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Fakra R3C – Straight Male terminal

Cable type RTK (3.2/50Ω)



R299.197.010

TECHNICAL DATA SHEET

Interface

According to Waterproof only guaranteed with ISO 20860-1 / USCAR-18 R299.197.010 + waterproof components, see AI_R3CWP

O Destates

Optional

-

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_R3CWP 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 M Ω
Center contact & Outer contact resistance	\leq 40 m Ω before mating
Outer contact resistance	\leq 40 m Ω after 25 matings
RF Leakage	\geq 45 dB to 3 GHz*
	* This value is obtained with ferrule accessory R299.197.900 - R299.197.974
	1233.137.374
Mechanical characteristics	
Mating cycles	≥ 25
Engagement force	\leq 25 N single contact / \leq 45 N multi contact
Inner conductor retention	\geq 40 N according IEC 60352-2

Cable retention

≥ 40 N according IEC 60352-2 \geq 110 N

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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*

*This level is guaranteed with waterproof R3C housing components and assembly process (refer to **AI_R3CWP)**, connected with terminal R299.197.210 and waterproof components.

Suitable cables	3.2/50Ω

- Limitations are possible due to the used cable type -

Net weight 0.76 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: **AI_R3C** or **AI_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.

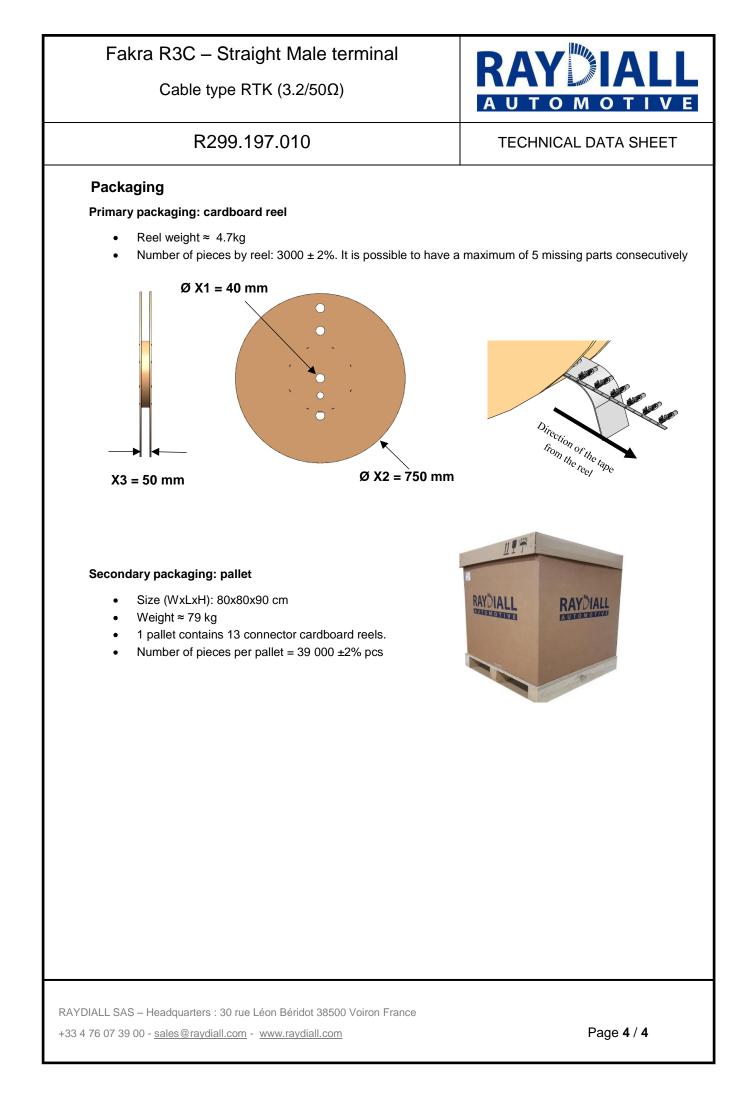
Product handling

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.

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