



R2CT
Outdoor Interconnection System

Introduction

The new R2CT connection system is the most flexible solution that meets the needs of telecommunication OEMs and operators for fiber-to-the-antenna (FTTA) and similar multisignal applications in the field conditions.

At the panel front of the remote radio head (RRH) and unit (RRU) equipment, the R2CT provides a simple and protected low-cost waterproof and sealed connection at the cable-to-transceiver interface.

The R2CT has been designed for optical systems using SFP transceivers and duplex LC-terminated fiber-optic cable. It is particularly well adapted to withstand harsh environmental conditions of outdoor applications.

MAIN BENEFITS

Robust and Easy to Install

- Double bayonet locking system ensures mechanical connection allowing a toolless hand-tightened connection - Patent pending
- Kit assembles without tools
- Designed to withstand climatic working conditions of outdoor field applications
- Plug assembly includes a protection cap that can be used for pulling cable

Flexible and Modular

- Kit assembles in the field over existing optical patch cords
- Compatible with any standard optical LC field cable assembly
- Compatible with any standard SFP transceiver
- Reusable allowing cables and transceivers to be easily changed in the field, including front-panel swapping of transceivers
- R2CT connection system can easily be used for other Ethernet and multisignal applications:
compatible with RJ45 patch cords and USB connections

Mechanical and Environmental Protection

- Waterproof
- Dustproof
- Important tensile strength

Low Cost

APPLICATIONS

All outdoor telecommunication applications.

The R2CT solution has been specifically designed for antenna uplink and downlink for RRHs (Remote Radio Heads) and RRUs (Remote Radio Units) in the new generation of flexible base stations supporting 3G, 4G, WIMAX, CDMA, LTE, and other legacy and emerging technologies.



Products characteristics

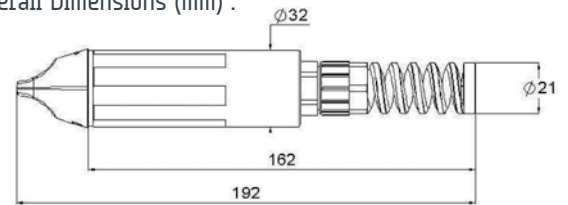


R2CT PLUG KIT

Part Number : R2CT 115 000
(Plug connector only : no patch cord)



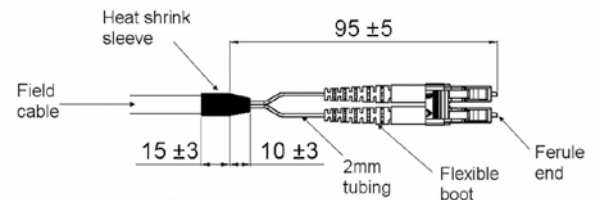
Overall Dimensions (mm) :



Packaging : unitary in plastic bag with assembly note

The R2CT Plug Kit is adapted to all types of optical cable assemblies with simplex or duplex LC connectors and 7-mm-diameter multimode or singlemode field cable - Other diameters on request.

To guarantee proper operation when the R2CT Plug Kit is assembled over existing optical patch cords, the following Fan out dimensions should be observed :



MAIN PERFORMANCES

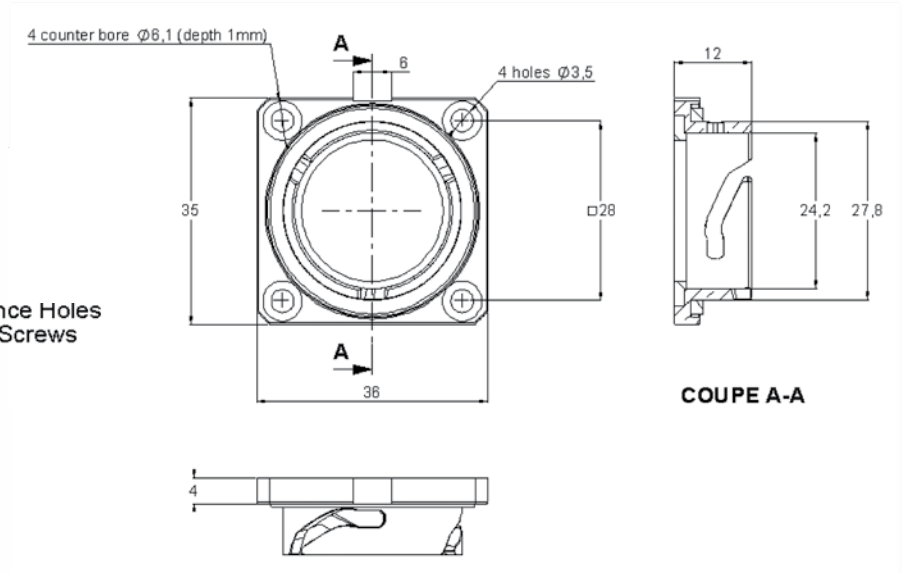
- IP65 for full assembly by kit on field cables or IP67 optionally
- Temperature range: from -40°C to +85°C
- RoHS compliant
- 100 mating cycles minimum
- Retention force: 200 N
- Designed to fulfill the requirements of IEC 61300 for fiber optic interconnection devices



