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# Product Datasheet

Fiber Optic Cable: A-DQ2Y Blowing MT 12 PE 192 (16x12) G.657.A1 1600N Ø8.4mm (ANSI)

Order informatio	n						
	Design	Part number					
Blowing MT 12 PE 192 (16x12) G.657.A1 1600N Ø8.4mm (ANSI)			561656				
Product Pros							
10R S S S S S S S S S S S S S S S S S S S	BLOWING DISTANCE = 2000 m		$\overline{\bigcirc}$				
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 1600N operation 550 N			
Application and	docian						
	ito microducts						
•	n into indoor/outdoor cable co	onduits and travs					
	Water-swellable yarns						
Gel-filled loose tube with optical fibers							
	Central strength member FRP						

Outer jacket

Cable consists of stranded core with central strength member (FRP) and two layers of gel-filled loose tubes with optical fibers and PBT fillers. Stranded core is fixed by water-swellable yarns. Outer jacket is made of HDPE. 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 1<sup>st</sup> layer: 1-6 Loose tubes 2<sup>nd</sup> layer: 1-12 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	PE	192	16	x 12	G.657.A1	1600N	Ø 8.4mm	BATCH	2022	= 00001 m =
					1						
	1	2	3	4	5	6	7	8	9	10	11
<ol> <li>Cable name</li> <li>Jacket type</li> <li>Fiber count</li> <li>Number of loose tubes</li> </ol>					7 8 9 10	Installation Cable diam Batch num Year of pro	eter ber duction				
<ol> <li>Fibers per loose tube</li> <li>Fiber type</li> </ol>					11	Meter marl	king				

Design details		
Fiber count		192
Number of loose tubes		16
Fibers per loose tube		12
Number of PBT fillers		2
Cable diameter ±0.2	mm	8.4
Cable weight	kg/km	40.9

Other designs upon request

Optical fiber					
Fiber type	«G.657.A1»				
Fiber brand	Corning <sup>®</sup> SMF 28 <sup>®</sup> 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

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)		

Blowing performance Tube outer/inner diameter, mm

16/12

Installation distance, m 2000

Cable parameters					
Parameter	Nom	inal value	Evaluation criterion		
Tensile strength (IEC 60794-1-21 method E1)	Long term calc. OF strain ≤ 0.20 % 0.55 kN	Short term calc. OF strain ≤ 0.60 % 1.6 kN			
Crush (IEC 60794-1-21 method E3)	0.1 kN/cm		- Δα* ≤ 0.05 dB		
Repeated bending (IEC 60794-1-21 method E6)					
Torsion (IEC 60794-1-21 method E7)	- 10 cycles - torsion angle ±360	0° length 4 m			
lmpact (IEC 60794-1-21 method E4)	Impact energy 5 J				
Water penetration (IEC 60794-1-22 method F5C)	Sample length: 3 m Testing time: 24 hours		No water at the cable end		
Temperature cycling** (IEC 60794-1-22 method F1) - temperature range from -20°C to 70°C - 2 cycles - cycle period ≥16 hours		∆α* ≤ 0.10 dB/km			
Compound flow (IEC 60794-1-21 method E14)	at 70°C		No dripped compound		
* - attenuation increasing at standard wavelengths ** - other temperature range upon request					

## Safety standards compliance

RoHS: 2011/65/EU; 2015/863/EU REACH: 1907/2006/EU "Restriction on the use of certain Hazardous Substances" "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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