x12) G.657.A1 750N Ø 4.5mm (ANSI)	562023
Blowing MT 12 PA 48 (4x12) G.657.A1 750N Ø 4.5mm (ANSI)	562024
Blowing MT 12 PA 72 (6x12) G.657.A1 750N Ø 4.5mm (ANSI)	562025

#### **Product Pros**



BLOWING DISTANCE = 1700 m







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

Performance at the blowing test track confirmed

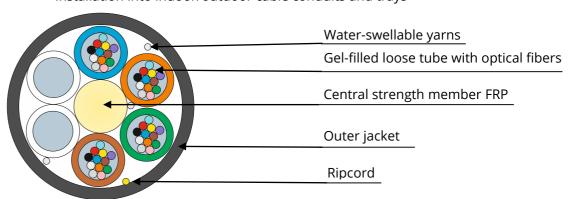
Tube inner diameter suitable for blowing

All-dielectric design

Tension: installation 750N operation 250N

## Application and design

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



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

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



Other colors upon request

# Cable marking example

Marking is made on each meter of cable

Fiber optic cable = INCAB EUROPE =	Blowing MT 12	PA	48	4	x 12	G.657.A1	750N	Ø 4.5mm	BATCH	2023	= 00001 m =
	1	2	3	4	5	6	7	8	9	10	11
<ul> <li>Cable name</li> <li>Jacket type</li> <li>Fiber count</li> <li>Number of loose tubes</li> <li>Fibers per loose tube</li> <li>Fiber type</li> </ul>					7 8 9 10 11	Installatio Cable dia Batch nur Year of pr Meter ma	meter mber roduction				
Design details											
Fiber count						12	24	36	48		72
Number of loose tubes						1	2	3	4		6
Fibers per loose tube								12	_		
Number of PBT fillers						5	4	3	2		-
Cable diameter ±0.2	mm							4.5			
Cable weight	kg/kn	n						14.2			
Other designs upon request											
Operating parameters											
Operating temperature							-3	30°C+70°	C		
Installation temperature	-30°C+50°C										
Transportation and storage	ransportation and storage temperature -60°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 200										
ITU-T Recommendation					G.657.A1						
Dimensional Specifications											
Core-Clad Concentricity					-			0.5 µm			
Cladding Diameter							1	25 ±0.7 μr	n		
Cladding Non-Circularity								0.7 %			
Coating Diameter						200 ±5 μm					
		Tr	ansr	nissi	on Spe	cificatio	ns				
Attenuation in the cable (dB	/km)*:										
1310 nm wavelength (Typica	al** / Max.)							0.32 / 0.35			
1550 nm wavelength (Typica	al** / Max.)							0.19 / 0.21			

<sup>\*</sup> Local attenuation discontinuities caused by cable winding on a reel are allowed.

<sup>\*\*</sup> 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

Blowing performance					
Tube outer/inner diameter, mm	Installation distance, m				
10/6	950				
12/8	1700				

Cable parameters			
Parameter	Nom	ninal value	Evaluation criterion
Tensile strength (IEC 60794-1-21 method E1)	Long term calc. OF strain ≤ 0.20 % 250 N	Short term calc. OF strain ≤ 0.60 % 750 N	- Δα* ≤ 0.10 dB after test - no damage
Crush (IEC 60794-1-21 method E3)	0.04 kN/cm		- Δα* ≤ 0.10 dB - no damage
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending	radius ±90°	
Torsion	- 10 cycles		- $\Delta$ α* ≤ 0.10 dB
(IEC 60794-1-21 method E7)	- torsion angle ±36	0° length 4 m	- no damage
Impact (IEC 60794-1-21 method E4)	Impact energy 2 J		
Water penetration (IEC 60794-1-22 method F5C)	Sample length: 3 m Testing time: 24 ho		No water at the cable end
Temperature cycling** (IEC 60794-1-22 method F1)	- temperature rang - 2 cycles - cycle period ≥16 h	ge from -30°C to 70°C nours	∆α* ≤ 0.10 dB/km
Compound flow (IEC 60794-1-21 method E14)	at 70°C		No dripped compound

<sup>\* -</sup> 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"

#### 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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<sup>\*\* -</sup> other temperature range upon request