

LAN-OPTIC

GROFO Fiber 2xOS2

GROFO Fiber 4xOS2

GROFO Fiber 12xOS2



Anvendelse

GROFO Fiber anvendes til den sidste strækning ind til de enkelte huse/virksomheder. Den enkelte fiber er G657A1 som tåler at blive bøjet - uden at det går ud over performance på fiberen.

Kappen på fiberen er PE og kan derfor tåle at ligge udenfor

Specifikation

Materiale: HDPE

Farve: Sort

Max diameter kabel (D): 1.15~1.65 mm

Antal fiber: 2 - 4- 12

Temperatur: -20~+50°C

Trækstyrke: 10N

Bøjningsradius ved installation: 30xD

Oplægning: 4000 mtr

Varenr.: 232702 + 232704 + 232712

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Cable Design

Dielectric-Single Sheath- G.657A1Fiber



- **UV Fiber:** 2+2 filling fiber/12 G.657A1 fibers.
- **Resin:** to combine fibers together
- **Outer Sheath:** BLACK/ORANG(RAL2009) HDPE .

Cable Specification

Cable Cores		2-4	12
No. of Fibers		2-4	12
Max. Cable Diameter	mm	1.15	1.65
Nominal Cable Weight	Kg/km	1.0	2.2

Cable Application

Temperature Range		Minimum Bend Radius	
Transportation & Storage	-20~+50°C	Load	60×D
Operation	-20~+50°C	Unload	30×D

Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile	IEC 60794-1-2-E1	10N, 10min	$\Delta\alpha\leq 0.1\text{dB}$, f no damage
Crush	IEC 60794-1-2-E3	50N, 1min, 3times	$\Delta\alpha\leq 0.1\text{dB}$, no damage
Repeated Bending	IEC 60794-1-2-E6	R=60D, 5N, 30cycles	$\Delta\alpha\leq 0.1\text{dB}$, no damage
Temperature Cycling	IEC 60794-1-2-F1	-20~+50°C, 2cyces, 8h	$\Delta\alpha\leq 0.15\text{dB/km}$, no damage

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Fiber & Tube Color

Color Identification of Fiber

Number	1	2	3	4	5	6	7	8	9	10	11	12
Color	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Aqua	Black	Orange	Pink

Cabled Fiber Performance (G.657A1)

Characteristics		Acceptance Value
Attenuation	@1310nm	≤ 0.35 dB/km
	@1383nm	≤ 0.34 dB/km
	@1550nm	≤ 0.22 dB/km
	@1625nm	≤ 0.23 dB/km
Mode Field Diameter	@1310nm	8.6 ± 0.4 μ m
Dispersion	@1300 +30/-15nm	≤ 3.5 ps/(nm·km)
	@1550nm	≤ 18 ps/(nm·km)
	@1625nm	≤ 22 ps/(nm·km)
Zero-Dispersion Wavelength		1300nm ~ 1324nm
Zero-Dispersion Slope		≤ 0.092 ps/(nm ² ·km)
Cable Cutoff Wavelength λ_{cc} (nm)		≤ 1260 nm
Macrobend loss	30mm radius, 10 turn, @1550	≤ 0.25 dB
	30mm radius, 10 turn, @1625	≤ 1.0 dB
	20mm radius, 1 turn, @1550	≤ 0.75 dB
	20mm radius, 1 turn, @1625	≤ 1.5 dB
Cladding Diameter		125 ± 0.7 μ m
Cladding Non-circularity		$\leq 0.7\%$
Core/Cladding Concentricity Error		≤ 0.6 μ m
Proof Test		≥ 0.69 GPa (100kpsi)
Dynamic Fatigue		≥ 20