



Product Datasheet

Fiber Optic Cable: Blowing MT 12

A-DQ4Y G.652D 40N Ø 3.6mm

Order information					
Design	Part number				
A-DQ4Y 12 (1x12) G.652D 40N Ø 3.6mm	0124-78179-18-FC00090				
A-DQ4Y 24 (2x12) G.652D 40N Ø 3.6mm	0124-78180-18-FC00090				
A-DQ4Y 36 (3x12) G.652D 40N Ø 3.6mm	0124-78181-18-FC00090				
A-DQ4Y 48 (4x12) G.652D 40N Ø 3.6mm	0124-78147-18-FC00090				

Product Pros



BLOWING DISTANCE Nx100 = 2000 m







Cables are tested according to IEC 60794-1-21:2015

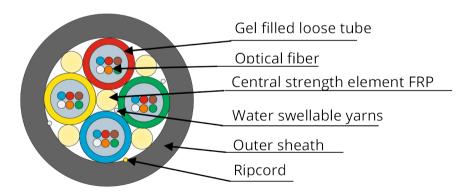
Blowing track: 2000 m Performance confirmed Tube inner diameter suitable for blowing

All-dielectric design

Tension: installation 100N operation 40N

Application and design

For blowing in duct or micro duct.



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



Cable marking example

Marking is made on each meter of cable

Fiber optic cable = EMCAB =	A-DQ4Y	48	4 x	12	G652.D+G.657.A1	40N	Ø 3.6mm	ВАТСН	2020	= 00001 m =
	1	2	3	4	5	6	7	8	9	10
 Cable type Fiber count Number of loose tubes Fibers per loose tube Fiber type 					6 7 8 9 10	Operation te Cable diamer Batch number Year of produ Meter markin	ter er uction			

Design details					
Fiber count		12	24	36	48
Number of loose tubes		1	2	3	4
Fibers per loose tube			1	2	
Number of PBT fillers		3	2	1	-
Cable diameter ±0.2	mm		3	.6	
Cable weight	kg/km		10	0.0	

Other designs upon request

Operating parameters		
Operation temperature	-30°C+70°C	
Installation temperature	-30°C+50°C	
Transportation and storage temperature	-60°C+70°C	
Minimum bending radius	15 x cable diameter	
Life time	25 years (per fiber supplier)	

Optical fiber				
Fiber brand	Corning SMF 28 [®] ULTRA 200			
ITU-T Recommendation	G.652D + G.657.A1			
Dimensional Specifications				
Core-Clad Concentricity	0.5 μm			
Cladding Diameter	125 ±0.7 μm			
Cladding Non-Circularity	0.7 %			
Coating Diameter	200 ±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			

^{*} Typical attenuation is the real level of optical attenuation of at least 90% fibers after cabling Additional information about optical fibers on www.ma-fia.cz

Blowing performance					
Tube outer/inner diameter, mm	Installation distance, m				
8/5	1000				
10/6	1300				

Cable parameters		
Parameter	Nominal value	Evaluation criterion
Tensile strength (IEC 60794-1-21 method E1)	operation installation (fiber strain \leq 0.2%) (fiber strain \leq 0.6%) 40 N 100 N	
Crush (IEC 60794-1-21 method E3)	0.05 kN/cm	
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending radius ±90°	− - Δα* ≤ 0.05 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 2 J	
Water penetration (IEC 60794-1-22 method F5C)	Sample length: 3 m Testing time: 24 hours	No water at the cable end
Temperature cycling** (IEC 60794-1-22 method F1)	temperature range from -30°C to 70°C2 cyclescycle period ≥16 hours	∆α* ≤ 0.05 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"

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.

^{** -} other temperature range upon request