

SOLUTIONS
CONNECTOR - POWER SUPPLY - ASSEMBLY

AUTOMATION
& RAILWAY



**SOLUTIONS
DESIGNED AROUND
YOUR BUSINESS**

NICE TO MEET YOU

We are A&C Solutions, the connector & cable harness distribution specialist that offers you a tailored solution to any industrial application. We complement our offer with high end power supply solutions and we manage your stock on request.

As a full service provider, we are ready to support you into the new industry era!

Do you want to get to know us better?



'A connector or power supply solution that matches, we don't settle for anything less'

THIS IS HOW WE WORK

'We strongly believe that where focus goes, business grows'



YOU'RE OUR CENTERPIECE

We don't sell products, we sell solutions. A solution only becomes one when it fully meets your requirements. It doesn't matter whether you are looking for a single connector or a fully customized cable set. We are there to help you find the right match at the best price available in the market.



AUTOMATION & RAILWAY FOCUS

We can only add value to your business when we step into your world and learn to understand it. Therefore, we have chosen to align our knowledge and range of connector & power supply solutions with targeted markets like Automation & Railway.



COMPLEMENTARY OFFER

We believe in niche brands that complement each other and make A&C Solutions a more complete and stronger partner for our customers. Each of our brands brings something to the table that makes it stand out of the crowd.



A SPECIALIST AT YOUR SERVICE

We have a clear focus on connector & power supply solutions. In both fields, we have built a strong expertise that helps us to advise you the best solution for your application.



LONGTERM PARTNERSHIPS

We are a partnership builder who is convinced that success can only come from a long term focus. This is how we approach our suppliers, assembly partners and above all, our customers.



YOUR STOCK MANAGER

Our stock management services are designed to support your ongoing production process. We deliver a large part of the conventional connector & power supply solutions directly from stock within 24 hours. And we keep designated customer stock on demand or based on periodic forecast information.

THIS IS WHY OUR CUSTOMERS WORK WITH US

SOURCE: ANNUAL CUSTOMER SURVEY



**CUSTOMER
FRIENDLINESS**



**RELIABLE
PARTNER**



**QUICK
RESPONSE**



**TAILOR MADE
SOLUTIONS**



**DELIVERY
RELIABILITY**



**QUALITY MINDED
ISO 9001:2015**



HOW CAN WE HELP YOUR MACHINERY WORK SMARTER?

Making factories smarter is what the new industry era is all about. We all have one goal in mind: creating a more efficient production chain with the resources and facilities available. To know which buttons to push, we need interactive machinery exchanging data on a continuous basis.

There is more to Industry 4.0

To establish the very high level of interaction within Industry 4.0, you require reliable and efficient power supplies and hybrid connectors that simultaneously transmit power and data at high speed. At A&C Solutions we feel the scope of Industry 4.0 reaches much further than just that. To optimise the returns of your machinery, it is also important to work with connector and power supply solutions that deliver you extra benefits. That's why A&C Solutions offers a wide range of smart connectors and power supplies that also help you save space, installation time and money.

Our passion? The right solution for your business

At A&C Solutions we are passionate about connectors and power supplies. Finding the right solution for each customer's requirements is what makes us tick. As a specialist we don't settle for anything less.

