

tBG2 - FO splice module 6x E2000 Compact MM 3U/7HP with pigtails 62,5/125 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



tde[®] trans data elektronik GmbH

Headquarter address:

Lingener Str. 2
D-49626 Bippen/Ohrte
Tel.: +49 5435 9511 0
Fax.: +49 5435 9511 32

Sales office address:

Prinz-Friedrich-Karl-Str. 46
D-44135 Dortmund
Tel.: +49 231 914 36 99
Fax.: +49 231 914 31 29

info@tde.de | www.tde.de

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- Integrated loose tube strain relief
- Module mounting with screws

Technical Data

Pre-mounted	6 E2000 compact adapters 12 E2000 Fiber pigtails 62.5/125μ OM1 12 Crimp Splice protectors 1 Splice cassettes 1 Splice holder 1 Splice cover
Alternative pre-mounted	TBG2-M06-xxE2C62S
xx	(01 - 06) quantity of adapters

Type	Front panel for 6 x E2000 Compact
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

Standardisation	acc. to IEC61754-15, DIN EN 186270
Mating cycles	min. 1000
Pull-out force	min. 70 N
Number of connectors (A)	1
Connector type (A)	E2000™ Compact
Protection class (IP) connector (A)	20
Polishing connector (A)	PC
Attenuation grade IL - connector (A)	≤ 0.2 dB, testing method acc. to IEC 61300-3-4
Connector color (A)	beige
Lever- frame-coding connector (A)	color
Frame color connector (A)	orange-orange
Sleeve material	Zirkonia Staight Split
Adapter fastening method	flange snap
Holder for connector / module	Snap-In frame
Fiber type	Multimode (MM)
Dimensions	74.7 / 42 x 14.7 x 13 / 15.4 mm
Material	steel: X10CrNi18-8 (1.4310) / plastic: PBT, fiber-glass reinforced (halogen-free)
Manufacturer	R&M

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FO Pigtails Standard

FO Connectors

Type	E2000
Ferrule	Ceramic
Ferrule Hole	126 μ
Connector colour	Beige
Lever colour	Black
Boot colour	Black
Manufacturer	RDM

Optical performance

Fiber	Type	Wavelength	Insertion loss typ.	Insertion loss max.	Return loss min.
50/125μ OM2	E2000	850 nm	≤ 0.25 dB	0.45 dB	30 dB
62.5/125μ OM1	E2000	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 62.5/125μ OM1 multimode fiber
Manufacturer	Corning

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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

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

Environmental 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/m ²).
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)
Chromatic Dispersion	Zero Dispersion Wavelength (λ ₀): 1332 nm ≤ λ ₀ ≤ 1354 nm Zero Dispersion Slope (S ₀): ≤ 0.097 ps/(nm ² *km)

Product variants & accessories

Art.-No.	Description
TBG2-M06-06E2AC9AS	tBG2 - FO splice module 6x E2000 Compact APC SM 3U/7HP with pigtails 09/125μ
TBG2-M06-06E2C50-3S	tBG2 - FO splice module 6x E2000 Compact MM 3U/7HP with pigtails 50/125μ OM3

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Art.-No.	Description
TBG2-M06-06E2C50-4S	tBG2 - FO splice module 6x E2000 Compact MM 3U/7HP with pigtails 50/125μ OM4
TBG2-M06-06E2C50S	tBG2 - FO splice module 6x E2000 Compact MM 3U/7HP with pigtails 50/125μ
TBG2-M06-06E2C62S	tBG2 - FO splice module 6x E2000 Compact MM 3U/7HP with pigtails 62,5/125μ
TBG2-M06-06E2C9S	tBG2 - FO splice module 6x E2000 Compact SM 3U/7HP with pigtails 9/125μ