

## CONTROL & POWER CONNECTORS

### ASGTC



ASGTC is an environmental circular reverse bayonet coupling connector. A self-locking system guarantees a quick mating & unmating. Designed for Railway and Mass Transit industry, ASGTC high performance products are made up of rugged sealed connectors with waterproof IP67 rated, robust shells for high temperature, vibrations & shocks resistance.

*Inserts available in plastic.  
Contacts available in gold and silver plating.  
Zinc alloy plating available.*

### HVGTC



HVGTC is an environmental cylindrical reverse bayonet coupling connector with self-locking system, which guarantees a fast locking and unlocking. Designed for Railway and Mass Transit industry, HV GTC family has a wide range of rugged waterproof IP67 rated sealed connectors up to 700A and 3000V max high-voltage. Their robust shells ensure against high temperature, vibrations & shocks.

*Inserts available in plastic.  
Zinc alloy plating available.  
High current contacts with Amphenol Radsok technology.*

### ASGL



ASGL is a circular bayonet lock connector, which is principally used for RMT and heavy-duty applications. This product ensures a fast and precise coupling of the receptacle and the plug. This rugged sealed connector with waterproof IP67 rated can withstands exposure to moisture, oil, vibrations & shocks.

*There are various types of coding for alternate positioning.*

### MRC



MRC is a modular rectangular connector made up of rugged aluminium frames, plastic modules with many possible insert arrangements and crimping contacts for high current (power) and low current (signal). MRC's self-locking system has an anti-vibration design suitable for applications in trains such as the electrical box.

### RFM



RFM is a modular rectangular rack and panel connector. This product offers a multiple mix & match combinations of signal and power contact forms from 8 to 25A per contact. There are many use cases for RFM connectors such as railway racks, shelters, cabinets, power racks, modular equipment and automatic assembly machines.

*Compliant with NFF 61-032.*

### ASVG



ASVG is an enhanced version of the VG95234 standard connector. It remains completely interchangeable with VG95234: MS5015 reverse bayonet connectors. The insulator is retained into the plug or receptacle shell by a metallic retaining ring, which can be removed with a small screwdriver. Once removed, users can define the insulator orientation.

### ASPRC



ASPRC is a connector specially designed for data transmission. With guide pins and self-locking system, ASPRC has 52 pins #20 contact, and a rated current of 7.5A max. This high performance connector is resistant to vibrations & shocks.

*Shells and inserts are available in plastic.  
Widely used in ATP (Automatic Train Protection) system for data transmission.*

### ASTP



ASTP is a rectangular connector with a lever mechanism. Its metal outer shell provides a strong resistance against vibrations & shocks. ASTP can be widely used for rail-road-related vehicles, communication equipment and industrial equipment.

*Two kinds of contact: crimp type contacts and through-hole type contacts (pin side only for receptacle) for board connection.*

### XCEL POWER | MATE



Xcel power | Mate ®, Auto-latch mating mechanism provides fast and reliable connection with audible and tactile feedback to confirm that the connector pairs are fully engaged. Compared to normal push-pull connectors, Xcel power | Mate ®'s sliding ring is sprung automatically into the locked position. Disconnection is also fast, with holding the sliding ring to pull. Xcel power | Mate ® is a low cost plastic connector without shielding.

### ASTE



ASTE connector is used to provide data transfer for ATP system of Electric Locomotive. Easy to install, this connector with guiding pins/polarization and self-locking system was specially designed to resist against vibrations & shocks.

### ASGP



ASGP is a ground power connector specially designed for rail vehicles receiving maintenance in the garage repair station when high voltage circuit power is cut off. This IP67 rated connector has 4pcs of 18mm Radsok for power and 6pcs of 3.6mm spring wire sockets for signal. ASGP offers a wide range of current up to 500A and its rated voltage is 500V.

### SIM MODULES



SIM series offers a wide range of rectangular interconnect modules. Its environmental performances make SIM series resistant to harsh environments such as high density, high temperature or humidity conditions.

*A large number of contact arrangements and different sizes are available.  
Compliant with EN 4165 (European specification).*

### HVSA



HVSA is a quick connection connector, small in size, light in weight and low cost. Its reliable locking system is easy to operate. HVSA is suitable for limited fixing space and tight budget.

### 1750 MODULES



1750 MODULES offer many contacts layouts (even mixed):

- From 6 to 36 contacts, sizes 10 to 22
- 26 to 8 AWG for cable sections from 0,15 to 8,98 mm<sup>2</sup>
- Sealing assured by a patented over-molded grommet
- In & out the rail without special tools nor adjacent modules removing
- Contacts: NF/UTE L53-105 - NAS 1749 & EN 3155-016
- Modules: NF/UTE C 93-462.

