

The Interconnect Solutions Provider

**APT**Technology

*Innovative Solutions*



**intercontec**  
*infinite connections*

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ISO 9001 Registration No:00/441



## About **Intercon**tec

Since its foundation in 1996 by Wolfgang Pfeiffer, **Intercon**tec has grown to become the connector manufacturer of choice for world leading motor and encoder manufacturers due to the breadth of product choice, coupled with their passion for innovation.

Intercontec's mission is to deliver superior signal, fieldbus and power connectors for a wide variety of applications by utilising knowhow and market expertise to challenge existing standards and deliver high quality market oriented solutions.




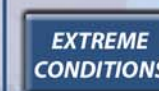






Manufactured in Germany, the standard range contains a variety of plan forms for power and signal applications, offering the most in-depth collection of M17, M23, M40 & M58 connectors available today.

## Contents

This short form details a number of innovative market leading products and customer oriented solutions that are available from Intercontec through AP Technology.

These connector types are designed for use in a variety of end markets and applications or in the harshest of environments where a creative solution is required.

*When viewing this publication electronically, clicking one of the buttons below will take you directly to that connector series page.*

	An overview of our interconnect line card		The innovative modular system for power & data applications
	"The" positive locking system for M17, M23 & M40 series connectors		When fail proof means -50° to 130°C - with vibration up to 20G
	A quick lock system - designed for confined spaces		Intercontec's definitive braid screen termination system
	It's the revolutionary tamper resistant ready assembled solution		A range of plastic and metallic protective caps
	When a flexible connection system is required		Designed to give protection in the most demanding environments

*For further information on Intercontec products or to arrange a visit by a member of our team please do not hesitate to contact us on the number below.*



Founded in 2001 AP Technology is the UK partner of **Intercontec**, the worlds leading maufacturer of circular connectors for motor power & signal applications.

We are an ISO 9001 approved specialist supplier of interconnect products including connectors, wire, cable and management products, supplying an extensive range of materials to OEMs, sub-contractors, installers & resellers worldwide from a select group of specialist manufacturers which enables us to deliver an end to end solution for your interconnect requirements.

Our principle differentiator is our service, in addition to our range of standard products we offer a variety of customised products and supply chain solutions to meet your individual requirements including:

- **Contract Pricing**
- **Scheduled & Call Off Orders**
- **Engineering Support**
- **No Minimum Order Value on Stocked Products**
- **In House Cable Assembly Manufacture**
- **Proactive Inventory Management**

## Our Line Card Includes



Founded in 1996 by Wolfgang Pfeiffer Intercontec has become the manufacturer of choice for world leading motor & encoder manufacturers. The connector range includes the most in-depth range of M17, M23, M40 & M58 styles of connectors, available in a variety of power and signal types.



Manufactures an in-depth portfolio of cable glands and accessories supplied in both plastic and metal. The cable gland range is available in a variety of sizes and styles including Metric, Pg & NPT. An extensive range of EMC cable glands, including a number of unique product offerings is available in a variety of styles and sizes.



Has focussed its expertise in the design and manufacture of cables for use in the machine tool, robotic and Industrial automation applications, concentrating on the supply of bespoke and custom cables with a wide range of approvals including a broad range of listings and approvals for both UL & CSA.



Founded in 1960 Hugro has established itself as a manufacturer of innovative and high quality products including enclosures, specialist cable glands and cable protection products.



Industriai Lombarda Materiale Elettrico, based in Milan has been manufacturing connectors since 1938. ILME offer one of the broadest ranges of multipole & electrical connectors available on the market today, Including innovative and unique products such as the CSH push fit connector and the T type plastic enclosure.



is a manufacturer of insulated wire and cable products. The manufacturing capabilities range from electronic and communication products to power and control cables to highly specialized cables for Industrial, Military, Security, Submarine and Medical applications.



Is a worldwide leader in cable technology, it offers an extensive range of cables and cabling systems including the most comprehensive range of high-performance control, robotic ,chain, encoder, motor power, bus and sensor application cables for control and process applications.



Offers one of the most diverse ranges of cable and cable accessories in Europe with over 30,000 active designs, including cables with UL/CSA and VDE approvals for a multitude of applications in a wide variety of industries.



