

Außenkabel A-DQ Outdoor cable A-DQ

A-DQ (ZN) B2Y XXG50

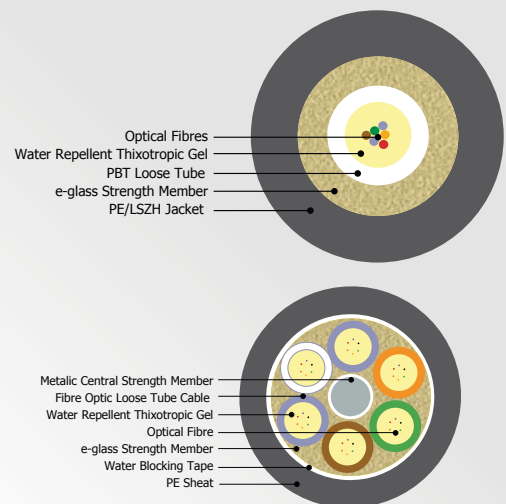


Lightwin®
European Fibre Optic Solutions

Beschreibung / Description

- Bündeladerkabel mit Gelfüllung
- Geeignet für direkte Erdverlegung
- inkl. nichtmetallischem Nagetierschutz, UV-stabil
- PE Mantel
- Mögliche Faseranzahlen:
Einröhrchenkabel (Single Loose Tube) für: 4 (04), 8 (08), 12 (12)
Mehrröhrchenkabel (Multi Loose Tube) für: 24 (24), 48 (48), 96 (96), 144 (144)

- Suitable for direct burial and indoor installation
- Rodent resistant (non-metallic), water blocking
- Halogen free, non metallic
- UV-resistant
- LSZH
- Possible number of fibres:
Single Loose Tube for: 4 (04), 8 (08), 12 (12)
Multi Loose Tube for: 24 (24), 48 (48), 96 (96), 144 (144)



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MM G 50/125µm

Artikelnummer / Part number

A-DQ (ZN) B2Y XXG50



MM G 50/125µm	MM G 50/125µm OM3	MM G 62,5/125µm	SM E 09/125µm
Artikelnummer / Part number	Artikelnummer / Part number	Artikelnummer / Part number	Artikelnummer / Part number
A-DQ (ZN) B2Y XXG50	A-DQ (ZN) B2Y XXG50 OM3	A-DQ (ZN) B2Y XXG62	A-DQ (ZN) B2Y XXE09

Graded-Index Multimode Optical Fiber (50 / 125 µm)

Highest bandwidth available in the market

Product Type: 50 / 125 / 242 µm Multimode Fiber (OM1 / OM2)

Coating Type: Dual Layer Primary Coating (DLPC9)

Characteristics	Conditions	Specified Values	Units		
Optical Specifications (Uncabled fiber)					
Attenuation Coefficient	850 nm	≤ 2.1	≤ 2.2	≤ 2.3	dB/km
	1300 nm	≤ 0.4	≤ 0.5	≤ 0.6	
Numerical Aperture		0.200 ± 0.015			
Chromatic Dispersion					
Zero Dispersion Wavelength, λ_0		1295 ≤ λ_0 ≤ 1340		nm	
Zero Dispersion Slope, S_0	1295 nm ≤ λ_0 ≤ 1310 nm	≤ 0.105		ps/nm ² .km	
	1310 nm ≤ λ_0 ≤ 1340 nm	≤ 0.000375 (1590 - λ_0)		ps/nm ² .km	
Overfilled Modal Bandwidth ^{1,2}	850 nm	≥ 400 to ≥ 1000		MHz.km	
	1300 nm	≥ 400 to ≥ 1500		MHz.km	
Bending Loss	100 turns, D=75 mm; 850nm / 1300nm	≤ 0.5		dB	
Backscatter Characteristics ³					
Point Discontinuity ⁴	850 nm, 1300 nm	≤ 0.1		dB	
Irregularities over fiber length	850 nm, 1300 nm	≤ 0.1		dB	
Reflections		Not Allowed			
Group Index of Refraction (Typical)	850 nm	1.482			
	1300 nm	1.477			
Geometrical Specifications					
Core Diameter		50 ± 2		µm	
Core Non-Circularity		≤ 5		%	
Core/Cladding Concentricity Error		≤ 1		µm	
Cladding Diameter		125.0 ± 1.0		µm	
Cladding Non-Circularity		≤ 0.7		%	
Coating Diameter		242 ± 5		µm	
Coating Non-Circularity		≤ 5		%	
Coating/Cladding Concentricity Error		≤ 6		µm	
Length	Standard lengths up to Other lengths available on request	17.6		km	
Mechanical Specifications					
Proof Test	Off line	> 0.7 (100)		GPa (kpsi)	
Dynamic Tensile Strength (median value)	0.5 meter gauge length unaged and aged ⁵	> 3.8 (550)		GPa (kpsi)	
Fatigue Parameter (Typical)	Dynamic fatigue, unaged and aged ⁵	$n_f > 25$			
Coating Strip Force	Average strip force, unaged and aged ⁶	1 to 3		N	
	Peak strip force, unaged and aged ⁶	1.3 to 8.9		N	
Environmental Specifications					
Temperature Cycling	850 nm, 1300 nm; -60°C to +85°C	≤ 0.1		dB/km	
Temperature-Humidity Cycling	850 nm, 1300 nm; -10°C to +85°C, 4-98% RH	≤ 0.1		dB/km	
Water Immersion	850 nm, 1300 nm; 23°C, 30 days	≤ 0.1		dB/km	
Dry Heat	850 nm, 1300 nm; 85°C, 30 days	≤ 0.1		dB/km	
Damp Heat	850 nm, 1300 nm; 85°C; 85% RH, 30 days	≤ 0.1		dB/km	

1). The modal bandwidth is linearly normalized to 1 km, according to IEC 60793-2-10.

2). Dual window bandwidth specifications are selectable; possibilities are:

850 nm	1300 nm
400	2000 MHz.km
600	1200 MHz.km
800	800 MHz.km

3). OTDR measurement with 0.5 µs pulse width.

4). Mean of bi-directional measurement.

5). Aging at 85°C, 85% RH, 30 days

6). Aging: • 23°C, 0°C and 45°C
• 30 days at 85°C and 85% RH
• 14 days water immersion at 23°C