tBG2 - FO splice module 6x LC Quad MM 3U/7HP with pigtails 62,5/125µ OM1

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 quad adapters 24 LC Fiber pigtails 62.5/125µ OM1 24 Crimp Splice protectors 1 Splice cassettes 2 Splice holder 1 Splice cover
Alternative pre-mounted	TBG2-M06-xxLCQ62S
xx	(01 - 06) quantity of adapters

Type	Front panel for 6 x SC Duplex
Color	Anodized E6 EV1
Inscription	1 - 12 Screen printing by label strips
Mateial	Alu- AlMG3 G22
Dimensions	3U/7HP

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

FO Adapters

Type	LC Quad
Application	Multimode
Design	with flange
Footprint	SC Duplex
Color	Beige
Material	Plastic
Sleeve	Zirconia Straight Split
Shutter	--
Manufacturer	tde

FO Pigtails Standard

FO Connectors

Connector Type	LC Unibody Simplex
Housing	Plastic, Beige
Ferrule	Zirkonia Staight 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.
50/125µ OM2	LC	850 nm	≤ 0.25 dB	0.45 dB	30 dB
62.5/125µ 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 (LS0H)
	Non corrosive after IEC 60754-2 and EN 50267
	Flame resistent after IEC 60332-3C and EN 50266-2-4
	Completly 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 62.5/125µ OM1 multimode fiber
Manufacturer	Corning

Optical Specifications

Bandwidth	160/200 at 850 nm / 500 at 1300 nm
Attenuation	At 850 nm max. ≤ 3.0 dB/km At 1300 nm max. ≤ 0.7 dB/km
Numerical Aperture	0.275 ± 0.015

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Dimensional Specifications

Core Diameter	62.5 ± 3.0 µm
Cladding Diameter	125.0 ± 2.0 µm
Core-Clad Concentricity	≤ 3.0 µm
Cladding Non-Circularity	< 2.0%
Core Non-Circularity	≤ 5.0%
Coating Diameter	245 ± 5 µm
Coating-Cladding Concentricity	< 12 µm

Environmental Specifications

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

Mechanical Specifications

Proof Test	The entire fiber length is subjected to a tensile stress ≥ 100 kpsi (0.7 GN/m²).
Length	Fiber lengths available up to 17.6 km/spool.

Performance Characterizations

Refractive Index Difference	2%
Effective Group Index of Refraction	850 nm: 1.496 1300 nm: 1.491
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)
Cromatic Dispersion	Zero Dispersion Wavelength (λ0): 1332 nm ≤λ0 ≤ 1354 nm Zero Dispersion Slope (S0): ≤ 0.097 ps/(nm²*km)

Product variants & accessories

Art.-No.	Description
TBG2-M06-06LCAQ9AS	tBG2 - FO splice module 6x LC APC Quad SM 3U/7HP with pigtails 09/125µ OS2
TBG2-M06-06LCQ50-3S	tBG2 - FO splice module 6x LC Quad MM 3U/7HP with pigtails 50/125µ OM3
TBG2-M06-06LCQ50-4S	tBG2 - FO splice module 6x LC Quad MM 3U/7HP with pigtails 50/125µ OM4
TBG2-M06-06LCQ50S	tBG2 - FO splice module 6x LC Quad MM 3U/7HP with pigtails 50/125µ OM2
TBG2-M06-06LCQ62S	tBG2 - FO splice module 6x LC Quad MM 3U/7HP with pigtails 62,5/125µ OM1
TBG2-M06-06LCQ9S	tBG2 - FO splice module 6x LC Quad SM 3U/7HP with pigtails 09/125µ OS2