

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

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Cable type RG174 (2.6/50)

R299.197.300



TECHNICAL DATA SHEET

Interface

According to ISO 20860-1

Application

This terminal has to be assembled with the right components (ferrule & housing) to reach ISO 20860 performances.

Refer to AI_HFR3C to get the corresponding P/N.

Refer to **CS_HFR3C** for the crimping instructions.

Electrical Characteristics

Impedance	50 Ω
Frequency	0-6 GHz
VSWR	≥ 15.6 dB to 2 GHz
	≥ 14 dB to 4 GHz
	≥ 12 dB to 6 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
	3-4 GHz <0.35 dB
Insulation resistance	≥ 1 000 MΩ before, and ≥ 500 MΩ after strain
Center contact & Outer contact resistance	\leq 5 m Ω before mating
Outer contact resistance	\leq 40 m Ω after 25 matings
RF Leakage	≥ 55 dB to 1 GHz
	≥ 45 dB to 3 GHz
	≥ 42.5 dB to 4 GHz

Mechanical characteristics

Mating cycles	≥ 25
Engagement force	≤ 25N
Inner connector retention	≥ 25N according IEC 60352-2
Cable retention	≥ 100N according ISO 20860-1

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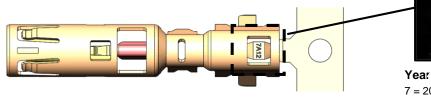
TECHNICAL DATA SHEET

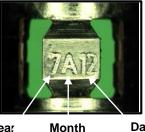
Environmental tests

Net Weight	0.60g
Suitable cables	2.6/50Ω
Operating temperature	-40 /+105 °C
RoHS	Compliant
Dry heat	According to ISO 20860-2
Temperature humidity cycling	According to ISO 20860-2
Thermal shocks	According to ISO 20860-2
Mechanical shocks / vibrations	According to ISO 20860-2

Laser marking

The Assembly date (Year/Month/Day) is laser marked on each terminal The marking is performed on the latch of the jacket crimping area.





 Year
 Month
 Day

 7 = 2017
 A = January
 01

 8 = 2018
 B = February
 02

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 - Fakra HFR3C** (assembly instructions) and the customer specific document **CS - Fakra HFR3C** (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.

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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 cables 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.

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Packaging

Primary packaging Cardboard reel

- Reel Weight ≈ 4.6 kg
- Number of pieces by reel: $3800 \pm 2\%$. It is possible to have a maximum of 5 missing parts consecutively