Jan Van Dijck & Maxim De Smet



SOLUTIONS

**HOW CAN WE
SUPPORT YOUR
BUSINESS?**

CONNECTORS

RECTANGULAR



ILME



PROVERTHA



SHIELD / ATAM

CIRCULAR



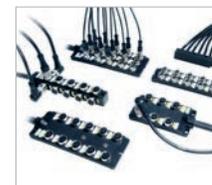
HUMMEL



PROVERTHA



BINDER

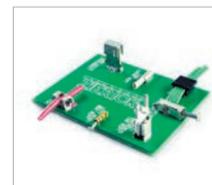


SHIELD



TECHNO

PCB



ZIERICK



JST

POWER SUPPLIES



DELTA



NEXTYS



SPECIAL CABLES



CABLE ASSEMBLIES

TAILOR MADE SOLUTIONS

RAILWAY



ILME



PROVERTHA



TECHNO

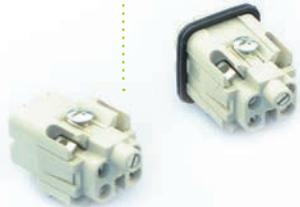


HUMMEL

RECTANGULAR CONNECTORS



CKF screw version



CKSH SQUICH® version



CKSH spring terminal version



Great variety of insert types

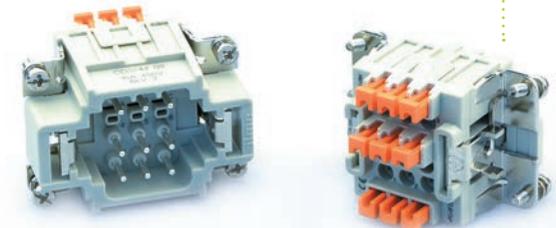
CK/CKS insert with 3 to 4 pole + PE contacts offers screw, spring terminal or SQUICH® connection possibilities. For each type of insert, coding options are available.



Saves time

CDS SQUICH® high density inserts

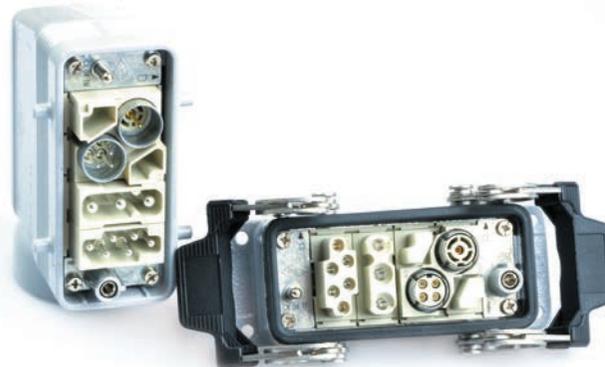
The Ilme SQUICH® inserts use a spring clamp terminal that saves up to 50% on installation time. You just plug in the wires and lock them manually by pushing a button. The new high density SQUICH® inserts additionally create up to 70% more connections on the same space. Fast & efficient!



Compact

Full flexibility with the Ilme MIXO series

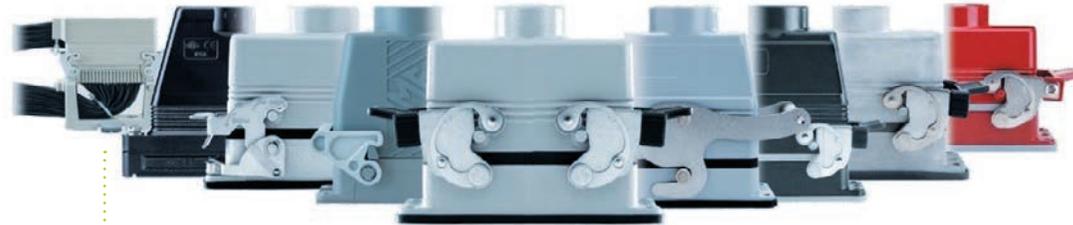
The MIXO series is a system of modular units for special applications that use the traditional ILME enclosures. Each enclosure can house different types of connections.



ILME



RECTANGULAR CONNECTORS



Ilme housing range

The right housing for any type of environment.



Impact resistant

E-Xtreme

The Ilme E-Xtreme housing series is made of die-cast aluminium with titanium plasma coating to resist high corrosive environments. The E-Xtreme achieves a resistance of 3000 hours in salt spray tests.



IP68 housing

The IP68 housing is made of corrosion-resistant aluminium die-casting, with powder coating and stainless steel hexagon head screw or bayonet locking mechanism.



T-type Hygienic

The Ilme plastic T-Type Hygienic housing offers F&B industry ultimate hygiene at an economical price.



JEI series

Mainstream series JEI offers an economical solution for non-aggressive environments.



Simplex housings

Ilme simplex housings are equipped with a hinged lid, which automatically shuts when pulling off the plug shell.

