

tBG2 - FO splice module 6x LC duplex MM 3U/7HP with pigtails 50/125 μ



tBG II - tde Subrack

The newest generation of tde - Subracks is developed especially for the application by loose tube cables with high fiber counts. Up to 288 fibers can be distributed to 12 splice modules. Alternative up to 12 tML[®] modules. By the application deep-adjustable 84HP Subrack with 7HP-grid is a simple module mounting possible. The modules are fixed by screws. Cable over lengths are accommodated certainly in a cable tray. The cable tray is removable. The cable entry is on the left and right back side. On the front side is a patch cord management panel with 5 rings integrated.

tBG II - tde subrack 19"/4U is for the equip of up to 12 x tBG II - splice modules 3U/7HP with high component density.

The tBG II – FO splice module 3U/7HP is intended for the installation in tBG II - subracks (for 12 x modules).

Features:

- Available for all standard FO connectors: E2000, FC/PC, LC, SC and ST



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- Integrated loose tube strain relief
- Module mounting with screws

Technical Data

Pre-mounted	6 LC duplex adapters 12 LC Fiber pigtails 50/125μ OM2 12 Crimp Splice protectors 1 Splice cassettes 1 Splice holder 1 Splice cover
Alternative pre-mounted	TBG2-MO6-xxLCD50S
xx	(01 - 06) quantity of adapters

Type	Front panel for 6 x LC Duplex
Color	Anodized E6 EV1
Inscription	1 - 12 Screen printing by label strips
Material	Alu- AIMG3 G22
Dimensions	3U/7HP

Type	Module slot for rack 3U/84HP
Dimensions	app. 250 x 100 mm

FO Adapters

Type	LC Duplex
Application	Multimode OM2
Design	One-Piece with Flange
Connector style	SC Simplex
Color	Beige
Material	Plastic
Sleeve	Zirkonia Straight Split
Shutter	-
Manufacturer	tde

FO Pigtails Standard

FO Connectors

Connector Type	LC Unibody Simplex
Housing	Plastic, Beige
Ferrule	Zirkonia Straight Split, Spring-loaded Axially
Ferrule Hole	126 μ
Mating Cycles	1.000

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Operating Temperature	-40°C up to +75°C
Strain Relief to	100 N
Manufacturer	tde

Optical performance

Fiber	Type	Wavelength	Insertion loss typ.	Insertion loss max.	Return loss min.
50/125 μ OM2	LC	850 nm	≤ 0.25 dB	0.45 dB	30 dB
62.5/125 μ OM1	LC	850 nm	≤ 0.25 dB	0.45 dB	

FO Cables

Tight Buffer	Low smoke (IEC 61034 and EN 50268) and free of halogens (LSOH)
	Non corrosive after IEC 60754-2 and EN 50267
	Flame resistant after IEC 60332-3C and EN 50266-2-4
	Completely dry design
	Free from metal, no grounding problems and potential differences
	Tight Buffer for simple and direct connector mounting

Characteristics

Fiber Count	1 (Tight Buffer)
Core-Ø	0.9 mm
Coreweight	1 kg/km
Min. Bending radius - Installation	30 mm
Min. Bending radius - Operation	30 mm
Removal	1500 mm
Fire load	0.15 MJ/m
Temperature range - Installation	-5 to +50°C
Temperature range - Operation	-20 to +60°C
Temperature range - Transport / Lagerung	-25 to +70°C

FO Fiber

Type	Corning 50/125 μ OM2 multimode fiber
Manufacturer	Corning

Optical Specifications

Bandwidth	500 at 850 nm / 500 at 1300 nm
Attenuation	At 850 nm max. ≤ 2.5 dB/km At 1300 nm max. ≤ 0.8 dB/km
Numerical Aperture	0.200 ± 0.015

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Dimensional Specifications

Core Diameter	50.0 \pm 3.0 μ m
Cladding Diameter	125.0 \pm 2.0 μ m
Core-Clad Concentricity	\leq 3.0 μ m
Cladding Non-Circularity	< 2.0%
Core Non-Circularity	\leq 5.0%
Coating Diameter	245 \pm 5 μ m
Coating-Cladding Concentricity	< 12 μ m

Environmental Specifications

Environmental Test	Test Condition	Induced Attenuation 850 nm and 1300 nm (dB/km)
Temperature Dependence	-60°C to +85°C	\leq 0.20
Temperature Humidity Cycling	-10°C to +85°C and 4% to 98% RH	\leq 0.20
Operating Temperature Range	-60°C to +85°C	

Mechanical Specifications

Proof Test	The entire fiber length is subjected to a tensile stress \geq 100 kpsi (0.7 GN/m ²).
Length	Fiber lengths available up to 8.8 km/spool.

Performance Characterizations

Refractive Index Difference	2%
Effective Group Index of Refraction	850 nm: 1.490 1300 nm: 1.486
Fatigue Resistance Parameter (nd)	20
Coating Strip Force	Dry: 0.6 lbs (2.7N) Wet: 14 days in 23°C water soak: 0.6 lbs (2.7N)
Chromatic Dispersion	Zero Dispersion Wavelength (λ_0): 1300 nm \leq $\lambda_0 \leq$ 1320 nm Zero Dispersion Slope (S0): \leq 0.101 ps/(nm ² *km)

Product variants & accessories

Art.-No.	Description
TBG2-M06-06LCAD9AS	tBG2 - FO splice module 6x LC APC duplex SM 3U/7HP with pigtails 09/125 μ
TBG2-M06-06LCD50-3S	tBG2 - FO splice module 6x LC duplex MM 3U/7HP with pigtails 50/125 μ OM3
TBG2-M06-06LCD50-4S	tBG2 - FO splice module 6x LC duplex MM 3U/7HP with pigtails 50/125 μ OM4
TBG2-M06-06LCD50S	tBG2 - FO splice module 6x LC duplex MM 3U/7HP with pigtails 50/125 μ
TBG2-M06-06LCD62S	tBG2 - FO splice module 6x LC duplex MM 3U/7HP with pigtails 62,5/125 μ
TBG2-M06-06LCD9S	tBG2 - FO splice module 6x LC duplex SM 3U/7HP with pigtails 09/125 μ