

LC-T series

F727 fiber optic connectors for ultra tight cable structure

Radiall releases a range of standard interface fiber optic connectors specially designed for ultra tight cable structure (type ABS0963 -003LF used in aeronautic and harsh environment applications).

The distinctiveness of this cable is that all the elements are tightened thus preventing any movement of the fiber inside the buffer and jacket. Such a structure requires special parts and a new installation process to guarantee the free sliding of the 900µm buffer inside the jacket and the pull-proof characteristics of this "Physical Contact" connector family.

(Assembly process under pending patent)

Radiall's solution meets all these requirements.

Also available in SC-T and FC-T versions. Refer to the table below for part numbers.

A black color boot differentiates these new connectors from the standard version.

LC MECHANICAL PERFORMANCES - According to ARINC 801 specification.

Vibration test	50 to 2000 Hz, 0.2g2/Hz, 16.4 grms, 8 Hr/axis
Impact test	1.5m drop, 8 cycles
Mechanical endurance	200 matings
Cable retention	68 N

Optical performance is similar to the standard connector range. Environmental performance depends on cable specification.

CONNECTOR RANGE for cable dia. 1.7 / 2.2mm Ultra tight structure / type ABS0963-003LF

Series	Packing	Multimode fiber	Singlemode fiber	Singlemode fiber
		Optical ceramic size 128 µm for PC termination	Optical ceramic size 125.3 µm for PC and UPC termination	Optical ceramic size 125.3 µm for APC termination
LC	1	F727 003 520	F727 000 520	F727 050 520
	100	F727 103 520	F727 100 520	F727 150 520
SC	1	F728 003 520	F728 000 520	F728 050 520
	100	F728 103 520	F728 100 520	F728 150 520
FC	1	F729 003 520	F729 000 520	F729 050 520
	100	F729 103 520	F729 100 520	F729 150 520

Technical Datasheets are available at www.radiall.com or on request.

TOOLING

In addition to standard tools commonly used in the fiber optic field (strippers, scoring blades, polishing jigs, etc....), the following accessories are required.

Description	Part number
Resin injector for LC-T connectors (see note 1)	F780 503 000
Pack of accessories for resin injector (capillaries)	F780 504 000
Metal unit block for curing oven (see note 2)	F780 613 000
LC-T adaptor for unit block	F780 614 000
SC-T adaptor for unit block	F780 615 000
FC-T adaptor for unit block	F780 616 000

Recommended crimping tools

LC-T connector (3.40 hex.) F780 057 000
 SC-T / FC-T connector (4.51 hex.) F780 051 000

Note 1

For the LC-T, the user can choose between two methods of resin injection. Either by the connector's rear body or by the front through the optical ferrule if the operator already familiar with the assembly process of the LuxCis® termini contact. For SC-T and FC-T, the standard injection method by the connector rear body should be used.

Note 2

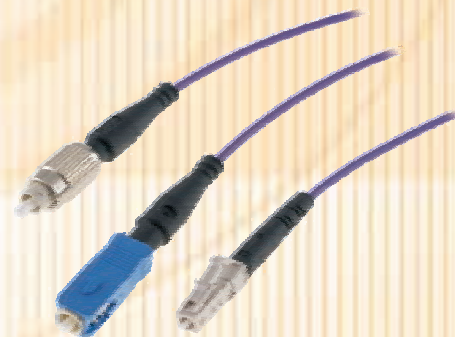
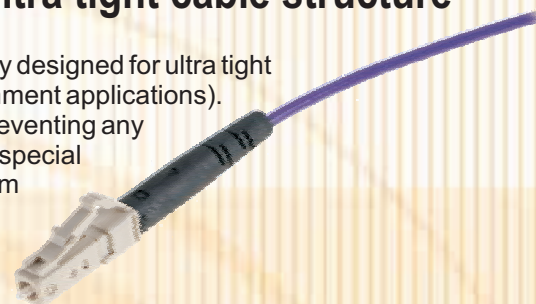
Curing ovens without a unit block can be ordered using following part numbers
 F780 477 000 (110V)
 F780 478 000 (220V)

Installation procedure for LC-T tight structure cable connector 503 08 610 A.

