

SUHNER® FIBEROPTIC FIBERGATE BACKPLANE CONNECTOR



The worldwide smallest sing

From the FiberGate Backplane connector ...

New technologies like DWDM systems and SDH transmission facilities require new and innovative fiberoptic backplane solutions. In addition, the demand for increased bandwidth capacities prevents the use of common connector systems.

The **FiberGate** connector from SUHNER FIBER-OPTIC has been developed specifically for system suppliers. **FiberGate's** unique design combines four single-fibers in a smallest space with a typical insertion loss of 0.09 dB.

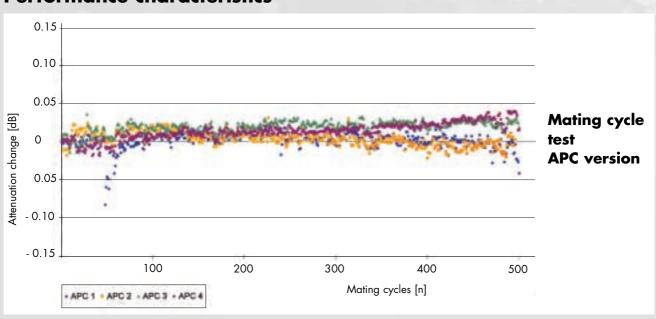


Characteristics

The **FiberGate** connector meets the highest requirements for trouble-free function:

- high durability
- highest precision
- guaranteed transmission safety
- force-free length compensation to ensure a safe connection
- lateral floating compensation
- dust protection on connector and adapter
- assembled with 1 to 4 Ø 1.25 mm ferrules
- snap-on mounting
- full-ceramic ferruled inserts with individual configuration
- floating compensation to facilitate the centering of the system board

Performance characteristics



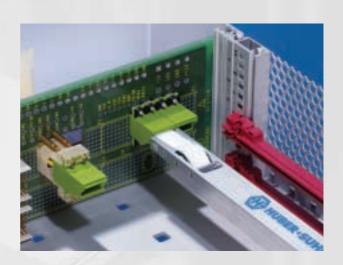
le-fiber backplane connector

... to the overall Backplane solution

The FiberGate does not only offer a thought-out connector design, but also an overall backplane solution which includes all needed accessories from the assembly to the measurement and the cleaning.

Fibre end-face cleaning device

The manually operated cleaning device is a simple, easy-to-use tool for the direct cleaning of FiberGate backplane connectors in installed conditions.



Portable inspection device

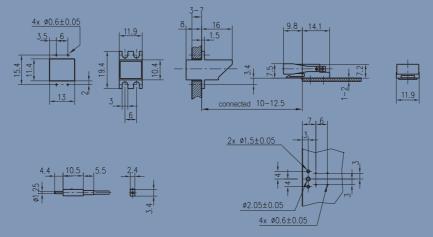
The inspection device can be used to inspect installed backplane and databoard connectors in patch panels, distribution frames, network equipment and test equipment by a bulkhead adapter. The inspection device includes an inspection probe and a display unit. The probe integrates an internal LED coaxial light source and a miniature CCD video camera. The focus control is located at the rear of the probe for easy focus even on densely packed patch panels.

Characteristics

The portable inspection device allows the ferrule control of FiberGate backplane connectors under assembled conditions:

- 0° or 60° probe angle adjustment
- rear-focus control
- Field-rugged
- Bright, high contrast, active matrix LCD display
- Battery or AC power





Specifications

Insertion loss singlemode (E9/125) each-to-each	< 0.4 dB, typical 0.09 dB
Return loss	PC > 50 dB/ APC >85 dB)
Connection system	Push-Pull
Backplane thickness	3 to 7 mm
Databoard thickness	1 to 2 mm
Longitudinal float/lateral float	2.5 mm/0.5 mm
Durability	> 10 years
Strain relief	> 30 N
Dimensions (WxH)	12 mm x 10.4 mm
Cable diameter	0.9/1.7 to 2.0 mm
Connection/disconnection force	typical 15 N for all four connections
Highest packing density	4 pieces on 12 mm
Number of mating cycles	500

Ordering information

Description	Туре
Backplane housing without inserts	FGAT-BP-A001-4
Backplane housing fixation	FGAT-FIX-A001
Databoard housing without inserts	FGAT-BP-A002-4
Databoard housing fixation	FGAT-FIX-A002
Insert (1.25 mm ferrule) PC	FGAT-INS-A001
Insert (1.25 mm ferrule) APC	FGAT-INS-A601
Crimpset 0.9 mm PC	FGAT-CS-A002
Crimpset 0.9 mm APC	FGAT-CS-A003
Crimpset 1.7 mm PC and APC	FGAT-CS-A001
Key for inserts disassembly	FGAT-KEY-A001
Inspection device adapter for backplane connector ¹⁾	FGAT-TIP-A001
Inspection device adapter for databoard connector ¹⁾	FGAT-TIP-A002
Cleaning devices	FGAT-CLN-A001
Cleaning stripes for FGAT-CLN-A001 (Set with 10 pcs.)	FGAT-WPS-A001

1) NOYES video inspection device

SUHNER=Registered Trade Mark

HUBER+SUHNER group is certified according to ISO 9001 and 14001.

Waiver

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