The Sensational "One Second" Quick-Lock Fastener

The robust and vibration-proof locking mechanism provides safety during operation of M17, M23 and M40 connectors.



EMV/EMC

IP 66/67

-20G-  
VIBRATION/SHOCK

**SPEEDTEC**

Slide on... Turn...  
Locked.

Secure, stable and quick coupling with just a minimal twist - reducing installation time to save you money, as locking is achieved in just one second.



Fast... Safe...  
Compatible.

Speedtec receptacles are compatible with speedtec plugs as well as standard coupling nut connectors.



*For further information on this product or to arrange a demonstration, please contact us..*



## The New Quick Lock System **springtec** Designed for Confined Spaces

**springtec** quick lock fastener with automatic locking mechanism

- The pre-stressed connecting nut is wound up when connecting and locks when mated
- No accidental release possible
- The lock mechanism tightens under vibrations and eliminates accidental uncoupling
- Coded connector housings prevent the mis-mating of connectors
- Colour identification marks for visual differentiation
- Loosening tappets to allow connectors to be released in limited space

**springtec**

EMV/EMC

IP 66/67

-20G-

*Connected in a Flash*



Slide on...



...done!



**locktec**



### The Assembly-Ready Revolution Without Overmould

The innovative inseparable connection between the connector housing and strain relief will be destroyed if connector is opened.

**Tamper-resistant and assembly-ready**

### **locktec** - Plastic Coated Connectors

- Bend protection
- IP 66/67 protection
- Robust metal housing
- EMC-shielding
- Speedtec or screw coupling
- Individual labelling and colours available
- Standard and special cables in different lengths
- All plastics are UL 94/V0 certified
- Available in all standard insert configurations
- Individual cable lengths

*For further details and specific requests please contact us.*



## It Couldn't Be Easier.

**ytec** and its single version **itec**, form an ultra compact complete system with an automatically locking quick release fastener for easy and safe connections



EMV/EMC  
 c RU US  
 -20G-  
 VIBRATION TEST

**ytec** SYSTEM      **itec** SYSTEM

### Plenty of flexibility, little space required.

After installation, **ytec** and **itec** system connectors are infinitely rotatable by 300°.

### Maximum Room, Minimum Intrusion.

Easy Assembly thanks to ample room for contact pin insertion. **ytec** needs only one mounting hole in the motor housing.

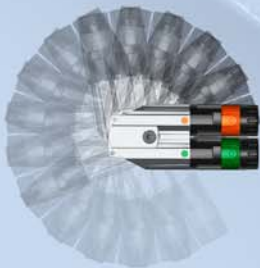
### Flat... Narrow... Short.

**ytec** and **itec** define new standards. Miniaturised in three dimensions, the system connectors fit with even the smallest motors.



### Absolutely Unambiguous.

Mechanically coded connector housings and colour coding prevent any confusion of signal and power plugs.





## Perfect Modularity

**xtec** is the truly modular interconnect system that allows both power & signal systems to be created.

All connector housing configurations are comprised of a few basic elements.

## **xtec** - It's As Simple As That!

- All connector housings can be equipped with both pins and sockets.
- Housings can be equipped with signal or power inserts.
- Coding of the insulator and coloured rings eliminates the possibility of mis-mating
- Available as bespoke pre-terminated cables



# - 50°C

## Fail-Proof Under Extreme Conditions

Intercontec connectors are fail-proof even under the most extreme conditions, withstanding the strongest electrical, electro-magnetic, thermal and mechanical strains they combine the smallest body styles with largest signal-noise-ratios. They tolerate vibration and shock up to 20G as well as a temperature range from -50 C to +130 C.

For utmost safety, all Intercontec housings are shielded and connected with a protective earth conductor.

In long-term operation Intercontec connectors prove their extreme high quality from, wind power plants in Mongolia, construction machinery in Siberia and outdoor cameras way beyond the polar circles.



