

SECTION 8

OPUS



OPUS Series



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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 (SO₂)
- 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

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	100 mating cycles minimum

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 SO ₂ gas
Vibrations	IEC 61300-2-1 passed

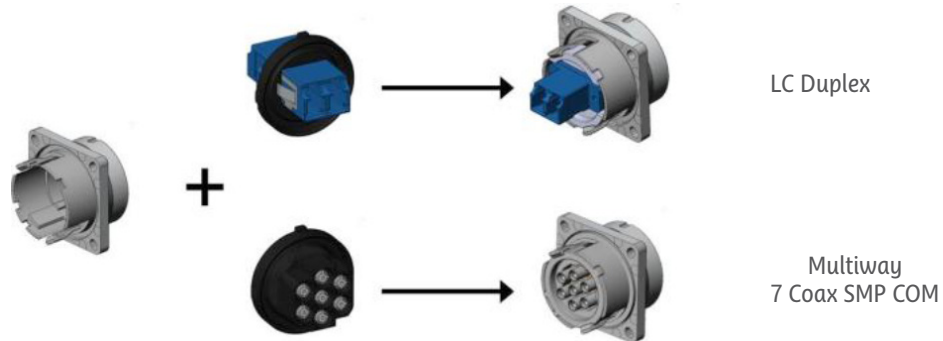
CONCEPT OF TOTAL MODULARITY

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:



OPUS generic receptacle with adapter:



Product Range

OPUS SHORT PLUG KIT



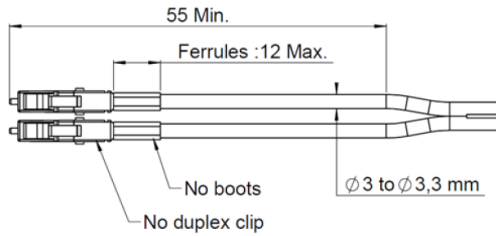
Part Number	Note	Packaging
OPUS 117 200	Plug connector only; no patchcord	Unitary in plastic bag with assembly note

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 an 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



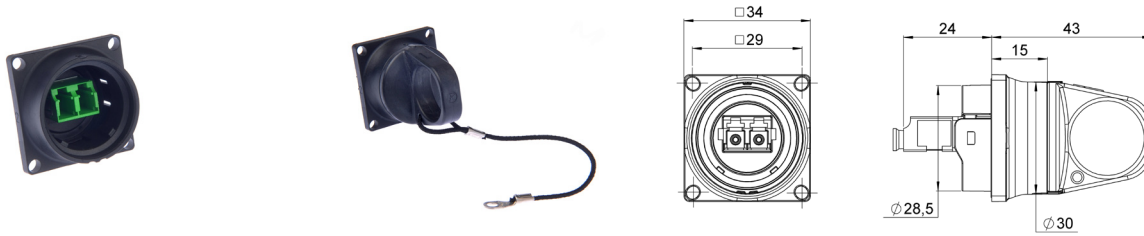
Short OPUS simplex cable connected on receptacle



Short OPUS duplex cable connected on receptacle

Product Range

OPUS RECEPTACLE WITH LC DUPLEX ADAPTER

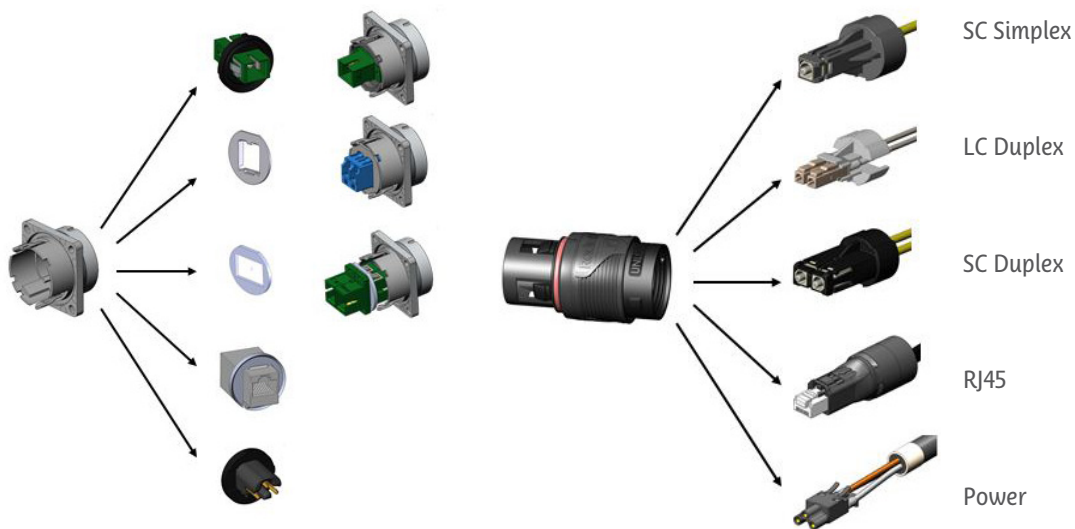


Part Number	Description	Packaging
OPUS 107 200	OPUS receptacle with LC duplex adapter, SingleMode APC*, plastic cap with cord – IP67	60 pieces

*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.

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.

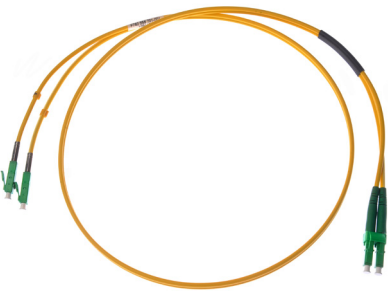


A plastic corrugated protective sleeve can fit at the rear extremity of the OPUS Short Plug Kit due to a standard adapted thread, thus ensuring complete IP67 protection over the entire length of the cable.



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.