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## **OPUS Series**

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Visit www.radiall.com and enter the part number.

## Introduction



#### OPUS: OUTDOOR PUSH-PULL UNIVERSAL SOLUTION Compact, Dense & Modular

Radiall has initiated a new concept to answer to the most severe requirements of the customers concerning sustainability and impact on the environment:

- reduction of the size of the equipment
- increased level of corrosion resistance: pollutant gases, corrosive atmospheres

Compact, flexible and modular, OPUS is well adapted to this need for deployment of 4G LTE in Telecom Wireless, or any other industrial situation.

## APPLICATIONS Telecom: Fiber To The Antenna

Industrial Connections Broadcasting



## INTERNATIONAL STANDARD DOCUMENTS COMPLIANCE

- IEC 61300 Fiber optic interconnecting devices and passive components
- IEC 60068 Environmental testing
- Telcordia GR-950 Optical Network Unit (ONU) Closures and Systems
- Telcordia GR-3108-CORE Class 4 Network Equipment in the Outside Plant (OSP)
- IEC 60529 Degrees of protection provided by enclosures (IP code)
- RoHS compliant

### FEATURES AND BENEFITS

#### Easy to Install

- Push-Pull connection: same quick lock interface as OSIS®
- More compact
- High density

#### High Resistance and Sustainability

- All engineered plastic for better corrosion resistance: adapted to Salt Spray combined with pollutant gases (SO<sub>2</sub>)
- Waterproof and dustproof: IP67 level
- LC connectors always protected

#### **Flexible and Modular**

- Field installable without tools over existing patchcords
- Total modularity of the receptacle and the plug: compatible with any type of signal (optical, ethernet RJ45, or even coaxial)



Push-Pull connection



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## Characteristics

OPUS solution has been designed to fulfill the qualification requirements of IEC 61300 standard (for fiber optic interconnection devices) and Telcordia GR-950 for American markets.

#### **MECHANICAL CHARACTERISTICS**

Cable retention	100 N minimum	
Mating endurance		

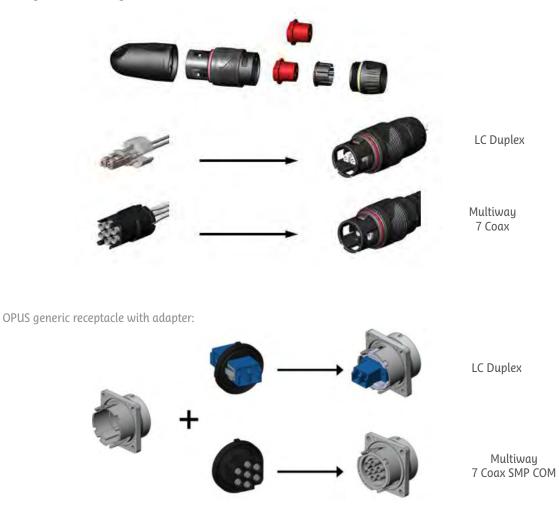
### **ENVIRONMENTAL CHARACTERISTICS**

Ingress protection class	IP67	
Operating temperature -40°C/+85°C		
Storage temperature	-40°C/+85°C	
Salt spray	IEC 61300-2-26 passed, 720H of exposure with addition of $\mathrm{SO_2}$ gas	
Vibrations IEC 61300-2-1 passed		

#### CONCEPT OF TOTAL MODULARITY

Only one component needs to be changed from one type of signal to another, while the connector shell remains the same.

OPUS generic Short Plug Kit:



Radiall 💓

# Product Range OPUS SHORT PLUG KIT



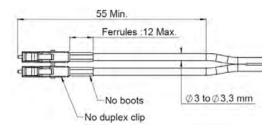
Part Number	Note	Packaging	
OPUS 117 200	Plug connector only; no patchcord	connector only; no patchcord Unitary in plastic bag with assembly note	

The OPUS Short Plug Kit has been designed to fit with fiber optic cables with a 3 mm diameter and for connection to a receptacle with adapter.

The Kit can be mounted in the field on simplex or duplex cables, with a 3 mm diameter, and ensures a IP67 protection due to the two specific sealing gaskets.

To guarantee proper operation when the OPUS Short Plug Kit is assembled over existing optical patchcords, the following preparation is recommended:

#### LC Patchcord Termination Recommendations





Short OPUS simplex cable connected on receptacle



Short OPUS duplex cable connected on receptacle



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## Product Range

### OPUS RECEPTACLE WITH LC DUPLEX ADAPTER

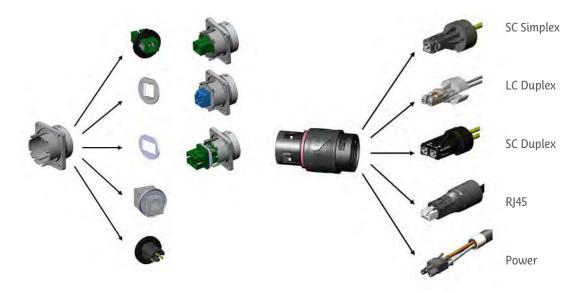


Part Number	Description	Packaging
OPUS 107 200	OPUS receptacle with LC duplex adapter, SingleMode APC*, plastic cap with cord – IP67	60 pieces

\*Other versions for MultiMode or SingleMode available upon request. Please contact us.

#### **OPUS RANGE EXTENSION**

Development of the following versions:



For any additional information, please contact your local Radiall representative.



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### Product Range

#### **OPUS PRE-MOUNTED OPTICAL CABLE ASSEMBLIES**

Any configuration of pre-mounted optical cable assembly with OPUS Short Plug Kit on simplex or duplex cable diameter 3 mm can be available on demand.



A plastic corrugated protective sleeve can fit at the rear extremity of the OPUS Short Plug Kit due to a standard adapted thread, thus ensuring complete IP67 protection over the entire length of the cable.





#### LC PATCHCORDS

Radiall can also provide any configuration of LC optical patchcords for use with the OPUS Short Plug Kit.



Please refer to Section 9, Cable Assemblies & Optical Systems, for more information.

