



Product Datasheet

Fiber Optic Cable: Blowing MT 12

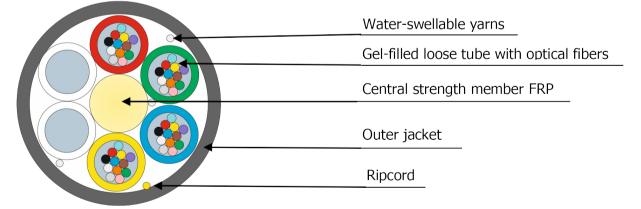
A-DQ4Y G.652D 250N Ø 4.5mm

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				
Control of the second s	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 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 G6	52.D+G.	657.A	1 250N	v Ø 4.5mm	BATCH	2020	= 00001 m =
		 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	Operatio Cable dia Batch nu	n tension ameter Imber production		-	
Design details											
Fiber count							12	24	36	48	72
Number of loose tubes							1	2	3	4	6
Fibers per loose tube									12		
Number of PBT fillers							5	4	3	2	-
Cable diameter ±0.2		mi	m						4.5		
Cable weight		kg	/km			-			13.6		
Other designs upon request											
Operating parameter	s										
Operation temperature								-:	30°C+70°C		
Installation temperature	<u>:</u>					-		-;	30°C+50°C		
Transportation and stora	age tem	perat	ure					-(50°C+70°C		
Minimum bending radius	5					-		15 x	cable diame	ter	
Life time								25 years	; (per fiber su	pplier)	
Optical fiber								a			
Fiber brand								-	SMF 28®ULTI		
ITU-T Recommendation				D:		C	-: C i L'		52D + G.657.	A1	
Care Clad Cancentricity				Dime	nsional	Spe	cificatio	ns	0.5		
Core-Clad Concentricity Cladding Diameter								1	0.5 µm		
Cladding Non-Circularity	,							1	25 ±0.7 μm 0.7 %		
Coating Diameter									200 ±5 μm		
				Trans	missior	Spe	ecificatio		200 ±3 µm		
Attenuation in the cable	(dB/km):				ope					
1310 nm wavelength (T	•		.)					().32* / 0.35		
1550 nm wavelength (T						_).19* / 0.21		
* Typical attenuation is the Additional information about	real level	of op	tical at			least	t 90% fit		•		

Blowing performance	
Tube outer/inner diameter, mm	Installation distance, m
10/6	950
12/8	1700

Cable parameters					
Parameter	Nominal	Evaluation criterion			
Tensile strength (IEC 60794-1-21 method E1)	operation (fiber strain ≤ 0.2%) 250 N	installation (fiber strain ≤ 0.6%) 750 N	- Δ a [*] ≤ 0.05 dB after test - no damage		
Crush (IEC 60794-1-21 method E3)	0.04 kN/cm				
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending radius ±90° - 10 cycles - torsion angle ±360° length 4 m		- Δα* ≤ 0.05 dB - no damage		
Torsion (IEC 60794-1-21 method E7)					
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 fror 2 cycles cycle period ≥16 hours 	$\Delta a^* \leq 0.10 \text{ dB/km}$			
Compound flow (IEC 60794-1-21 method E14)	at 70°C		No dripped compound		

* - attenuation increasing at standard wavelengths

** - other temperature range upon request

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"

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.