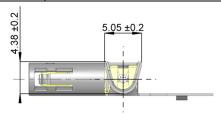
Fakra R3C –Right-Angle terminal Cable type RTK $(3.2/50\Omega)$

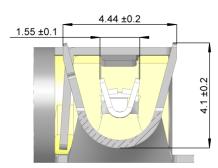


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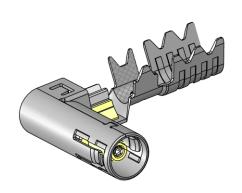
TECHNICAL DATA SHEET

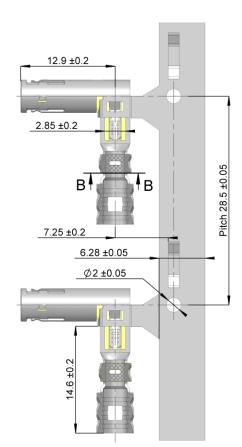
Rev	Date	Edited	Approved	Validated	Modification
1	15/10/2018	C.Chavanne	Y.Gay	R.Chantre	Creation





VIEW B-B





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	-

Fakra R3C –Right-Angle terminal

Cable type RTK $(3.2/50\Omega)$



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TECHNICAL DATA SHEET

Interface

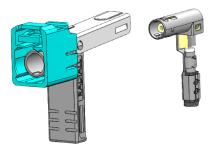
According to ISO 20860-1 & USCAR-18

Application

This terminal has to be assembled with the right components to reach USCAR17 Rev.2 performances.

• For standard version refer to:

Assembly Instructions AI_R-AR3C to get the corresponding P/N Crimping Specifications CS_R-AR3C for the crimping instructions.



Electrical characteristics

 $\begin{array}{ll} \mbox{Impedance} & \mbox{50 } \Omega \\ \mbox{Frequency} & \mbox{0-3 GHz} \\ \mbox{VSWR} & \mbox{\le} 1.4 \mbox{ to 2 GHz}^* \end{array}$

≤1.5 to 3 GHz*

*this value is dependent on the measurement setup & cable used, as no

protocol is defined in the specification.

Insertion loss 0-3 GHz ≤0.3 dB

Insulation resistance \geq 100 M Ω

Center contact & Outer contact resistance $\leq 40 \text{ m}\Omega$ before mating Outer contact resistance $\leq 40 \text{ m}\Omega$ after 25 matings

RF Leakage ≥ 45 dB to 3 GHz

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 ≥ 110 N

Fakra R3C –Right-Angle terminal Cable type RTK (3.2/50Ω)



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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

Suitable cables 3.2/50Ω

- Limitations are possible due to the used cable type -

Net weight 1.01 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_R-AR3C (assembly instructions) and the customer specific document CS_R-AR3C (Crimping specifications).

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 reel 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 manufacture when stored according to the recommended storage condition.

Product handling

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

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

Fakra R3C –Right-Angle terminal Cable type RTK (3.2/50Ω)



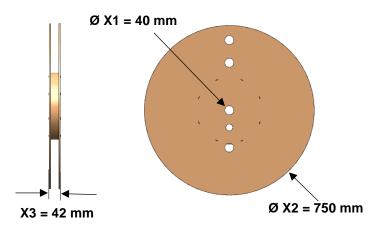
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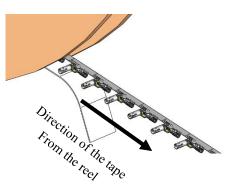
TECHNICAL DATA SHEET

Packaging

Primary packaging: cardboard reel

- Reel weight ≈ 4.8 kg
- Number of pieces by reel: 2000 ± 2%. It is possible to have a maximum of 5 missing parts consecutively





Secondary packaging: pallet

- Size (WxLxH): 80x80x90 cm
- Weight ≈ 89kg
- 1 pallet contains 15 connector Cardboard reels
- Number of pieces per pallet = 30000 ±2%pcs



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