

OSIS by Radiall™ One Step Interconnection Solution



Introduction

THE EASIEST OUTDOOR INTERCONNECTION SOLUTION: IN ONLY ONE CLICK!

To meet the requirements of telecommunication operators in new generation of flexible base stations using FTTA links (fiber-to-the-antenna), Radiall has developed a new fast waterproof connection system: $OSIS^{m}$, the One Step Interconnection Solution.

The OSIS by Radiall (Trademark) connection system makes secure and waterproof standard LC connection to SFP transceiver at the panel front of the equipment. It has been designed to withstand environmental constraints of outdoor applications in field conditions.

OSIS™ is available as a component (Kit Plug) to fit on any conventional LC connector or as a complete cable assembly.

BENEFITS & FEATURES

Easy to Install

- Quick lock Push-Pull connection system in One Step Patent Pending
- Direct Plug into SFP module
- Compensation of the transceiver position tolerances in X, Y and Z axis

Robust and safe

- LC connectors always protected
- Waterproof and dustproof
- Important tensile strength



Flexible and modular

- Kit assembled in the field without tools over existing optical patch cords
- Compatible with a large range of standard LC connectors and standard SFP transceivers

High density

Stackable



APPLICATIONS

- All outdoor telecommunication applications
- Antenna uplinks and downlinks in new installations supporting innovative technologies: 3G, 4G, WIMAX, CDMA, LTE

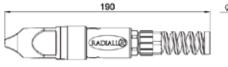
Products characteristics

OSIS™ PLUG KIT

Part Number: OSIS 115 000 (Plug connector only: no patch cord)



Overall Dimensions (mm)

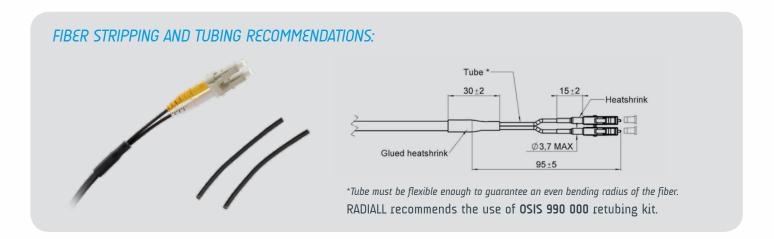




Packaging: unitary in plastic bag with assembly note.

The OSIS™ Plug Kit is adapted to all types of optical cable assemblies with simplex or duplex standard LC connectors and 5 to 7 mm diameter MultiMode or SingleMode field cable – other diameters on request.

To guarantee proper operation when the OSIS™ Plug Kit is assembled over existing optical patch cords, the following fan-out definition is recommended:



MAIN CHARACTERISTICS

OSIS by Radiall™ connector is IEC 61300 qualified (fiber optic interconnection devices)

Mechanical

Endurance	100 mating cycles minimum
Retention force	200N
Vibrations / Shocks	IEC 61300-2-1 / IEC 61300-2-9

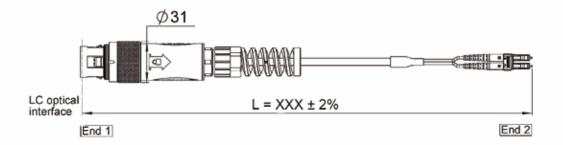
Environmental

Ingress protection	IP65 or IP67 optionally
Temperature range	-40°C to +85°C
Salt Mist	IEC 61300-2-26





OSIS™ PRE-MOUNTED OPTICAL CABLE ASSEMBLIES



Any configuration of pre-mounted optical cable assembly with OSIS™ is available on demand:

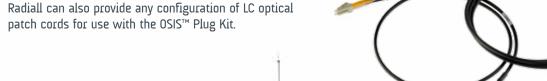
- Field cables with diameters of 5 to 7 mm on standard other cable sizes on request
- Standard LC connectors (OSIS side)
- Any possibility of optical connectors on the opposite side (LC, SC, FC, ST, ...)
- Simplex or duplex connectors
- MultiMode (50/125 or 62.5/125 on request) or SingleMode (9/125) field cable
- Polishing/finishing: PC or APC