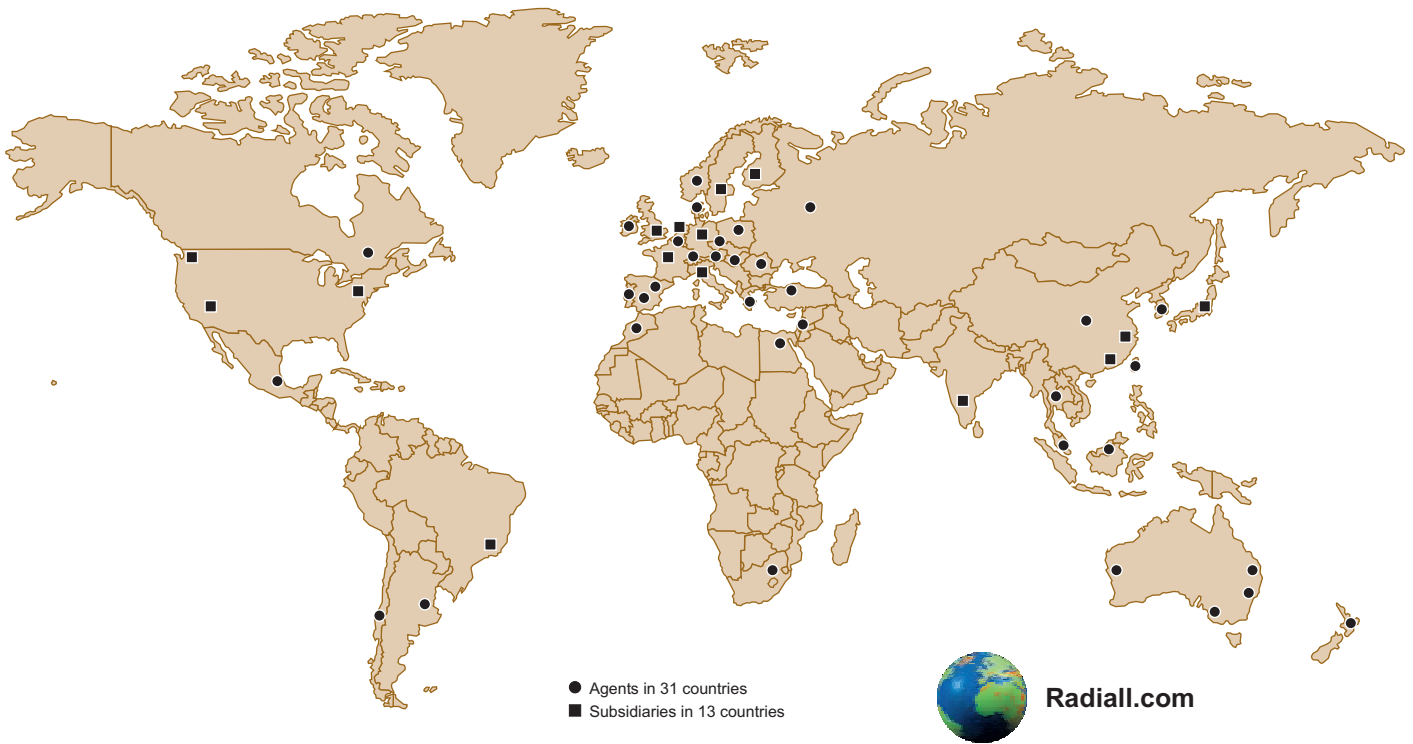
Installation procedure for SC-T and FC-T tight structure cable connector 503 08 600 A.

Available on request.

Contact us for cable assemblies information.



Duplex clips are available for LC and SC. Please refer to the relative catalogue, available at www.radiall.com or on request.



● Agents in 31 countries
 ■ Subsidiaries in 13 countries



Radiall.com

RADIALL WORLDWIDE LOCATIONS

EUROPE

France - RADIALL HEADQUARTERS

101, Rue Ph. Hoffmann - 93116 ROSNY sous BOIS (Paris)
 Tel. : +33 1 49 35 35 35 Fax : +33 1 48 54 63 63
 E-Mail : info@radiall.com

Finland - RADIALL FIN

Pilot Business Park - Lentokatu 2 - FIN-00460 OULUNSAALO
 Tel. : +358 852 70 130 Fax : +358 852 70 105
 E-Mail : info@radiall.fi

Germany - RADIALL GmbH

Carl-Zeiss Str. 10 Postfach 200143 - D63307 RÖDERMARK (Frankfurt)
 Tel. : +49 60 74 91 07 0 Fax : +49 60 74 91 07 70
 E-Mail : info@radiall.de
 Regional office : Munich

Italy - RADIALL Elettronica S.R.L.