ILME

RECTANGULAR CONNECTORS

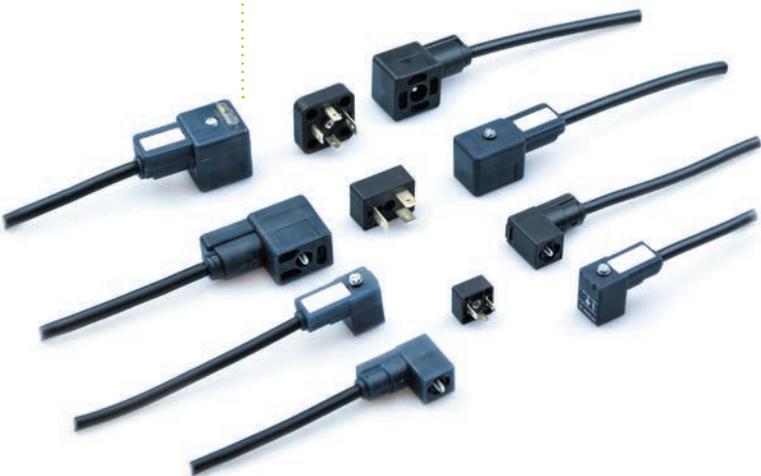


Electronic box for lighting information

The compact, weightless distribox is waterproof. It offers a high efficiency and low consumption.

Electrovalve connectors

Electrovalve connectors are available as cable entry version or with moulded cable with built in control circuits providing additional functions, e.g. LED visual indication, over voltage protection and rectification.



Magnetic switches

Magnetic switches with top or side assembly versions for applications that involve a cylinder.



SHIELD / ATAM



RECTANGULAR CONNECTORS



Bus connectors

Provertha offers a complete bus connector range with internal and external cable clamps for CAN-bus and Profibus networks.

EMI/RFI
360°



Quick Lock

Quick Lock is a push-pull system ensuring an easy, fast and secure locking of D-Sub cable connectors to its mating connector.



Multiple cable clamp and cable entry possibilities



Endless hood possibilities

The extensive range of D-Sub hood systems includes plastic, metalized or die-cast hoods with a 45°, 90°, 180° cable exit option.



D-Sub connectors

A complete range of high quality D-Sub connectors.



PROVERTHA

CIRCULAR CONNECTORS



M23 hybrid connector

This extraordinary hybrid connector allows for the simultaneous transmission of power, signals and Ethernet. It combines data transmission per CAT5e standards with high power processing up to 28A and 630V.

M12 power connector range

Combines compact design with high power transfer. All models are available in four different codings: K, L, S and T. There are four types of free assembly connector plugs which make this range suitable for many applications. Its metalized housing is EMC compatible and accommodates cables with a cable diameter up to 11 mm.



Twintus connectors

The Hummel Twintus perfectly responds to the increasing miniaturization in the drive technology. Despite its small dimensions (height 21mm, width 41mm) and a mounting flange of only 20 to 25mm, Twintus offers a high power density.

HUMMEL



CIRCULAR CONNECTORS



Circular moulded connector

Circular connector, moulded version, available as M16 and M23.

TWILOCK

TWILOCK is a quick-release fastening system for Series M16 and M23 circular plug-in connectors. With one simple click, just a slight twist, the plug-in system goes from "Open" to "Close" and locks.



M23 connector

M23 connector available as RJ45, fast Ethernet PoE, signal and power.



Conventional connector

Conventional connector available as M16, M23, M27 and M40 out of aluminum or stainless steel with a nickel plated surface.



M16 connector

M16 connector with angled panel mount.

HUMMEL

CIRCULAR CONNECTORS



Micronnect

Smallest IP68 screw connector with a cross section of 14mm and a maximum cable diameter of 8,3mm. Perfect to cover longer distances in outdoor projects.



Plug & socket connector

With a threaded locking nut and special designed gaskets, this plug & socket connector ensures a safe locking and a maximum protection of your application.



Piercing screws



Junction connector

Available as anti-condensation version.



In-line cable joiner

Available as anti-condensation version/moulded cable.

Plug & socket connector

Available as panel mount/moulded cable version.

New TH624 current distributor

Easy installation with the new plug & play current distributor. With customized cables made upfront, one can easily plug in everything without opening the junction box. Perfect for quick maintenance.