### ECTA 133



ECTA series consists of push-pull locking connectors that ensure a quick mating and unmating. IP67 rated, these products are available in two versions: full plastic or metal.

The metal version ECTA 133 is suitable for heavy-duty applications such as industrial, robotic and transportation equipment.

*Crimp or solder / current from 5 to 125A / 8 shell sizes / Signal and Power contacts / 16 contacts arrangements.*

### ECTA 544



The low cost plastic version ECTA 544 is very easy to assemble. IP67 rated.

### MS5015



Amphenol MS connectors meet the latest performance requirements of MIL-C-5015. These connectors represent well-proven electrical capability at an acceptable cost for most equipment in situations where durability is valuable.

*Simplicity in design: threaded couplings and single key / keyway polarization.*

### D-SUB



D-sub is a standard connector. Side entry and top entry are both available. *EMI/RFI shielding / Sizes: 9, 15, 25 / Foil and braided cable feasible / Compliant with VDE 0871, FCC 20780 & 89/336/EU / Screw lock UNC 4-40 or M3*

### EMP



EMP is an Electrical Motor Power connector, which provides a high voltage and a heavy current connection for RMT application. This IP67 rated rectangular connector is made up of high strength stainless steel screws suitable for very harsh environment applications. EMP series offers a wide range of current up to 500A and 3000V max high voltage. Shielding is ensured by spring fingers on the plug shell. Various type of coding and shielding / un-shielding shells are available.

*EMP products are compliant with EN 50124 and NFF61.*

### AMHTC



AMHTC is a high-tension connector series specially designed for railway vehicle power distribution systems. This product provides safety and reliability under the most severe operating conditions. The AMHTC series connectors allow the user to connect electrical equipment up to 750A with ultimate safety.

*High degree of insulation.  
Oil, acids and water-resistant.*

### RNJ



RNJ series is designed for rack & panel connection and provides correction and adjustment to misalignment problems during mating.

For Power application:  
Arrangement 23-01 can accommodate signal and power contacts.  
Arrangement 25-1A can accommodate 4 contacts of 13A or 4 contacts of 100A.

*7 shell sizes available up to 128 contacts.  
Derived from MIL STD 38999.  
Large number of inserts available to accommodate signal and power contacts.*

### ADGC



ADGC reverse bayonet connector provides a fast and reliable connection with visible, audible and tactile feedback to confirm that the connector pairs are fully engaged. Thanks to its robustness, ADGC is perfectly suitable for Railway and Mass Transit industry and has been already selected for subway applications. ADGC connectors withstand to moisture, oil and vibrations.

*Current from 13A to 350A.  
6 arrangements up to 106 contacts.*

### HEAVY | MATE

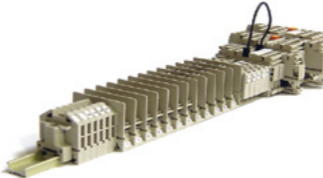


Heavy I Mate is a heavy-duty modular rectangular connector designed for power and signal transmissions. With EMC shielding, locking system and different insert arrangements, Heavy I Mate connectors are especially suitable for indoor & outdoor industrial applications. A wide range of current ratings up to 250A per contact and voltages up to 1000V are available.

VDE, UL, CSA approvals / 3 to 280 poles per connector / From IP65 to IP68 / Good price-quality ratio.

## TERMINAL BLOCKS

### BJC



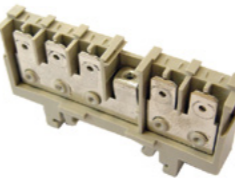
BJC, spring clamps terminal block  
The spring clamp connection technic is nowadays widely used, and Amphenol owns a whole range of innovative & high quality spring clamps terminal blocks, offering to the user the suitable solutions for railways applications with 0.5 to 6 s.q.mm flexible stranded or solid rated cross section cables.

### BJT



BJT, Stud type terminal block  
This type of junction, which uses pre-insulated conductions, is usually preferred for large cross section cables. The contact surface given by this type of connector provides the minimum contact resistance and eliminates the risk of over heating. These products exist in different diameter from M4 to M12 in order to provide high-pressure contacts.

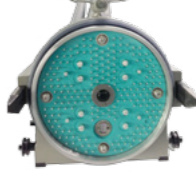
### BJL



BJL, Fast on type terminal block  
As the clip type connection is widely used, Amphenol produce a whole range of push on type terminal blocks with 0.25 x 0.031 in tab blades. The nominal current can only be guaranteed when the clip is pre-insulated or equipped with additional insulation such as thermo-retractable sheath.

## CUSTOMISED INTERVEHICLE JUMPERS

### JUMPER



This jumper provides connection for High Speed EMU (350km/h) in China. It is made up of 8x100A power contacts, 4x50A power contacts, 184x5A signal contacts and one EB Module with 8 channels Multiple Fiber Optic. This jumper is designed to be coupled and uncoupled by a mechanical locking lever system, which will engage and mate the connectors after the vehicle mechanical coupler has been fully locked in position. IP67 rated, the locking system of this jumper will ensure full sealing of the connectors. APCD SZ is able to design and manufacture highly reliable customised inter-vehicle products.

