

2.3.2023

Incab Europe GmbH

Otto-Suhr-Allee 27 10585 Berlin Germany

info@incabeurope.com IncabEurope.com

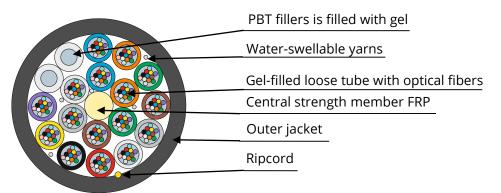
Product Datasheet

Fiber Optic Cable: A-DQ4Y Blowing MT 12 PA 192 (16x12) G.657.A1 1100N Ø6.7mm (ANSI)

Order information	า							
	Design	Part number						
Blowing MT 12	PA 192 (16x12) G.657.A1 110	562001						
Product Pros								
SA A SA	BLOWING DISTANCE = 1300 m	$\emptyset \ge 8^{mm}$ $\emptyset \ge 8^{mm}$						
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 1100N operation 400N				

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 two layers of gel-filled loose tubes with optical fibers and PBT fillers (natural color). Stranded core is fixed by water-swellable yarns. Outer jacket is made of 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

Optical fibers: 1-12



Other colors upon request

Cable marking example

Marking is made on each meter of cable

Fi	ber optic cable	= INCAB EUROPE =	Blowing MT 12	PA	192	16	Х	12	G.657.A1	1100N	Ø 6.7mm	BATCH	2023	= 00001 m =
											- 1			1
			1	2	3	4		5	6	7	8	9	10	11
1	Cable name						7	7	Installation t					
2	Jacket type						3	8	Cable diame	ter				
3	Fiber count						9	9	Batch numb	er				
4	Number of lo	ose tubes					1	0	Year of prod	uction				
5	Fibers per lo	se tube					1	1	Meter marki	ng				
6	Fiber type									-				

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	6.7
Cable weight	kg/km	27.2

Other designs upon request

Optical fiber			
Fiber type	«G.657.A1»		
Fiber brand	Corning® SMF 28®ULTRA 200		
ITU-T Recommendation	G.657.A1		
Dimei	nsional Specifications		
Core-Clad Concentricity	0.5 μm		
Cladding Diameter	125 ±0.7 μm		
Cladding Non-Circularity	0.7 %		
Coating Diameter	200 ±5 μm		
Transı	mission 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

Blowing performance					
Tube outer/inner diameter, mm	Installation distance, m				
12/8	700				
14/10	1350				

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)

Cable parameters					
Parameter	Nom	ninal value	Evaluation criterion		
Tensile strength (IEC 60794-1-21 method E1)	Long termShort termcalc. OF strain ≤ 0.20 %calc. OF strain ≤ 0.60 %0.4 kN1.1 kN		- Δα* ≤ 0.10 dB after test - no damage		
Crush (IEC 60794-1-21 method E3)	() ()5 kN/cm				
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending	radius ±90°			
Torsion	- 10 cycles	- Δ α* ≤ 0.10 dB			
(IEC 60794-1-21 method E7)	- torsion angle ±36	- 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 60794-1-21 method F1) - temperature rang - 2 cycles - cycle period ≥16 h		e from -20°C to 70°C nours	Δα* ≤ 0.10 dB/km		
Compound flow (IEC 60794-1-21 method E14) at 70°C			No dripped compound		

^{* -} 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.

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.