OPTICAL CHARACTERISTICS

MultiMode field cable

 Simplex or duplex connectors MultiMode (50/125 or 62.5/125 on request) or SingleMode (9/12 Polishing/finishing: PC or APC 	5) field cable	
OPTICAL CHARACTERISTICS According to IEC 61300-3-4 and IEC 61300-3-6		
MultiMode field cable Insertion Loss (mated with reference plug) @850 nm	≤ 1.2 dB + 2.5 dB/Km	THE WAY
SingleMode field cable	S 1.2 ub + 2.3 ub/Mil	
Insertion Loss (mated with reference plug) (@1310 & 1550 nm) Return Loss (@1310 & 1550 nm)	≤ 1.2 dB RL > 45 dB	

LC PATCH CORDS





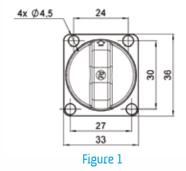
OSIS™ RECEPTACLES



The standard OSIS™ receptacle is waterproof to IP67.

The receptacle is delivered with the protection cap mounted on the body.

It includes a center pin which has to be inserted into the transceiver cage to center the receptacle in X and Y axis before to fix it on the panel with screws.



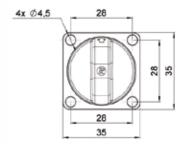


Figure 2

PART NUMBER	FIGURE	DESCRIPTION
OSIS 107 000	1	Receptacle with Trapezoidal fixture holes (foot print 24 / 27 x 30 mm)
OSIS 107 001	1	Receptacle with Trapezoidal fixture holes (foot print 24 / 27 x 30 mm) with cord
OSIS 107 002	2	Receptacle with Square fixture holes (foot print 28 x 28 mm)



















EUROPE

France - RADIALL S.A.

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 SF

P.O. Box 202 - 90101 OULU Tel.: +358 407 522 412 F-Mail: infofi@radiall.com

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: infode@radiall.com

Italy - RADIALL Elettronica S.R.L.

Via Concordia, 5 - 20090 ASSAGO MILANO Tel.: +39 02 48 85 121 - Fax: +39 02 48 84 30 18

E-Mail: infoit@radiall.com 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: infonl@radiall.com

Sweden - RADIALL A.B.

Sjöängsvägen 2 - SE-192 72 SOLLENTUNA (Stockholm) Tel.: +46 844 434 10 - Fax: +46 875 449 16

E-Mail: infose@radiall.com

U.K. - RADIALL Ltd.

Ground Floor, 6 The Grand Union Office Park,

Packet Boat Lane

UXBRIDGE Middlesex UB8 2GH (London)
Tel.: +44 1895 425 000 - Fax: +44 1895 425 010

E-Mail: infouk@radiall.com

NORTH AMERICA

USA - RADIALL USA, Inc.

6825 West Galveston Street CHANDLER, Arizona 85226

Tel.: +1 480 682 9400 - Fax: +1 480 682 9403

E-Mail: infousa@radiall.com

ALSO REPRESENTED IN

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

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: infosh@radiall.com

Japan - NIHON RADIALL

Shibuya-ku Ebisu 1-5-2, Kougetsu Bldg 405 TOKYO 150-0013

Tel.: +81 3 3440 6241 - Fax: +81 3 3440 6242 E-Mail: infojp@radiall.com

Hong Kong - RADIALL Electronics Ltd.

Flat D, 6/F, Ford Glory Plaza, 37-39 Wing Hong Street Cheung Sha Wan KOWLOON HONG KONG

Tel: +852-2959-3833 - Fax: +852-2959-2636

E-Mail: infohk@radiall.com

India - RADIALL India Pvt. Ltd.

25 D, II Phase, Peenya Industrial Area BANGALORE 560058

Tel.: +91 80 83 95 271 - Fax: +91 80 83 97 228

E-Mail: infoin@radiall.com



