



Radial VanSystem: Heavy Duty Connectors

Since 1985 Van-System manufactures threaded (CVS) and bayonet (CVB) connectors derived from Mil C 5015 specs. The bayonet locking coupling system is extremely resistant to vibrations and shocks, thanks 3 ramps machined on the external side of the receptacle connector and 3 stainless steel studs mounted **inside the plug connector's coupling nut**.

The wide range of shell sizes and contacts arrangements offers a reliable solution to any connection requirement.

These connectors are particularly suitable for applications in the rail transportation field.

It is possible to apply various changes to the series concerning:

- **material and finish of the connector components**
- **inserts with customised arrangements**
- **special contacts**
- **shells of plug connectors with rubber jacketed**
- wide range of back shells and strain relief options for any cable requirement.

They are available in 12 different shell sizes: 10SL - 12S – 14S – 16S – 16 – 18 – 20 – 22 – 24 – 28 – 32 – 36 – 40 with more than 150 insert arrangements (up to 201 No. of contact) with a maximum current up to 245A (operating current up to 150A). They are manufactured with 4 synthetic, highly insulated, rubber compounds.

RF GVJ series have completed the bayonet range with oversize version, more robust and reliable features obtained by the following modifications: bigger shell thicknesses to guarantee resistance against impact and harsh environment; five key polarization systems, increased dimension to install insulators with bigger number of contacts or bigger contact size.

The new bayonet KVBS series is derived from the standard ones, in this new series the insert is in thermoplastic resin.

The most important advantages are the simpler and faster cable assembly, when mated guarantee a better sealing and creepage distance between the contacts.

Besides connectors with screw or bayonet coupling, Van System designs and manufactures non-standard products for special applications (Railways, Atex Environment and Automation).

- GM modular connectors are designed for accepting modules for many different applications: Ethernet and data transmission, Coaxial connections, Fibre optic, Power cables, Signals up to 14 wires.
- EVBS-C7 bayonet connector for Ethernet category 7A is vibration and shock resistant. EVBS-C7 is the definitive alternative for Ethernet static interconnections inside railways vehicles.
- PWBS Single pole bayonet connector (Size 40 or 32 shells) has been developed for motor connection in Railway application up to 1000A.
- CP rectangular power connectors 3, 4 or 5 poles, has been studied for motor to vehicle connection in Railway application.

- CP Power Box has been proposed for high power connection and derivation. The power entry is made by three feeding cables, the derived connectors could be customized with two connectors or more.

Since 2015 Van-System is a Radiall company, a global leader in the design, development and manufacturing of innovative interconnect solutions.

In conclusion, Van-System, in collaboration with Radiall – France, can tailor the best connection solutions.

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About Radiall

Radiall is a global manufacturer of leading-edge interconnect solutions. The company offers an extensive range of interconnect components for high reliability electronic applications. Radiall has sales offices and subsidiaries throughout the world. With HQ located in France, the company realizes more than 85% of its revenue out of France. Radiall has R&D in the U.S., Europe and China, along with manufacturing facilities strategically located in the U.S., Mexico, India and China. For more information: radiall.com

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