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# Product Datasheet

Fiber Optic Cable: A-DQ4Y Blowing MT 24 PA 144 (6x24) G.657.A1 1000N Ø5.5mm (DIN VDE)

Order information	n				
	Design	Part number			
Blowing MT 24 P	PA 144 (6x24) G.657.A1 1000	0124-100805-28-FC00090			
Product Pros					
CI CS	BLOWING DISTANCE = 1500 m	$ \begin{array}{c}                                     $			
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 1000N operation 300N	
Application and d <ul> <li>Blowing into</li> <li>Installation i</li> </ul>	· ·	nduits 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 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 DIN VDE 0888-100-1 2 3 4 5 6 7 8 9 10 11 1 12 Red Green Blue Yellow White Slate Brown Violet Aqua Black Orange Rose 15 16 17 18 19 20 21 22 23 24 13 14 Yellow White Red Green Blue Slate Brown Violet Aqua Transparent Orange Rose

1 ring

## Other colors upon request

## Cable marking example

Marking is made on each meter of cable

Fiber optic cable = INCAB EUROPE =	Blowing MT 24	PA	144	6	x	24 G.6	57.A1	1000N	Ø 5.5mm	BATCH	2022	= 00001 m =
							1			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> <li>Fibers per loose tube</li> <li>Fiber type</li> </ol>					7 8 9 10 11	Installat Cable d Batch n Year of Meter n	iamete umbe produ	er r ction				

Design details		
Fiber count		144
Number of loose tubes		6
Fibers per loose tube		24
Cable diameter ±0.2	mm	5.5
Cable weight	kg/km	20.0

Other designs upon request

Optical fiber				
Fiber type	«G.657.A1»			
Product name	Corning <sup>®</sup> SMF 28 <sup>®</sup> ULTRA 200			
ITU-T Recommendation	G.657.A1			
Dimensiona	al Specifications			
Core-Clad Concentricity	0.5 µm			
Cladding Diameter	125 ±0.7 μm			
Cladding Non-Circularity	0.7 %			
Coating Diameter	200 ±5 μm			
Transmissio	n 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			

\* 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 <u>www.incabeurope.com</u>

Operating parameters			
Operating temperature	-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)		

#### Blowing performance

Tube outer/inner diameter, mm 12/8 Installation distance, m 1600

Cable parameters			
Parameter	Nom	inal value	Evaluation criterion
Tensile strength (IEC 60794-1-21 method E1)	$\sim$ calc. UF strain $\leq 0.20\%$ calc. UF st		- Δα* ≤ 0.10 dB after test - no damage
Crush (IEC 60794-1-21 method E3)			- Δα* ≤ 0.10 dB - no damage
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending i	radius ±90°	_
Torsion- 10 cycles(IEC 60794-1-21 method E7)- torsion angle ±360° length 4 m			- Δ $\alpha^* \le 0.05 \text{ dB}$ - no damage
Impact (IEC 60794-1-21 method E4)	· Impact energy 21		
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)	- temperature rang - 2 cycles - cycle period ≥16 h	e from -40°C to 70°C ours	Δα* ≤ 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

### 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.

## 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"

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