



The Perfect Connection

RF - MICROWAVE CO-AXIAL
CONNECTORS & CABLE ASSEMBLIES
SMATV - CATV ACCESSORIES
ANTENNA PARTS, SURGE ARRESTORS



Top secret behind every wireless network

WELTECH ELECTRONIC
www.avonconnectors.com

Weltech Electronics & Group Companies have been serving the industry and customers with its quality products and promising services since last 40 years. Where quality is the objective & principle and **Weltequality** is what our customers give a better idea about.

Weltech Electronics believes in "Changing Environments, Changing Requirements", and today when the world is getting smaller and closer, Weltech Electronics has a role to play as a Perfect Connector. Today our products' usage is not limited to any one single industry but the scope is widened to multi-industry-utility.

To mention a few, AVON products like Connectors, Audio-Video, CATV-MATV Accessories & Components are used in Satellite & Cable TV, Consumer Electronics, Telecom, Control & Instrumentation Electronics. Besides, we also cater to Automotive, Electrical & Medical, Instruments & Industrial equipment, Aerospace & Military fields and so on.. The wide range of AVON Connectors includes Audio-Video Parts, Jacks, Electromechanical Components, Plugs & Sockets, RF/Microwave Co-axial Connectors. Receptacles & Adapters such as PAL, F, RCA, UHF, Mini UHF, N, BNC, TNC, SMA, SMB, FME (SAP), Fiber Optic Connectors & Adapters, Splices, Mobile Antenna Accessories, Cable Assemblies, Test Probes, SMATV-CATV Passives & Accessories such as Splitters, Tap-Offs, Dir. Couplers, Attenuators, Drop Connector, Terminators, Equalizers, Power Dividers, Antenna/Cable Switches, etc.

Product profile explained hereunder in brief. The Products we offer are not limited to this e-Catalog and we welcome any type of specific requirements from our valued client / OEMs for **the perfect connection**.

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BNC connectors are small, lightweight, weatherproof miniature connectors that are the most popular connector series used in a variety of RF applications. The two stud bayonet coupling system of the BNC yields an easy-to-use, quick connecting/disconnecting device that accounts for the BNC's popularity. These connectors are manufactured to MIL-PRF-39012 requirements and are typically used in applications operating up to 4 GHz.

BNC connectors are used in data networking as well as video, audio and test equipment application. Video applications such as security systems use 75 versions to match the standard system impedance.

TNC connectors are miniature connectors that are similar to the BNC series, but use a threaded coupling arrangement. The stability of the threaded coupling allows the connector to be used up to 11 GHz and provides improved resistance to adverse environments including vibration, moisture, corrosion and thermal variations. These connectors are manufactured to MIL-PRF-39012 requirements.



Typical applications include mobile communications, avionics and antenna ports for wireless base units. Reverse Polarity designs available for FCC Part 15.



N connectors are classified as miniature, but are one of the largest in use. Properly designed Type N connectors provide low loss interconnects to 18 GHz. The screw type coupling combined with the larger size, i.e. RG213, provides a robust design and proper fit for some of the larger coaxial cables. Applications include broadcast electronics, aerospace, telecommunication base stations and the passive/active components used in base stations.

SMA connectors are high performance subminiature connectors for microwave frequencies. The threaded coupling insures uniform contact of the outer conductors, which enables the SMA to minimize reflections and attenuation at higher frequencies while providing a high degree of mechanical strength and durability.

Typical applications for SMA connectors include microwave active and passive components, instrumentation, avionics, and other high-end radio electronics.



NOTE :- Reverse Polarity Connectors are available on special order.

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UHF connectors are general purpose units developed for use in low frequency systems from 0.6 - 300 MHz. Invented for use in the radio industry, UHF is an acronym for Ultra High Frequency because at the time 300 MHz was considered high frequency. UHF connectors feature a threaded coupling. Because these connectors are low-cost, the impedance is variable.

Mini-UHF is a miniature version of the UHF connectors. Mini-UHF connectors are designed for use as coaxial interconnection in cell phones, automotive systems, and similar applications where size, weight, and cost factors are critical.

FME connectors are used for mobile antenna applications and can be adapted for either UHF, Mini- UHF, TNC, BNC and N connector interfaces using BSA adapters.



PAL (IEC) connectors are push pull interface style which provides a rapid connection. This connector range is suitable for the standard ranges of flexible cables and is also available in panel / chassis mount versions. The characteristic impedance of the PAL coaxial connectors is 75 ohm.



RCA connectors

are push pull interface style which provides a rapid connection. This connector range is suitable for the standard ranges of flexible cables and is also available in panel / chassis mount versions. The characteristic impedance of the RCA coaxial connectors is 75 ohm. These connectors are in widely used for Audio, Video, CATV, CCTV and PA system.



F connector is a common means of connecting television signals. It is a type of coaxial RF connector commonly used for "over the air" terrestrial television, cable television and universally for satellite television and cable modems, usually with RG- 6/U, -11 cable or, in older installations, with RG-59/U cable. The F connector is inexpensive, yet has good 75 Ω impedance match up to 1 GHz and has usable bandwidth up to several GHz.

F compression connectors

RG59/6 are developed for the perfect connection between aperture and equipments of CATV / BRAODBAND applications according to the standards of SCTE and IEC for total digital network. The Lowest transfer lose in AVON compression connectors is extremely vital for the screening efficiency for the return path band (5 - 30 MHz) applications.



Between-Series Adapters provide transitions between popular coaxial connectors. The design of these adapters includes a minimum length consistent with good electrical performance. Their small size and low VSWR permit a wide range of applications.



N Surge Arrestors is having broadband performance from 0-2500 MHz and excellent electrical characteristics. Replaceable Gas Tube Arrestors are easy to install and feature a DC-pass capability through the centre conductor to the active tower top electronics. The unit's removable cap makes periodic maintenance fast and easy.

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CATV SPLITTERS / DIR. COUPLERS (5-860 MHz) (5-1000 MHz)

- Ideally suited for easy installation in indoor / outdoor use in MATV / CATV distribution network.
- Epoxy powder coated die-cast housing and glass epoxy PCB for better weather protection.
- High quality nickel plated "F" connectors with gold plated centre contact for superior conductivity.
- Used world class components for optimum result at higher frequency
- Proper isolation and return loss specifications for better transmission of digital signals.
- 5 Amps. power passing design through choke coil.



Common Specification :

75 ohms input / output impedance. -- 5 Amps. power-passing design through choke coil. -- VSWR : < 2



RF - MICROWAVE ATTENUATOR

Attenuators are used in a wide variety of applications and can satisfy almost any requirement where a reduction in power is needed. Attenuators are used to extend the dynamic range of devices such as power meters and amplifiers, reduce signal levels to detectors, match circuits and are used daily in lab applications to aid in product design.

The reliable performance and competitive pricing of AVON fixed attenuators have made them the choice for requirements including base stations, OEM equipment, and general laboratory use.

AVON attenuators are available to order with special attenuation values, power ratings, connector series, and connector polarities to meet your exact specifications. **Available : 1,2,310, 12, 15, 20, 30 dB** - Reverse Polarity Attenuators are available on special order.

CO-AXIAL MICROWAVE CABLE ASSEMBLY

WELTECH ELECTRONICS is an experienced source for high quality, high performance RF - Microwave coaxial and AUDIO VIDEO cable assemblies that are used in commercial, industrial, medical, and military applications. Cable styles include: Corrugated, Flexible, Hand Formable, LMR, Low Loss, RG, and Semi-rigid. In addition to offering quick turn-around and great pricing on all standard and custom cable assemblies, they offer application engineering support.



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