

Incab Europe GmbH

Otto-Suhr-Allee 27 10585 Berlin Germany

info@incabeurope.com IncabEurope.com

6.2.2023

Product Datasheet

Fiber Optic Cable: A-DQ4Y Blowing MT 12 PA G.657.A1 1000N Ø5.1mm (ANSI)

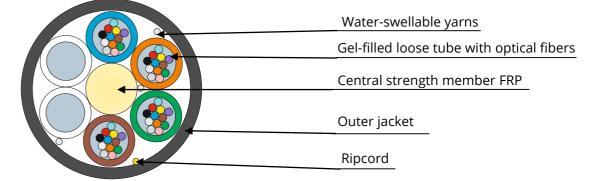
Order information	
Design	Part number
Blowing MT 12 PA 12 (1x12) G.657.A1 1000N Ø 5.1mm (ANSI)	561170
Blowing MT 12 PA 24 (2x12) G.657.A1 1000N Ø 5.1mm (ANSI)	561172
Blowing MT 12 PA 36 (3x12) G.657.A1 1000N Ø 5.1mm (ANSI)	561173
Blowing MT 12 PA 48 (4x12) G.657.A1 1000N Ø 5.1mm (ANSI)	561174
Blowing MT 12 PA 72 (6x12) G.657.A1 1000N Ø 5.1mm (ANSI)	561175

Product Pros



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 and PBT fillers (natural color) (where applicable). 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

1	2	3	4	5	6	7	8	9	10	11	12	
					\bigcirc							
					\bigcirc							
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua	
Other colors upon request												

Cable marking example

Marking is made on each meter of cable

1	1									
1	 2	 3	4	 5	 6	 7	 8	 9	 10	 11
	-	5	-				U	5	10	
				8 9 10 11	Cable diaı Batch nur Year of pr	meter nber roduction				
					12	24	36	48	}	72
					1	2	3	4		6
							12			
					5	4	3	2		-
mm							5.1			
kg/kr	n						17.3			
-45°C+70°C										
-30°C+50°C										
emperati	ure									
15 x cable diameter										
						25 years	(per fiber	supplie	r)	
							G.657.A1			
	D	ime	nsion	al Spe	cificatior	าร				
125 ±0.7 μm										
0.7 %										
							42 ±5 µm			
N.I.	Tr	ansı	missio	on Spe	cificatio	ns				
						-				
)				0.327 0.35					
	kg/kr	kg/km emperature D D Tr mr)*:	kg/km emperature Dime Dime Transi m)*:	kg/km emperature Dimension Transmissio :m)*: ** / Max.)	9 10 11 mm kg/km emperature Dimensional Spe Transmission Spe cm)*:	8 Cable dia 9 Batch nur 10 Year of pr 11 Meter ma 12 1 1 5 mm kg/km emperature Dimensional Specification Transmission Specificatio sm)*: ** / Max.)	 Cable diameter Batch number Vear of production Meter marking 	8 Cable diameter 9 Batch number 10 Year of production 11 Meter marking 12 24 36 1 2 3 12 5 4 3 mm 5.1 12. 5 kg/km 17.3 17.3 emperature -45°C+70° -45°C+70° emperature -60°C+70° -25 years (per fiber emperature -60°C+70° -25 years (per fiber emperature -60°C+70° -25 years (per fiber -25 years (per fiber -25 years (per fiber -25 years (per fiber -25 ±0.7 µm -25 ±0.7	8 Cable diameter 9 Batch number 10 Year of production 11 Meter marking 12 24 36 48 1 2 3 4 12 5 4 3 2 mm 5.1 8 4 17.3 emperature -60°C+70°C -30°C+50°C -30°C+70°C emperature -60°C+70°C 15 x cable diameter 25 years (per fiber supplie) 25 years (per fiber supplie) -25 years (per fiber supplie) -25 years (per fiber supplie) 0.5 µm 125 ±0.7 µm -0.5 µm -125 ±0.7 µm 0.7 % -242 ±5 µm -242 ±5 µm -242 ±5 µm Transmission Specifications -0.32 / 0.35	8 Cable diameter 9 Batch number 11 Vear of production 11 Meter marking 12 24 36 48 1 2 3 4 12 3 4 12 12 5 4 3 2 mm 5.1 4 3 2 kg/km 17.3

1550 nm wavelength (Typical** / Max.)

* 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
12/8	900

0.19/0.21

Cable parameters						
Parameter	Nominal val	ue	Evaluation criterion			
Tensile strength (IEC 60794-1-21 method E1)	Long termShort termcalc. OF strain ≤ 0.20 %calc. OF strain ≤ 0.60 %0.3 kN1.0 kN		_			
Crush (IEC 60794-1-21 method E3)	0.1 kN/cm					
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending radius =	:90°	- Δα* ≤ 0.05 dB - no damage			
Torsion	- 10 cycles					
(IEC 60794-1-21 method E7)	- torsion angle ±360° lengt	h 4 m				
lmpact (IEC 60794-1-21 method E4)	Impact energy 5 J					
Water penetration	Sample length: 3 m		No water at the cable end			
(IEC 60794-1-22 method F5C)	Testing time: 24 hours					
Temperature cycling** (IEC 60794-1-22 method F1)	 temperature range from 2 cycles cycle period ≥16 hours 	-45°C to 70°C	Δα* ≤ 0.05 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.

This document is intended as a guide only. Whilst the information it contains is believed to be correct, Incab Europe can take no responsibility for actions taken based on the information contained in this document. Incab Europe reserves the right to make changes to this document without notice. All sales of product are subject to Incab Europe's terms and conditions of sale only, which can be found on Incab Europe's website www.incabeurope.com. This document is protected by copyright (c) of Incab Europe. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Incab Europe will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers.