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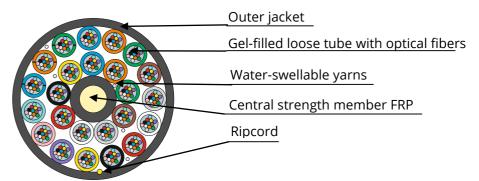
Product Datasheet

Fiber Optic Cable: A-DQ4Y Blowing MT 12 PA 288 (24x12) G.657.A1 1900N Ø9.0mm (ANSI)

Order informatio	n					
	Design		Part number			
Blowing MT 12	2 PA 288 (24x12) G.657.A1 190	561985				
Product Pros						
LOUIS OF STATE OF STA	BLOWING DISTANCE = 1650 m	Ø≥14 _{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 1900N operation 650 N		

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. Stranded core is fixed by water-swellable yarns. Outer jacket is made of polyamide 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: 1-9 Loose tubes 2nd layer: 1-15

Optical fibers: 1-12



Other colors upon request

Cable marking example

Marking is made on each meter of cable

Fibe	er optic cable	= INCAB EUROPE =	Blowing MT 12	PA	288	24	Х	12	G.657.A1	1900N	Ø9.0mm	BATCH	2023	= 00001 m =
								-		1				1
			1	2	3	4		5	6	7	8	9	10	11
1	Cable name							7	Installation	tension				
2	Jacket type							8	Cable diame	eter				
3	Fiber count							9	Batch numb	er				
4	Number of lo	ose tubes						10	Year of prod	duction				
5	Fibers per loc	se tube						11	Meter mark	ing				
6	Fiber type													

Design details		
Fiber count		288
Number of loose tubes		24
Fibers per loose tube		12
Number of PBT fillers		- -
Cable diameter ±0.2	mm	9.0
Cable weight	kg/km	47.2

Other designs upon request

Optical fiber			
Fiber type	«G.657.A1»		
Fiber brand	Corning® SMF 28®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 (Δα ≤ 0.05 dB/km)	-40°C+70°C
Operating temperature (Δα ≤ 0.10 dB/km)	-45°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)

Blowing performance						
Tube outer/inner diameter, mm	Installation distance, m					
18/14	1650					

Cable parameters					
Parameter	Nom	ninal value	Evaluation criterion		
Tensile strength (IEC 60794-1-21 method E1)	$ \begin{array}{lll} \text{Long term} & \text{Short term} \\ \text{calc. OF strain} \leq 0.20 \% & \text{calc. OF strain} \leq 0.60 \% \\ \textbf{0.65 kN} & \textbf{1.9 kN} \end{array} $				
Crush (IEC 60794-1-21 method E3)	0.1 kN/cm		- Δα* ≤ 0.10 dB - no damage		
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending radius ±90°				
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)		ge from -40°C to 70°C ge from -45°C to 70°C nours	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 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.

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