TECHNO



CIRCULAR CONNECTORS



M12 D-code connector



M12 B-code connector



Angled M12 D-code connector



High speed M12 X code connector

Smallest M12 A/B/D code connectors

Provertha offers the smallest M12 A,B and D code connectors for secure field connections in CAN-Bus, Profinet and Profibus applications. They guarantee a function-safe data transmission due to a special 360° EMI/RFI crimp flange system. M12 connectors enable a fast and fail-safe assembly in the field due to pre-mounted sub-assemblies.



Compared to D-coded M12 connectors the data transmission speed is increased by factor 100. (10 Gbit/s Ethernet). A special shielded design reduces crosstalk and signal coupling. The M12 X-coded devices are extremely compact and support the CAT6a specifications.



M12 gender changer

The M12 gender changer is available in versions for Industrial Ethernet, Profinet, DeviceNet/CAN bus and Profibus. You can choose between a B,D or A-coded version. The 360° shielding, the fully shielded housing and the twisted crimp contacts ensure interference-free data transfer and excellent EMC.

PROVERTHA

CIRCULAR CONNECTORS



M12 power cable connector

Field assembly cable connector with screw terminal provides K and L coding for power supply. It allows for a cable diameter of 8,13mm² and can be used with 12 A or 16 A per pin depending on the coding.



M12 A code F&B connector

M12 A-coded connector in an overmoulded design for applications in food, pharmaceutical and chemical industries. There are cable sets in all pole numbers (3-, 4-, 5-, 8- and 12-pole) with PP-overmould and PVC-cables available.

10 Gbps

M12 X code connectors

Binder has expanded its M12 X-coded product family with new receptacles, cordsets and feed-through connectors. The X-coded products meet CAT6a specifications with data transmission rates up to 10 Gbps. The M12 X-coded connectors have 8 contacts and conform to DIN IEC 61076-2-109.



M12



M8



M5

M5, M8 and M12 Sensor connectors

Binder sensor connectors are available as cable, panel-mount and flange connectors both in shielded and unshielded versions in all possible codes. They ensure rational and economic system wiring and can be flexibly configured.

BINDER



CIRCULAR CONNECTORS



HEC connector

The Harsh Environment Connector combines hybrid features with a tough character. It's resistant against climatic influences, industrial and chemical substances. The bayonet locking mechanism ensures a secure and fast locking.



Chemical resistant



MED series

Bayonet connector series in medical, home care and industrial devices for the easy detection of contamination. Cost-effective alternative for classic medical connectors in simple applications.



Medical

Micro push-pull connector

Micro push-pull connector series with a diameter of only 9,5 mm, IP 67 protected.



Power connectors

Popular power connector series available with solder-, screw- or crimp contacts. Also available in moulded version. VDE, SEV and UL-approved.

Snap-in connector

Snap-in connector series with a diameter of 11,5 or 16mm, IP67 protected.



BINDER

CIRCULAR CONNECTORS



M8/M12 connectors

M8 and M12 connectors are available with Atam in both screw and moulded version and can be provided upon request with different special cables.



7/8 inch middle power connectors

Available with shielded or unshielded cables with current ratings up to 12A, 600V. Customization possibilities for cable material, gender configuration and pole quantity.



Distriboxes

Shield offers various top and side mounting (spider) distribution boxes with M8 and/or M12 sockets. These space saving distriboxes are available in double or triple line and can include 2 up to 15 sockets with 1 to 3 signals each. On request LED signaling can be included.

