INTRODUCTION

The new Radiall N series has been developed using the latest advances in connector design. These connectors are easy-to-use, highly reliable, innovative and are designed to meet the needs of the Telecommunications market. The complete series features the following main news:
- extensive range, with optimized piece parts design, including full crimp models
- upgraded cross-knurled coupling nut allowing for better manual tightening
- standard plating finish: BBR (Bright Bronze Radiall) = high performance non magnetic alloy.

• A WIDE STANDARD RANGE
More than 75 new models: receptacles, cable connectors, COAXI-KIT models, and adapters (including Push-on interface)...
A proven technology for one of the most popular connector design in the world.

• MANY FULL CRIMP MODELS
A fast and reliable attachment system that can be easily achieved in a field environment, with minimum easy-to-use tooling (including models for 2 and 2.6 mm dia cables). All our full crimp connectors are single piece body.

• LOW INTERMODULATION CONNECTORS
Radiall maintains extensive knowledge in this field and has developed N series connectors that are specially designed for base stations of radiotelephone digital cellular networks where the elimination of intermodulation products is of the utmost importance:
- optimized for 900 - 1800 MHz bands (and able to work up to 11 GHz like the standard models)
- $\text{IMP}_3$ performance $= -110 \text{ dBm} (-153 \text{ dBc})$
- new models for corrugated and low loss flexible cables
- high performance non magnetic materials and platings (silver and BBR)
- new 6 flats coupling nut (18 mm), allowing high coupling torque (170 Ncm) thanks to torque wrench.
- non slotted outer contact.
**INTRODUCTION**

- **VERY LOW INTERMODULATION CABLE ASSEMBLIES**
  For severe intermodulation conditions, we propose a range of low intermodulation cable assemblies $\text{IMP}_3 \leq -125 \text{ dBm}$ (see p. 40). For IM sensitive applications.

- **COMPLETE COAXI-KIT RANGE**
  (see p. 25)
  This new product family offers a complete choice of heads and tips. The combination of a reduced number of P/N allows to obtain:
  - either straight or right-angle plugs (6 flat nut), flange and bulkhead jacks
  - either crimp or clamp attachment types
  - For flexible cable 5 S, 5 D, 10 S, 11 D
  - For corrugated cable 1/4", 3/8", 1/2"

- **CUSTOM MODELS**
  Designed to fulfill customer requirements according to the N series standard. Radiall fully masterizes the complete designing of custom connectors (example shown: straight plug flange type).

New Radiall N series benefits from a complete line of accessories, such as:
- adapters (in-series and between series), tees, caps and easy-to-use complete range of tooling.

Radiall also proposes a complete range of MICROWAVE COMPONENTS: TERMINATIONS, ATTENUATORS, COUPLERS, etc. - all designed around the N and 7/16 series interface.

For further details, please read our:
- INTERMODULATION APPLICATION GUIDE (*D1 032 DE*)
- BBR PLATING APPLICATION GUIDE (*D1 030 DE*)

**IMPORTANT**: the 50 $\Omega$ and the 75 $\Omega$ connectors are **NOT INTERMATEABLE**, under pain of interface destruction.