



PRODUCT DESCRIPTION

Hyperlines Field Installable Connector (FIC) is cost-effective, and is ease to install, optical attenuation from 1dB to 20dB, and Fiber Bragg Grating (FBG) for fiber line monitoring system. FIC requires no field polishing or epoxy as they are pre-polished connectors, so no heat cure devices or special tooling are needed to terminate the fiber. It takes about one to two minutes per fiber to install a connector out in the field.

OPTICAL CHARACTERISTICS

Process	Specifications (at 1310nm and 1550nm)	
Insertion Loss	Avg.	0.3dB (with master)
	Max	Less than 0.5dB (with master)
Return Loss	Min.	50-60dB (with master)
Item	Applicable Fiber	
Specifications	Singlemode Fiber ITU-T Rec. G652.D or G.657.A1 Diameter: 250um	

TEMPERATURE RANGE

Item	Specifications
Storage Temperature	-40 ~ 80°C
Operational Temperature	40 ~ 75°C

MECHANICAL CHARACTERISTICS

Process	Method / Condition	Specifications
Durability Test	100 matings	Deviation in insertion loss \leq 0.2dB
Vibration Test	Vibrating the connectors for 2 hours at amplitude of 1.52mm (\pm 0.75mm) with the frequency sweeping continuously between 10 and 55Hz at a rate of 45Hz per minute, 1 cycle is 4 minute.	Deviation in insertion loss \leq 0.2dB
Impact Test	Accidentally dropping the connectors from 4 m height, repeat 8 times	Deviation in insertion loss \leq 0.2dB
Transmission with Applied Tensile Load	Applying loads using the tensile test facility – 3N load, last for 60 sec	Deviation in insertion loss \leq 0.2dB
Thermal Cycle Test	Temperature -40°C to 75°C each cycle, 21 cycles, 168 hr. (7 days)	Deviation in insertion loss \leq 0.2dB
End face Geometry Test	Interferometer	Apex offset: 0~50um Radius of Curve: 5~12um Protrusion/Undercut: \pm 100nm APC Angular Tolerance: 7.850~8.050 degree



STANDARDS

- Telcordia GR-326-CORE, GR-1081-CORE, and IEC 61300

FEATURES AND BENEFITS

- Cost effective and reusable
- Easy to deploy fiber solution, such as FTTH (Fiber To The Home), Optical Networks
- Applicable for Field installable attenuator and FBG (Fiber Bragg Gratings for fiber line monitoring system)
- No field polishing or epoxy required

TECHNICAL SPECIFICATIONS

Parameter	SM : SC/PC, LC/PC	MM : SC/PC, LC/PC
Fiber Type	Single Mode :	Multi Mode
	9/125 μm	50/125 μm , 503/125 μm , 504/125 μm
Insertion Loss	Max. \leq 0.5 dB Avg. \leq 0.3 dB	Max. \leq 0.5 dB Avg. \leq 0.3 dB
Reflectance	\geq 40-50 dB(PC/UPC), \geq 50-60 dB(APC)	
Operational Temperature	-30 ~ 75°C	
Storage Temperature	-40 ~ 80°C	
Tensile Load (on 900 μm)	0.55 lb (250g) Load \leq 0.2 dB Change	

ORDERING

FIC9-SC-APC-0.9-9	SC/APC for 0.9mm single mode (insert Guide type) Field Installable Connector
FIC9-SC-UPC-0.9-9	SC/UPC for 0.9mm single mode (insert Guide type) Field Installable Connector
FIC9-LC-APC-0.9-9	LC/APC for 0.9mm single mode (insert Guide type) Field Installable Connector
FIC9-LC-UPC-0.9-9	LC/UPC for 0.9mm single mode (insert Guide type) Field Installable Connector
FIC9-SC-UPC-0.9-503	SC/UPC for 0.9mm multi-mode OM3 (insert Guide type) Field Installable Connector
FIC9-SC-UPC-0.9-504	SC/UPC for 0.9mm multi-mode OM4 (insert Guide type) Field Installable Connector
FIC9-LC-UPC-0.9-503	LC/UPC for 0.9mm multi-mode OM3 (insert Guide type) Field Installable Connector
FIC9-LC-UPC-0.9-504	LC/UPC for 0.9mm multi-mode OM4 (insert Guide type) Field Installable Connector



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