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Product DatasheetFiber Optic Cable: Blowing MT 12

A-DQ4Y G.652D 250N Ø 4.5mm

Order information	
Design	Part number
A-DQ4Y 12 (1x12) G.652D 250N Ø 4.5mm	0124-83220-20-FC00090
A-DQ4Y 24 (2x12) G.652D 250N Ø 4.5mm	0124-83227-20-FC00090
A-DQ4Y 36 (3x12) G.652D 250N Ø 4.5mm	0124-83230-20-FC00090
A-DQ4Y 48 (4x12) G.652D 250N Ø 4.5mm	0124-83231-20-FC00090
A-DQ4Y 72 (6x12) G.652D 250N Ø 4.5mm	0124-83233-20-FC00090

Product Pros











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

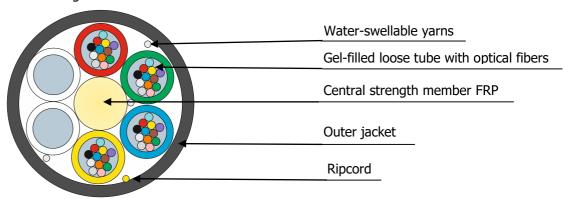
Blowing track: 2000 m Performance confirmed Tube inner diameter suitable for blowing

All-dielectric design

Tension: installation 750N operation 250 N

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

























Other colors upon request

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	250N	Ø 4.5m	m BATCH	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 ter Cable diamet Batch numbe Year of produ Meter markin	er r uction			
Design details											
Fiber count						1	2	24	36	48	72
Number of loose tubes							1	2	3	4	6
Fibers per loose tube									12		
Number of PBT fillers						į	5	4	3	2	-
Cable diameter ±0.2		mr	n						4.5		
Cable weight		kg	/km						13.6		
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				
*T : 1 !!					

^{*} 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
10/6	950
12/8	1700

Cable parameters					
Parameter	Nominal v	/alue	Evaluation criterion		
Tensile strength (IEC 60794-1-21 method E1)	operation (fiber strain ≤ 0.2%) (250 N	installation fiber strain ≤ 0.6%) 750 N	- $\Delta \alpha^*$ ≤ 0.05 dB after test - no damage		
Crush (IEC 60794-1-21 method E3)	0.04 kN/cm	.04 kN/cm			
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending radius	±90°	- Δa* ≤ 0.05 dB		
Torsion (IEC 60794-1-21 method E7)	- 10 cycles - torsion angle ±360° len	gth 4 m	- 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 hours		No water at the cable end		
Temperature cycling** (IEC 60794-1-22 method F1)	temperature range from2 cyclescycle period ≥16 hours	1 -30°C to 70°C	∆a* ≤ 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"

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