## NETWORK CONNECTORS

### RJF TV



RJF TV allows users to use an Ethernet Class D/Cat. 5e connection for 10Base-T, 100Base-TX or 1000 Base-T networks in harsh environments. A metallic plug protects these connectors from shocks, dust and fluids.

*Patented RJStop system.  
No hazardous cabling in-field conditions.*

### ASRC-M



ASRC-M is a heavy-duty modular rectangular connector. This connector is made up of multiple-contacts and rugged shell & frames in aluminium. ASRC-M is a high performance connector, with polarization/guiding pins, and vibrations & shocks resistance.

*Many possible insert arrangements.  
With shielding functions.*

### ASGTC-Quadrax



ASGTC-Quadrax is a special circular bayonet lock connector for data line transmission in RMT application. Its self-locking system was specially designed to support heavy-duty applications. ASGTC-Quadrax products are waterproof IP67 rated. A copper body protects the Q-contacts inside; moreover a 360° shielding is ensured by multipoint band in female contact.

*Two types of Q-contact are available:  
#16 pins (Q4) and #20 pins (Q8), which provides more data transfer (Ethernet, MVB, WTB and Video lines).*

### RJF



RJF Field series provides innovative connection systems for harsh environment Ethernet applications. Able to fit with any standard RJ45, RJF Field series connectors transform USB cable sets into environmental connectors.

*RJ45 Field / RJ11 Field / RJ Switch / USB Field / FireWire Field / LC Field / MTRJ field*

### MTRJ/LC FIELD



MTRJ/LC Field series connectors transform a standard MTRJ or LC Fiber Optics made up of lead into a fiber-optic based Ethernet link suitable for harsh environments. These connectors derive from MIL DTL 38999 series.

*IP67 / Instant termination (no tool required) / MTRJ version: 1, 2, 3, 4 optical ways / LC version: 2 ways / Both MTRJ and LC can be single mode or multimode.*

### MEGA BIT



Mega Bit is suitable for Ethernet Cat. 5e. *Number of contacts: 2 x 4 / #16 pins and #20 pins / current from 5A to 10A (Max) / rate voltage: 50V / data transfert rate: 1Gbps*

### GIGA BIT



Giga Bit is suitable for Ethernet Cat. 6A. *Number of contacts: 8 / #20 pins / current: 5A (Max) / rate voltage: 50V / data transfert rate: 10Gbps*

### USB FIELD



USB Field series connectors transform a standard USB cord set into a rugged and reliable connector suitable for harsh environments.

*IP67.  
Vibrations & Shocks resistant.  
EMI/RFI shielding. Metal shell and backshell.  
Instant termination, no tool required.*

MOTORS & BRAKES

ASGTC  
HVGTC  
ASGP  
EMP  
ECTA 133  
AMHTC

RNJ  
1750 MODULES  
HEAVY I MATE  
BJC  
BJT  
BJL

DRIVERS' CABIN

ASGTC  
ASGL  
ASVG  
ECTA133  
PT  
ADGC  
RJF TV

1750 MODULES  
MTRJ/LC FIELD  
RJF  
USB FIELD  
RJF  
BJC  
BJT  
BJL

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ASGTC  
ASPR  
ASTP  
SIM MODULES  
D-SUB

1750 MODULES  
HEAVY I MATE  
BJC  
BJT  
BJL

INFORMATION TO  
PASSENGERS & LIGHTING

ASGTC  
ASGL  
ASRC-M  
ECTA544  
D-SUB

1750 MODULES  
MTRJ/LC FIELD  
RJF TV  
USB FIELD  
RJF  
BJC/BJT/BJL

MONITORING &  
TRACKING UNITS

ASGTC  
ASGTC Q  
ASGL  
MRC  
RFM  
ASVG  
ASTP  
ASTE  
ADGC

D-SUB  
1750 MODULES  
MTRJ/LC FIELD  
RJF TV  
MEGA BIT  
GIGA BIT  
USB FIELD  
RJF  
BJC/BJT/BJL

THEY TRUST US



Notes:

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Amphenol PCD Shenzhen reserves the right to clarify this catalog.

COMPANY PROFILE

Amphenol PCD Shenzhen Co., Ltd. is part of the Amphenol Industrial Products Group. Amphenol is one of the world's leading manufacturers of interconnect products. With world-class engineering and manufacturing capabilities, we design, manufacture and deliver interconnect cables assemblies, connectors and complete customized interconnect solutions for the industrial, railway and hybrid electrical vehicle markets.