Via Concordia, 5 - I20090 ASSAGO MILANO
 Tel. : +39 02 48 85 121 Fax : +39 02 48 84 30 18
 E-Mail : radiall@tin.it
 Regional office : Roma

Netherlands - RADIALL B.V.

Hogebrinkerweg 15b - 3871 KM HOEVELAKEN
 Tel. : +31 33 253 40 09 Fax : +31 33 253 45 12
 E-Mail : info@radiall.nl

Sweden - RADIALL A.B.

Sjöängsvägen 2 - SE-192 72 SOLLENTUNA (Stockholm)
 Tel. : +46 844 434 10 Fax : +46 875 449 16
 E-Mail : info@radiall.se

U.K. - RADIALL Ltd

10, Perivale Industrial Park, Horsenden Lane south
 PERIVALE Middlesex UB6 7RL (London)
 Tel. : +44 208 991 7700 Fax : +44 208 991 7769
 E-Mail : info@radiall.co.uk

AMERICA

USA - RADIALL (RF Interconnect Product)

*RF Microwave Connectors & Cable Assemblies, Microwave Switches & Devices,
 Fiber Optic Connectors*
 102 W. Julie Drive - TEMPE, Arizona 85283
 Tel. : +1 480 730 5700 Fax : +1 480 730 5800
 E-Mail : sales@radiallusa.com

USA - RADIALL (Antenna Product)

Antennas for Automotive, Military & Wireless communications (LARSEN Product)
 3611 NE 112th Avenue - VANCOUVER, Washington 98682
 Tel. : +1 360 944 7551 Fax : +1 360 944 7556
 E-Mail : info@radiallarsen.com

USA - RADIALL (High Reliability Product)

Multicontact Connectors, Filtered Connectors (JERRIK Product)
 102 W. Julie Drive - TEMPE, Arizona 85283
 Tel. : +1 480 730 5700 Fax : +1 480 730 5800
 E-Mail : sales@radialljerrick.com

Brazil - RADIALL do Brasil

Largo do Machado, 54 sala 706 - Catete
 22221-020 RIO DE JANEIRO
 Tel. : +55 21 2558 05 76 Fax : +55 21 2245 97 63
 E-Mail : hubertm@radiall.com.br

ASIA

China - SHANGHAI RADIALL Electronic Co., Ltd

N° 390 Yong He Road 200072 - SHANGHAI
 Tel. : +86 21 66 52 37 88 Fax : +86 21 66 52 11 77
 E-Mail : radialls@online.sh.cn

Japan - NIHON RADIALL KK

1-3-10, Higashi nihonbashi, Chuokku, TOKYO 103-0004
 Tel. : +81 3 3866 23 90 Fax : +81 3 3866 23 91
 E-Mail : emiko@radiall.co.jp

HongKong - RADIALL Electronics Ltd

Elite Industrial Centre, Room 212, 2/F
 N° 883 Cheung Sha Wan Road - KOWLOON HONG KONG
 Tel. : +852 29 59 38 33 Fax : +852 29 59 26 36
 E-Mail : info@radiall.com.hk

India - RADIALL PROTECTRON

25 D, II Phase, Peenya Industrial Area - BANGALORE 560058
 Tel. : +91 80 83 95 271 Fax : +91 80 83 97 228
 E-Mail : radiall@vsnl.com

REPRESENTED IN

Africa	Israël	South Africa
Australia	Middle East	South Korea
Belgium	Poland	Switzerland
Greece	Spain	Turkey

For the above countries, please contact the local agent or RADIALL HEADQUARTERS at
 export@radiall.com

May 2005 Edition

D6 F139 XE



®Registered Trade Mark

Printed in France

This information is intended as a guide only. To ensure a continuing policy of product improvement, Radiall reserves the right to modify its specifications without prior notification.