



Y-CIRC
S E R I E S



Y-CIRC P
FIBER OPTICS CONNECTOR

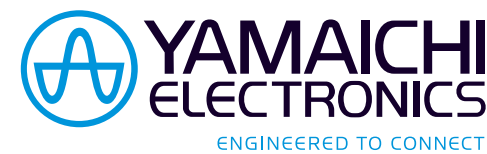
WE ARE WELL CONNECTED



DIAMOND SA is a Swiss-based company with a long experience of specializing in the design, manufacturing and assembly of both standard and custom fiber optic connectors and assemblies. Our patented Active Core Alignment (ACA) process allows for unprecedented performance, including very low insertion loss. In addition, DIAMOND SA is also proud to be the inventor of the world-famous E-2000® connector.

As a vertically integrated company, DIAMOND SA is one of the few manufacturers in the fiber optics industry with total control over the material supply chain and manufacturing process used to produce its product. DIAMOND SA is able to process high-quality ceramic, metal and plastic components, starting from the raw material straight through to the end product.

We assemble our components to create finished products and a wide range of cable assemblies. We are able to manufacture and prefabricate products using different optical fibers and ferrule technologies according to customer requirements. Diamond uses a unique two-component connector ferrule, comprising of a high-precision ceramic ferrule with a titanium insert. This unique ferrule, together with Diamond's patented Active Core Alignment process, precisely aligns the fiber core to the axis of the ferrule to reduce Insertion Loss values to a minimum. This special process enables Diamond to ensure high-performance in all its products.



Yamaichi Electronics – Our Name is our Mission

YAMA is Japanese and means MOUNTAIN, ICHI stands for ONE, YAMAICHI therefore, means mountain one or mountain top. „Top“ is our mission. In the test solution division, we already gained the market leadership. This success is our drive for all other business units.

Engineered to Connect

As one of the renowned connector manufacturers, we offer high-quality contacting solutions for all applications in the semiconductor, automotive, data networking, automation, medical technology, industrial, measurement & test technology, automotive measurement technology, embedded computing and other markets.

Yamaichi Electronics is a market leader for Test & Burn-In sockets, connectors and connection systems. Their reliability and functional dependability are essential for success of the overall project. Yamaichi Electronics established themselves on the world market very quickly as a manufacturer of high quality, reliable components for demanding applications. Many of our electromechanical components are developed, qualified, and manufactured in Germany – 100% Made in Germany.

DIAMOND + YAMAICHI

Our goal is to provide our customers with a high-quality connector that meets their requirements in the best possible way. This is not only our goal, but also that of our partner Diamond, which is why we decided to combine the push-pull solution from Yamaichi's Y-Circ P series with high quality fiber optic components from DIAMOND SA.

By combining the know-how of two experts from two different worlds, a product is created that combines the best of both. We will be able to offer most of the fibers and polishings available from Diamond in the Y-Circ P Series. This includes MM, SM, PM and other small diameter fibers with PC and APC polishing. The Expanded Beam (XB) technology will also be available.

