

A-DQ(ZN)2Y(SR)2Y 2 - 12 FIBRES

**CONSTRUCTION**

**Fibre**

Colour : 1-12: red, green, blue, yellow, violet, pink, orange, black, grey, brown, white, turquoise  
 Exception of coloured marking they are mentioned in contract of purchase

**Loose buffer tube**

Material : thermoplastic  
 Colour : natural or according to the customer's request - mentioned in contract of purchase



**Strength member** : waterblocking e-glass

**Inner jacket** : PE (HDPE) - black

**Armouring** : corrugated tape PE/FE/PE - longitudinal

**Outer jacket** : PE (HDPE) - black

**Identification marking** : colour white; manufacturer's name, job number, type of cable, length marking à 1 m, accuracy ± 1 % or according to the customer's request - mentioned in contract of purchase

			<b>A-DQ(ZN)2Y(SR)2Y 2 - 12 FIBRES</b> Central Loose Tube Compact		
			Ing. Miroslav Tesar Head of control and research	Ing. Frantisek Cempirek Head of technology	<i>Technological agreement</i>
1	21.1.2004			TDo 050.1/03	Page 1/2
*	13.5.2003 Date				

**FIBRE SPECIFICATION**

Loose Tube	Multimode Fibres									
	Optical Performance						Dimensions			
	Typical / Maximum Attenuation (dB/km)		Minimum Bandwidth (MHz.km)		1Gbps Ethernet Transmission Link Length (m)		Numerical Aperture (um)	Nominal Core Diameter (um)	Nominal Cladding Diameter (um)	Primary Coating Diameter (um)
850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm					
<b>Fibre Type</b>										
Multimode 62,5/125 Premium OM1	2,7 / 3,2	0,6 / 1,1	200	600	275	550	0,275 ± 0,015	62,5± 3	125 ± 2	245 ± 10
Multimode 62,5/125 Gigabit OM1	- / 3,2	- / 1,1	220	600	300	550	0,275 ± 0,015	62,5± 3	125 ± 2	245 ± 10
Multimode 50/125 Compliant OM2	2,4 / 3,0	0,7 / 1,0	500	500	-	-	0,2 ± 0,015	50± 3	125 ± 2	245 ± 10
Multimode 50/125 Standard OM2	2,4 / 3,0	0,7 / 1,0	500	800	550	550	0,2 ± 0,015	50± 3	125 ± 2	245 ± 10
Multimode 50/125 Premium OM2	2,3 / 2,8	0,6 / 0,9	600	1200	650	1200	0,2 ± 0,015	50± 3	125 ± 2	245 ± 10
Multimode 50/125 Gigabit OM2	- / 3,0	- / 1,0	500	500	600	600	0,2 ± 0,015	50± 3	125 ± 2	245 ± 10
Multimode 50/125 10 Gigabit OM3	- / 3,0	-	-	-	300*	-	0,2 ± 0,015	50± 3	125 ± 2	245 ± 10

\*10 Gbps Ethernet

Loose Tube	Singlemode Fibres								
	Optical Performance				Dimensions				
	Typical / Maximum Attenuation (dB/km)		Dispersion Coefficient ps/(nm.km)		PMD (ps/√km)	Cut-Off Wavelength (nm)	Nominal Mode Field Diameter (um)	Nominal Cladding Diameter (um)	Primary Coating Diameter (um)
1310	1550	1310	1550						
<b>Fibre Type</b>									
Singlemode 9/125	0,32 / 0,4	0,21 / 0,3	3,0	18	≤ 0,5	1215 ± 65	9,2± 0,4	125 ± 1	245 ± 10

**ORDER EXAMPLE**



2000 m A-DQ(ZN)2Y(SR)2Y 2E9/125; CDT OPTICS SPECIFICATION TDo 050.1/03

**MECHANICAL AND ENVIRONMENTAL PROPERTIES**

Tensile strength	IEC 60794 - 1-2/E1A	1500 N
Crush test	IEC 60794 - 1-2/E3	4000 N/10cm
Impact test	IEC 60794 - 1-2/E4	3000 - impacts (1N-m)
Minimum Bend Radius Long Term	IEC 60794 - 1-2/E11B	No load 10x cable diameter
Minimum Bend Radius Short Term	IEC 60794 - 1-2/E11A	Load 20x cable diameter
Informative weight		144 kg/km
Temperature range:		
Temperature installation		-5 °C to + 40 °C
Temperature operation		-30 °C to + 60 °C
Temperature storage		-40 °C to + 70 °C

**MAKE UP**

Number of fibre	Inf. diam. of tube (mm)	Inf. th. of inner jacket (mm)	Min. th. of outer jacket (mm)	Nom. external diameter (mm)	Drum (cm)	Standard length (m)
002	2,8	1,2	1,2	11,0 ± 0,5	100	2000
004	2,8	1,2	1,2	11,0 ± 0,5	100	2000
006	2,8	1,2	1,2	11,0 ± 0,5	100	2000
008	2,8	1,2	1,2	11,0 ± 0,5	100	2000
010	2,8	1,2	1,2	11,0 ± 0,5	100	2000
012	2,8	1,2	1,2	11,0 ± 0,5	100	2000

			<b>A-DQ(ZN)2Y(SR)2Y 2 - 12 FIBRES</b> Central Loose Tube Compact	
1	21.1.2004		Ing. Miroslav Tesar Head of control and research	Ing. Frantisek Cempirek Head of technology
*	13.5.2003			<b>TDo 050.1/03</b>
	Date			Page 2/2