SHIELD / ATAM

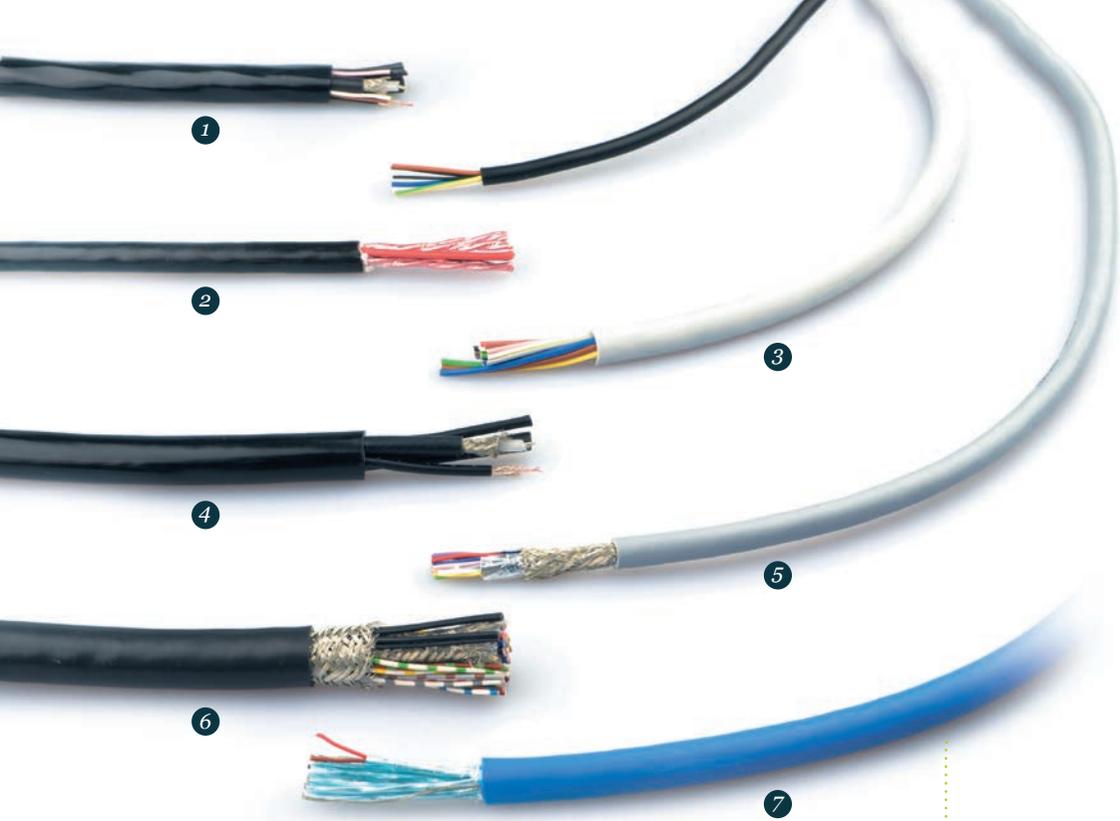


SPECIAL CABLES

A&C Solutions can also be your partner when it comes to your special cable needs. The range of special cable services go from simply printing the outer jacket with your company name to the complete assembly of a customized cable according to your requirements.

A&C Solutions manufactures hybrid cables of 0,05mm² to 10mm² with a maximum outside diameter of 30mm. For the insulation of your cable, you can choose from the following materials:

- All types of PVC: flame retardant, oil resistant etc.
- PE / PP / PPE / XL-PE
- TPE-E, ideal as chain cable or spiral cable
- TPE-V, mainly used for cables in the food industry and also medical industry
- PUR, also available in version flame retardant and low smoke zero Halogen



- 1 Hybrid cable with 6 data wires and RG 58 & RG 174
- 2 Twisted pairs, individually shielded together with power supply wires
- 3 Combination of different wire sizes
- 4 Coax cable with 6 x RG 174
- 5 Shielded, twisted pairs
- 6 Hybrid cable with different wire sizes, some are separately shielded
- 7 Twisted pairs, individually shielded