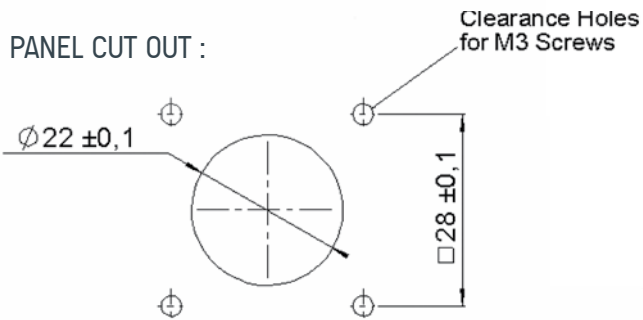
R2CT RECEPTACLE



Overall Dimensions (mm) :



PANEL CUT OUT :



The R2CT receptacle is supplied with protection cap installed.
Two possible configurations : red vinyl or aluminium protection cap.

RECEPTACLE WITH RED PLASTIC PROTECTION CAP

Part Number : R2CT 105 000



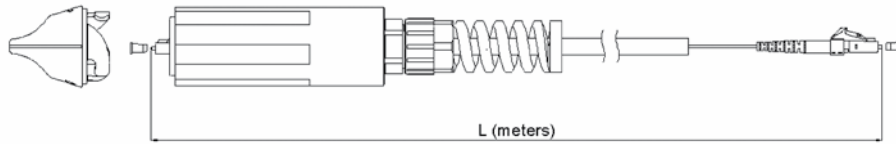
RECEPTACLE WITH METAL PROTECTION CAP

Part Number : R2CT 107 000



R2CT CABLE ASSEMBLIES

Optical Cable Assemblies



Any configuration of cable assembly using R2CT with standard LC connectors on 7-mm-diameter field cable is available on demand - Other cable diameters on request :

- Simplex or duplex connectors
- Multimode (50/125 or 62.5/125 on request) or singlemode (9/125) cable



Optical Performances

according to IEC 61300-3-4

| | |
|---|-----------------------|
| Insertion Loss (mated with reference plug) (@1310 & 1550 nm) | 0.5 dB max (method 6) |
| Return Loss (@1310 & 1550 nm) | RL > 45 dB (method 7) |

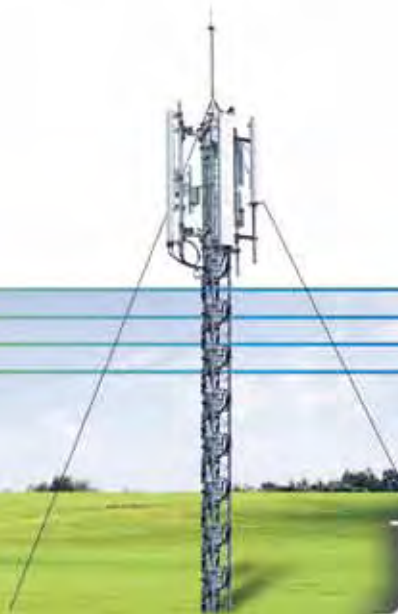
RJ45 Cable Assemblies

R2CT cable assemblies with RJ45 connectors on 7-mm-diameter cable are available in any length on demand - Other cable diameters on request.



Patch Cords

Radiall can also propose any configuration of LC optical patch cords or RJ45 patch cords for use with the R2CT Plug Kit.





AEROSPACE



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INSTRUMENTATION



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