

Incab Europe GmbH

Otto-Suhr-Allee 27 10585 Berlin Germany

info@incabeurope.com IncabEurope.com

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Product Datasheet

Fiber Optic Cable: A-DQ2Y Blowing MT 12 PE 144 (12x12) G.657.A1 2800N Ø8.4mm (ANSI)

Order informatio	n					
	Design	Part number				
Blowing MT 12	2 PE 144 (12x12) G.657.A1 280	561980				
Product Pros						
CAR CAR	BLOWING DISTANCE = 1850 m	Ø≥12mm Øor€	\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 2800N operation 900 N		
•	design to microducts n into indoor/outdoor cable co	onduits and trays				
Water-swellable yarns Gel-filled loose tube with optical fibers						

Central strength member FRP

Outer jacket

Ripcord

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 HDPE. 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	PE	144	12	х	12	G.657.A1	2800N	Ø 8.4mm	BATCH	2023	= 00001 m =
				1		Τ		1	1	1	1	
	1	2	3	4		5	6	7	8	9	10	11
 Cable name Jacket type Fiber count Number of loose tubes Fibers per loose tube Fiber type 					9	7 8 9 10 11	Installation Cable diame Batch numb Year of proc Meter mark	eter ber duction				

Design details		
Fiber count		144
Number of loose tubes		12
Fibers per loose tube		12
Central strength member diameter	mm	3.0/4.4 (PE coated)
Cable diameter ±0.2	mm	8.4
Cable weight	kg/km	51.5

Other designs upon request

Operating parameters			
Operating temperature ($\Delta \alpha \le 0.05 \text{ dB/km}$)	-30°C+70°C		
Operating temperature ($\Delta \alpha \le 0.10 \text{ dB/km}$)	-40°C+70°C		
Installation temperature	-30°C+50°C		
Transportation and storage temperature	-60°C+70°C		
Minimum bending radius	15 x cable diameter		
Design life	25 years (per fiber supplier)		

«G.657.A1»		
Corning [®] SMF 28 [®] ULTRA		
G.657.A1		
Dimensional Specifications		
0.5 μm		
125 ±0.7 μm		
0.7 %		
242 ±5 μm		
Transmission Specifications		
0.32 / 0.35		
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

Blowing performance	
Tube outer/inner diameter, mm	Installation distance, m
16/12	1850

Cable parameters				
Parameter	Nom	inal value	Evaluation criterion	
Tensile strength (IEC 60794-1-21 method E1)	Long termShort termcalc. OF strain ≤ 0.20 %calc. OF strain ≤ 0.60 %0.9 kN2.8 kN			
Crush (IEC 60794-1-21 method E3) 0.1 kN/cm				
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending r	adius ±90°	- Δα* ≤ 0.10 dB - no damage	
Torsion (IEC 60794-1-21 method E7)	- 10 cycles - torsion angle ±360)° length 4 m		
Impact (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 ho		No water at the cable end	
Temperature cycling** (IEC 60794-1-22 method F1)		e from -30°C to 70°C e from -40°C to 70°C ours	Δα* ≤ 0.05 dB/km Δα* ≤ 0.10 dB/km	
Compound flow (IEC 60794-1-21 method E14) at 70°C		No dripped compound		
* - attenuation increasing at st	andard 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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