

OSIS™ Series

OSIS



Australian Representatives

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RADIAL 
The next conneXion

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INTRODUCTION



OSIS™: The One Step Interconnection Solution

OSIS by Radiall™ connector (Trademark of Radiall) is a new fast connection system dedicated to outdoor telecom FTTA applications in new generation of flexible base stations. Designed for insuring waterproof connection for optical links in field conditions, this very flexible push-pull connector allows a connection by the operator in only one click: "the quickest outdoor interconnection solution"

OSIS™ is available as a component (Plug Kit) 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

- Fiber To The Antenna
- Outdoor telecom
- Industrial connections



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OSIS™ connector has been designed to fulfill the qualification requirements of IEC 61300 standard (for fiber optic interconnection devices)

MECHANICAL CHARACTERISTICS

Cable retention	200 N
Mating endurance	100 mating cycles minimum

ENVIRONMENTAL CHARACTERISTICS

Ingress Protection class	IP65 or IP67 optionally (*)
Operating temperature	-40°C / +85°C
Storage temperature	-40°C / +85°C
Salt mist	IEC 61300-2-26 passed
Vibrations	IEC 61300-2-1 passed

(*): IP65 for full assembly by kit in the field over existing patch cords

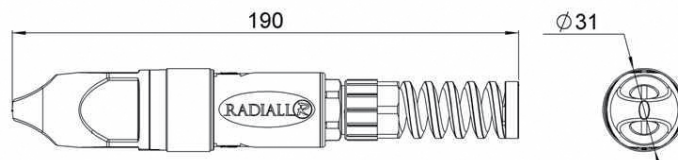


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PRODUCT RANGE

OSIS™ PLUG KIT

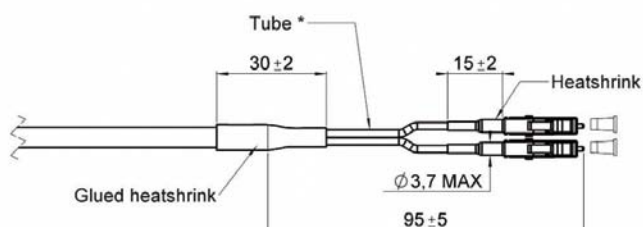


Part number	Note	Packaging
OSIS 115 000	Plug connector only: no patch cord	unitary in plastic bag with assembly note

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:

FIBER STRIPPING AND TUBING RECOMMENDATIONS:



* Tube must be flexible enough to guarantee an even bending radius of the fiber.

RADIALl recommends the use of OSIS 990 000 retubing kit.



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OSIS™ RECEPTACLES



The standard OSIS™ receptacle is IP67 waterproof.
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.

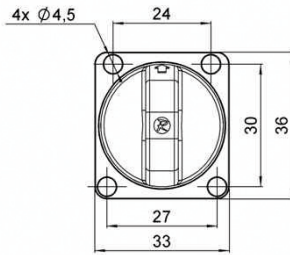


Figure 1

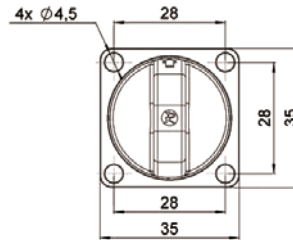


Figure 2

Part number	Figure	Description
OSIS 107 000	1	Receptacle with Trapezoidal fixture holes (foot print 24 / 27 x 30 mm)
OSIS 107 001		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)



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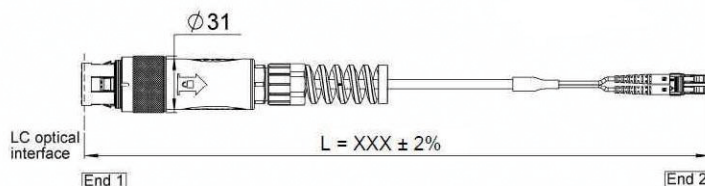
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PRODUCT RANGE

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

According to IEC 61300-3-4 and IEC 61300-3-6

MultiMode field cable

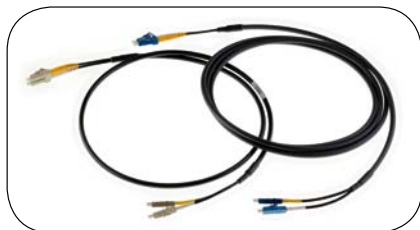
Insertion Loss (mated with reference plug) (@850 nm)	$\leq 1.2 \text{ dB} + 2.5 \text{ dB/Km}$
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SingleMode field cable

Insertion Loss (mated with reference plug) (@1310 & 1550 nm)	$\leq 1.2 \text{ dB}$
Return Loss (@1310 & 1550 nm)	$RL > 45 \text{ dB}$

LC PATCH CORDS

Radiall can also provide any configuration of LC optical patch cords for use with the OSIS™ Plug Kit.



For more detailed information: please refer to the “Cable assemblies” section of this catalogue.



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