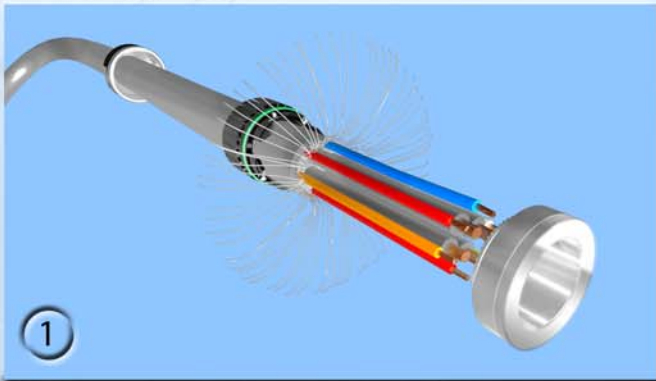


## Crown Clamp

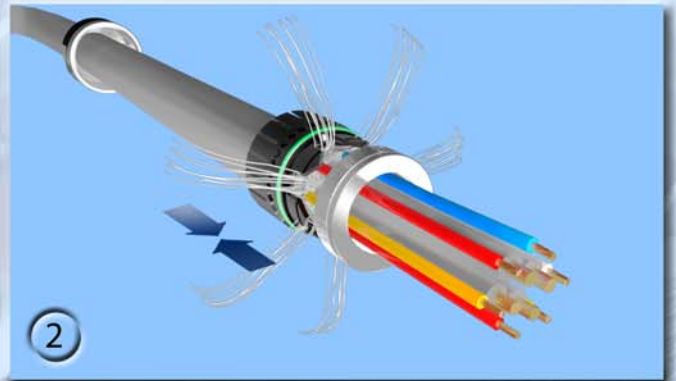
**Increase quality and savetime with Intercontecs unique clamp**

The innovative crown clamp is assembled in four easy steps.

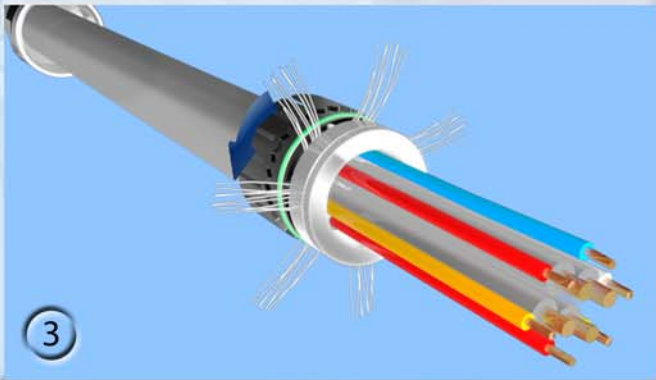
Fan out the cable screen...



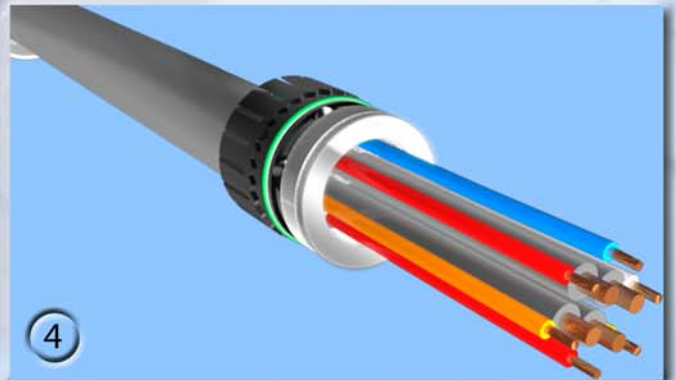
...push together...



...turn in...



...the clamp is assembled.



### Advantages include

- Coaxial style EMC shielding
- Available in a variety of cable entries
- No twisting of clamping ring and spacer
- Safe sealing in accordance with IP66/67
- No cutting of the shielding mesh deliver a shorter assembly time



Dust has no chance against robust high quality protection caps made of polyamide reinforced with glass beads. Signal and power connectors that are not in use and remain disconnected are thus well protected. The caps in the protection class IP 66/67 are UL 94 V0 certified and resist temperatures up to 130°C. Their tie straps are adjustable in length and provide fast and secure attachment to the cable

**IP66/7**



A range of metallic dust caps, manufactured in nickel plated brass is also available

**IP 69K**



For reliable operation under the influence of water and steam Intercontec connectors are available with IP 69K protection. The cable clamp is specifically adjusted to the cable safeguarding highest reliability of operation. Hermetically sealed metal housings come in to operation where connectors are exposed to high speed water jets, i.e. in automated washing systems, steam cleaning facilities or hygiene areas.