SPECIAL CABLES

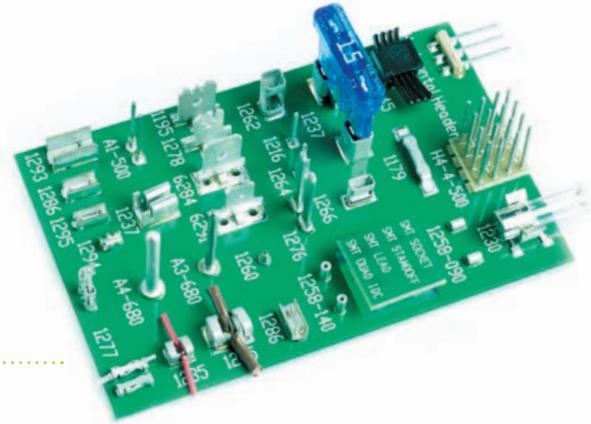
PCB CONNECTORS



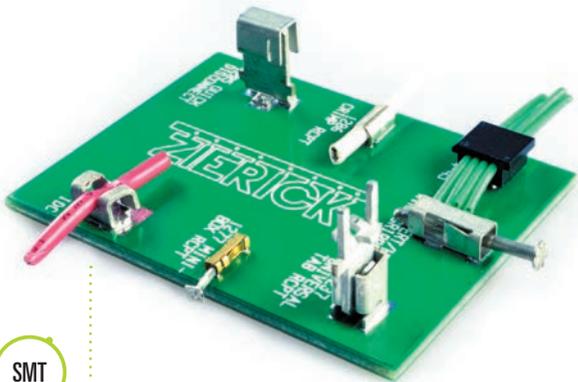
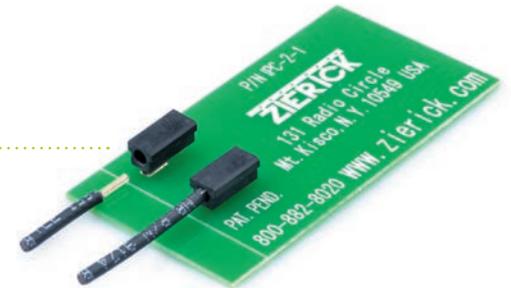
Wire gripper



SMT product range



Surface mount coax cable connector



Tab receptacles and surface mount IDC



Insulation piercing terminal



ZIERICK

POWER SUPPLIES



CliQ M DIN Rail Power Supply from 80 up to 480W, 1 Phase

- For your demanding applications
- High power density in corrosion resistant aluminum casing
- Power Boost of 150% up to 7 seconds
- DNV GL and ABS approvals for maritime applications
- Conformal coating on PCBAs to protect against common dust and chemical pollutants



Maritime



Lyte DIN Rail Power Supply from 80 up to 480W, 1 Phase

- For your industrial applications
- Compliance to SEMI F47 @200Vac
- Conformal coating on PCBAs to protect against common dust and chemical pollutants



Sync DIN Rail Power Supply from 15 up to 100W

- Available in 5, 12 and 24Vdc
- NEC Class 2 / Limited Power Source (LPS) certified



Double isolation



Chrome DIN Rail Power Supply up to 100W

- Available in 5, 12 and 24Vdc
- Can be installed in compact cabinets
- NEC Class 2 and Limited Power Source (LPS) approvals

DELTA PSU



POWER SUPPLIES



*Panel Mount
Power Supply*



*Open Frame
Power Supply*



- Wide range of models available (also with medical approvals)
- Choice between a premium quality level with Japanese capacitors and connectors or a standard quality level for cost competitive markets
- Industrial small footprints
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55022, Class B

DELTA PSU

POWER SUPPLIES



NPSM121 / 241 / 481: 1 Phase power supplies - High Compactness for Demanding Applications

- Smallest size in the market
- High power density, high efficiency
- Wide, adjustable output voltage range: 11,5...29Vdc and 23...56Vdc
- 150% overload capability



CPU control

NPS2400 Series: 2400W 3 Phases Multipurpose Digital DIN Rail Power Supply

- 3 phase AC + DC input configuration
- Models for 24/48/72/170Vdc dc output
- Rich auxiliary interface for remote measuring and control
- Multiple user user-settable parameters; integrated data logger and events counter
- Parallelable for power increase up to 4 units

NPSM 962-24: 1 Phase, Compact 960W Power Supply

- INPUT: 90...264Vac, 110...345Vdc
- 24/48/72/110V models
- Convection cooling
- Also available in 3 phase version



DCW20 – 20A Programmable COMBO DC UPS / DC-DC Converter

- CPU controlled, supports any voltage 12 to 55Vdc
- UPS mode: load voltage is independent on the battery voltage
- DC/DC converter mode: any IN/OUT combination user-settable
- Multiple battery chemistry: Lead-acid, Lithium, NiMH or Supercapacitors

NEF210 - 2 Channels Programmable DC Overcurrent Protector/ Protected Static Relay

- 10...31Vdc range, 2 INDEPENDENT Channels
- 2/4/6/10A programmable current thresholds
- Programmable time - current curves



RAILWAY CONNECTORS



IP68 housing

The IP68 housing is made of corrosion-resistant aluminum die-casting, with powder coating and stainless steel hexagon head screw or bayonet locking mechanism

E-Xtreme

The Ilme E-Xtreme housing series is made of die-cast aluminium with titanium plasma coating to resist high corrosive environments. The E-Xtreme achieves a resistance of 3000 hours in salt spray tests.