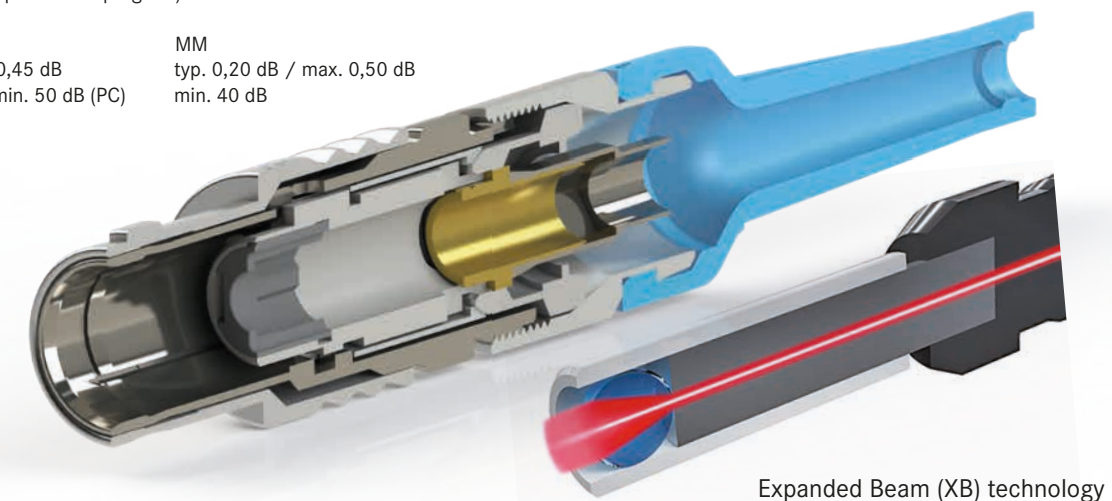
CONNECTOR TYPES FOR FIBER OPTIC



		B/T SERIES				
		LAYOUT	09	12	15	18
MIX COAX LAYOUTS						
SO	1x Fiber Optic Channel from Diamond portfolio: Type: MM, SM, PM		-	1x FO	-	-
D4	2x Fiber Optic Channel from Diamond portfolio: Type: MM, SM, PM 4x Low Voltage		-	-	-	2x FO 2x 1.3 2x 0.9

Preliminary optical values (tbc by qualification program):

	SM	MM
IL	typ. 0,20 dB / max. 0,45 dB	typ. 0,20 dB / max. 0,50 dB
RL	min. 75 dB (APC) / min. 50 dB (PC)	min. 40 dB



CLEANING KIT

DIAMOND FIBER OPTIC EQUIPMENTS

INSPECTION EQUIPMENT

Proper performance of a fiber optic connection is strongly dependant on the cleanliness of the mated ferrules.

DIAMOND connectors are thoroughly inspected and cleaned prior to shipment and do not require cleaning before being placed into service. After repeated matings, however, or when degraded performance is observed, it may become necessary to clean the individual ferrules and mating sleeve. DIAMOND's cleaning set contains all necessary tools for proper cleaning and inspection procedures to help ensure optimal connector performance.

CONTENT OF THE STANDARD CLEANING KIT

- Inspection microscope with universal adapter Ø2.5mm, Ø1.25mm
- CLETOP easy clean cassette with replacement reel
- Spender box with 100pcs Lint-free disposable wipes
- Ferrule mate cleaner for 2.5mm and 1.25 PC/APC ferrules
- 2.5mm and 1.25mm brushes for cleaning mating sleeve
- Alcohol spray dispenser 1.5dl (empty)
- Service Adapter E-2000® and F-3000®
- Visual Fault Locator ML3: safety feature which automatically switches
- OFF the red light avoiding eye injuries. This occurs after an impact such as falling out one's hands, violent shaking or brusquely leaning it on a bench
- User manual



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The specifications are subject to change without notice.

YAMAICHI ELECTRONICS

Deutschland GmbH
Concor Park
Bahnhofstraße 20
85609 Aschheim-Dornach
Germany

Phone +49 (0)89 45109-0
Fax +49 (0)89 45109-110
E-Mail sales@yamaichi.de
Web www.yamaichi.de

YAMAICHI ELECTRONICS

Italia s.r.l.
Centro Direzionale Colleoni
Via Colleoni, 1
Palazzo Taurus Ing. 1
20864 Agrate Brianza (MB)
Italy

Phone +39 039 6881-185
Fax +39 039 6892-150
E-Mail sales@yamaichi.it
Web www.yamaichi.it

YAMAICHI ELECTRONICS

GB Ltd.
6 The Clockhouse
Stratton Park
Micheldever
Hampshire SO21 3DP
Great Britain

Phone +44 (0)7808 493377
Fax +44 (0)1962 774902
E-Mail sales@yamaichi.co.uk
Web www.yamaichi.co.uk

YAMAICHI ELECTRONICS

Israel
P.O. # 66
Palmachim 7689000
Israel

Phone +972 54 20444 23
Fax +972 88 664 344
E-Mail sales@yamaichi.co.il
Web www.yamaichi.co.il