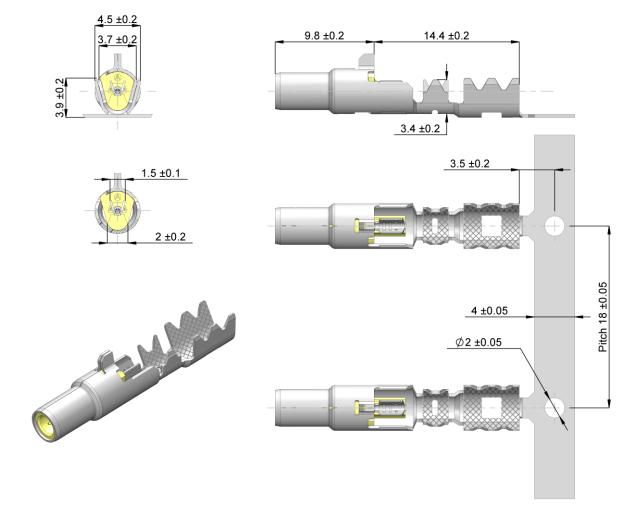
Cable type RG174 (2.6/50 Ω)



R299.197.000

TECHNICAL DATA SHEET

Rev	Date	Edited	Approved	Validated	Modification
1	15/10/2018	C.Chavanne	Y.Gay	R.Chantre	Creation



All dimensions are in mm

Components	Materials	Plating
Center contact	Bronze	Selective gold + selective tin
Outer contact - Body	Bronze	Tin 3 over nickel 1
Insulator	Polymer	-

Cable type RG174 (2.6/50 Ω)



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TECHNICAL DATA SHEET

Optional

Interface

According to ISO 20860-1 / USCAR-18

Waterproof only guaranteed with R299.197.000 + waterproof components, see AI_R3CWP

Application

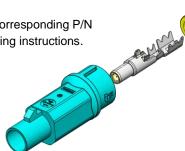
This terminal has to be assembled with the right components (optional ferrule & housing) to reach USCAR17 Rev.2 performances.

• For standard version refer to:

Assembly Instructions AI_R3C to get the corresponding P/N. Crimping Specifications CS_R3C for the crimping instructions.

For waterproof version refer to:

Assembly Instructions AI_R3CWP to get the corresponding P/N Crimping Specifications CS_R3C for the crimping instructions.



Electrical characteristics

Impedance 50 Ω Frequency 0-3 GHz VSWR ≤1.4 to 2 GHz

≤1.5 to 3 GHz

Insertion loss 0-3 GHz ≤0.3 dB

Insulation resistance $\geq 100 \text{ M}\Omega$

Center contact & Outer contact resistance \leq 40 m Ω before mating Outer contact resistance \leq 40 m Ω after 25 matings

RF Leakage ≥ 45 dB to 3 GHz*

* This value is obtained with ferrule accessory R299.197.900 -

R299.197.974

Mechanical characteristics

Mating cycles ≥ 25

Engagement force ≤ 25 N single contact / ≤ 45 N multi contact

Inner conductor retention ≥ 25 N according IEC 60352-2

Cable retention \geq 110 N

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TECHNICAL DATA SHEET

Environmental characteristics

Mechanical shocks / vibrations According to USCAR17 Rev.2
Thermal shocks According to USCAR17 Rev.2
Temperature humidity cycling According to USCAR17 Rev.2
Dry heat According to USCAR17 Rev.2

RoHS Compliant
Operating temperature -40 /+105 °C

Water resistant IP67*

Suitable cables 2.6/50Ω

- Limitations are possible due to the used cable type -

Net weight 0.71 g

Crimping process parameters & recommended tools

In order to guarantee the quality of the final coaxial cable assembly, the terminal must be crimped on the coaxial cable with specific applicators, following specific instructions that have been defined and validated by Raydiall. Please refer to the following documents: **Al_R3C** or **Al_R3CWP** and the customer specific document **CS_R3C**.

Specific attention must be paid with respect to:

- Approved applicator suppliers, references and spare parts.
- Cable modification. Raydiall must validate any change on the cable: new cable supplier, new cable design or material.

Raydiall cannot be responsible for any quality issue if these instructions are not followed.

Storage condition & shelf life

Reel of connectors should be stored indoors, in its original packaging (box + plastic bag), in a controlled climate environment not exceeding -20°C/+40°C and maximum 70% relative humidity. The reels should be protected from direct sunlight and should be used on a "first-in, first-out" basis.

It is recommended that connector be used within 1 year from the date of reception, when stored according to the recommended storage condition.

Product handling

Care must be taken when handling the connectors during all stages of production.

After crimping, when cable assemblies are manually handled, special attention must be paid, not to apply mechanical shock, by dropping connectors onto the floor or other hard surfaces. Once dropped, connectors must be inspected and should not show any type of impact or deformations.

^{*}This level is guaranteed with waterproof R3C housing components and assembly process (refer to **Al_R3CWP)**, connected with terminal R299.197.200 and waterproof components.

Cable type RG174 (2.6/50 Ω)



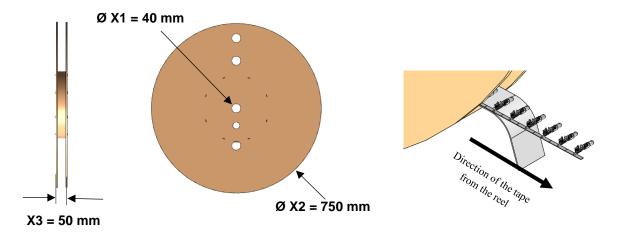
R299.197.000

TECHNICAL DATA SHEET

Packaging

Primary packaging: cardboard reel

- Reel weight ≈ 4.6 kg
- Number of pieces by reel: 3000 ± 2%. It is possible to have a maximum of 5 missing parts consecutively



Secondary packaging: pallet

- Size (WxLxH): 80x80x90 cm
- Weight ≈ 77 kg
- 1 pallet contains 13 connector cardboard reels.
- Number of pieces per pallet = 39 000 ±2%pcs



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