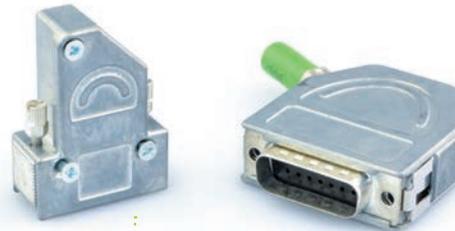


Salt spray tested

Plug & play M12 connector



Combined plug & play connector with external cable clamp version including crimp flange



Provertha 'Quick Mount' D-Sub die-cast hoods

Die-cast hoods with pre-assembled and non-losable screws for fast and secure field assembly. Secured by a spring washer, the screws withstand high vibration loadings common in railway systems.



RAILWAY CONNECTORS



Provertha Ethernet D-code Crimp Cable Connector

Turned crimp contacts enable a secure contact of the Ethernet signal wires. These connectors are fast and easy to assemble in the field and are very suitable for constricted (rear-side) assembly conditions due to their compact dimensions. The shielded and waterproof housing design secures 360° EMI/RFI shielding and ensures high robustness in rough environments. These connectors also offer fail-safe wire termination due to a contact holder with wire colour coding. Both the insulator and contact holder are of certified plastics according to NFF 16-101.



Techno plug & socket connectors

The Techno TH405 (plastic with bayonet coupling) and the TH408 (nickel plated threaded coupling nut) have special designed silicon gaskets.

These connectors ensure a safe locking and a maximum protection of any type of railway application.



Provertha high speed M12 X code connector

Compared to D-coded M12 connectors the data transmission speed is increased by factor 100. (10 Gbit/s Ethernet). A special shielded design reduces crosstalk and signal coupling. The M12 X-coded devices are extremely compact and support the CAT6a specifications.

10 Gbps



Angled M12 D-code connector

Hummel TWILOCK

TWILOCK is a quick-release fastening system for Series M16 and M23 circular plug-in connectors. With one simple click, just a slight twist, the plug-in system goes from "Open" to "Close" and locks.



IP66
IP69K

CABLE HARNESS



When you, as our customer, need to design your connector into a cable assembly, A&C Solutions can provide you with an interesting alternative to do this in-house at attractive conditions.

A&C Solutions utilizes various, certified (ISO9001) production locations in Eastern Europe and China. These plants are specialised in cable assemblies and are fully equipped with the latest technology to ensure optimal cost-efficiency.

Being a connector distributor, A&C Solutions is able to offer you the best match in custom assembly since it has:

- the stock
- the right knowledge
- the right connector tooling
- and the best price

This means that by assembling your connector with A&C Solutions, you will decrease your direct- and indirect costs substantially and at the same time you are assured that your connector is assembled according to your specifications.



Production site China

Measurement equipment



Vehicle management



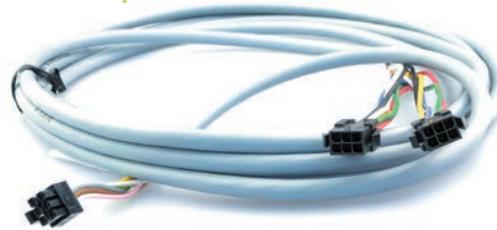


TAILOR-MADE SOLUTIONS

Coffeemachines



Amusement machines



Sorting machinery



Industrial printers



Agricultural machinery



Modular vehicles for road transportation

CONNECTORS



HUMMEL



HIGO



PROVERTHA

POWER SUPPLIES



DELTA



NEXTYS

A&C SOLUTIONS' MARKETS



LIGHTING INDUSTRY



JST



ZIERICK



ILME

ALSO AVAILABLE THROUGH A&C SOLUTIONS



GLENAIR



AMPHENOL



E-MOBILITY



TECHNO



SHIELD



BINDER



ESSENTRA



STOCKO



AUTOMATION & RAILWAY

If you require more information, **please contact us.**



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