



## MAJOR RESHUFFLE IN CABLE ACCESSORIES MARKET //

Nexans, the giant European manufacturer, now has a much higher profile in New Zealand following a distribution agreement between Cuthbert Stewart Ltd (CSL) and Melbourne's Australmold.

CSL General Manager Leslie Oelofse says "As a result of our new distribution partnership with Nexans Australmold, CSL is now locally kitting and selling the entire range of Nexans cable accessory products in New Zealand. The new range has some exciting features and benefits that we believe our customers will value."

CEO Phil Elliott says "We pride ourselves in our value-add philosophy. We build brands and product profiles by investing in experienced personnel and training resources. That's why we have elected to align ourselves with a company which values this approach."

He says "The launch of the Australmold/Nexans range of products provides CSL with a number of additional product lines we didn't have previously and provides new and comprehensive solutions to the power generation, distribution and transmission industry."

Oelofse continues to say "Proof of the commitment to this strategy is in the recent appointment of a Technical Training Manager and two internationally certified cable jointers, whose main focus is to support the Australmold/Nexans product and to provide technical assistance as customers are accustomed to from CSL."

Nexans is one of the world's largest cable and cable accessories manufacturers, and it already has a good presence in New Zealand, but we aim to lift that profile significantly.

We will be distributing the full range of Nexans cable accessory products including Euromold cold applied joints and terminations, Elastimold screened elbows for ANSI and DIN standard bushings and Nexans full range of heat shrink jointing and termination products. Effectively,

we will be carrying a range of accessories for networks up to 142kV."

Australmold General Manager, Greg McKelvie and Australasian Sales Manager, David Taylor, are delighted with the new distribution model and see CSL as an ideal partner. "It's a company with an excellent strategy – it has a great sales team and supports its products with technically competent people. It offers design expertise, technical support, training and gives us better access to the Pacific Islands. Perfect."

Oelofse says the new product range is an "easy fit" for CSL. "We're combining a great range of quality products with an agile sales team and excellent technical expertise. That means the ability to deliver local solutions quickly. All in all, it adds up to a package we know the market appreciates."



Key CSL staff members who attended this year's EEA conference held in Christchurch from (left to right) Kevin Mercer, Jeff Plumley, John Jones and Vaughan Evans.



(left to right) Phil Elliott and Leslie Oelofse



## GPH a Nexans Company – Pioneered Shear Off Bolt Technology //

GPH, being the pioneer in shear off bolt connection technology, started in the 1990's with production of a series of mechanical connectors and cable lugs using shear off bolts for cable connection.

The fall of the Berlin Wall highlighted the need for the shear off bolt solution. When West German power utility companies took over the energy network from German Democratic Republic (GDR) in the former Soviet occupation zone, they encountered a wide variety of cable conductor shapes and sizes installed in the ground.

At that time, West German utilities used hexagonal compression technology for jointing following a DIN standard. The main disadvantage of this technology was that compression ferrules had to be adapted precisely to the conductors being joined, often very different and unfamiliar to West German utilities.

The result being that utilities were unable to easily join cable conductors and there was no compression solution that could cater for crossover of all cable standards.

This resulted in a unique opportunity to introduce a new shear off bolt technology which could cater for all cable standards, and more importantly to join two different cable standards and sizes.

**The first generation** of "GPH Single Shear Off Technology" allowed precision and consistent contact force with which the conductor is installed into the barrel of the mechanical connector providing:

- a simple and fail safe solution without use of special tools.
- a connection that guaranteed the correct contact force within the barrel by shearing off the hexagon head at the correct torque level every time.
- optimized contact regardless of the cable type or makeup e.g. solid, stranded, compacted, round or sector.
- suitability for a wide cross sectional range of conductors.

**The second generation** of "GPH Double Shear Off Technology" using an Allen Key for a 2 Step installation providing suitability for a wider cross sectional range of conductors.

Further development for medium voltage applications required reduction of "excess length" of shear off bolts.

**The third generation** of "GPH Multi Share Off Bolt Technology" once again improved the technical performance. This design was patented in 1998 and is used in all GPH M- and C - Series products. Market demand, to reduce stock cost, drove the need to widen the cross section range.

This brought new challenges into the design of mechanical connectors when considering the minimum and maximum range of a particular shear bolt and the management of excess length of the shear bolt itself.

It is physically intuitive that small cross sections should be connected with lower forces than larger ones. Exposing small conductors to high contact forces causes inevitable partial cross section reduction.



Above photograph clearly shows the Third Generation development in the C and M range connectors using the "multi shear off bolt technology" reducing the excess length of the connector bolt once installed.

## GPH MECHANICAL CABLE LUGS & CONNECTORS //

GPH's mechanical connectors are a reliable and cost effective method of connecting dissimilar cross sections and conductor material from 1kV to 33kV.

- Tested and Accredited to VDE 0220, IEC 1238





## NEW TO THE TEAM //



### Kevin Mercer //

Kevin Mercer joined the Cuthbert Stewart Ltd energy sales team as the South Island Key Account Manager, based in Christchurch. After having spent 30 years in all areas of the Electrical Industry, starting with the South Canterbury Electric Power Board and moving through contracting, retail and wholesale, he is very pleased to return to the electrical utility business.

Kevin's role includes day to day interaction with South Island customers providing a vital link between customers and CSL's Head Office and warehouse facilities. Kevin is embracing the challenge of introducing the totally new range of Nexans's products; including both Heatshrink and Cold Applied cable terminations and joints to the South Island electrical utilities. Kevin's experience in technical sales with NZ Insulators and Electropar in low and medium voltage distribution products is an asset to the CSL team.

Kevin understands the need to provide hands on training, supported by the CSL technical team to ensure that South Island customers embrace change within our business. Outside of work Kevin's main interests are with prior 1930s automobiles, fishing and travel.



### Jeff Plumley //

Jeff started his four year cable jointer apprenticeship with the Southern Electricity Board in Southampton as a fresh faced sixteen year old. He then served a further fifteen years with the electricity board and gained extensive experience in cable jointing and terminating various cable types and profiles. Jeff then made the life changing decision of up routing his family to the land of the long white cloud.

Jeff joined Transfield Services in Wellington in 2005, settled in the beautiful coastal town of Paraparumu and gained five years of New Zealand working experience under the supervision of the well respected team at Transfield Services.

Jeff's overseas and local experience has been quite diverse, from inner city supply restoration issues to the Tararua wind farm in Palmerston North.

Jeff comments " I am very excited about this new challenge and look forward to being part of the Cuthbert Stewart Ltd team."



### John Jones //

John Jones recently joined CSL as Technical Training Manager. John comes with a wealth of experience having worked for many years as a cable jointer carrying out numerous contracts across the country for both the MEB and Energy Electricity Distribution network in London.

John's primary role will be to provide technical support for the Nexans range. John is particularly keen to focus on launching the new products and accessories to the NZ market, managing the growth and development of the new products, whilst also maintaining positive business relations with existing customers, through continued technical support and advice.

More recently John has worked for Utilitech as a training provider for the electrical utilities. Prior to immigrating to New Zealand, John was instrumental in setting up a training college in the West Midlands where he was quickly promoted to head of department. This experience combined with his professional knowledge means that John is well placed to manage and develop the company's technical training strategies and initiatives for CSL's customers.

## COLD APPLIED JOINTS AND TERMINATIONS //

Designed to comply with international standards

- CENELEC HD 629.1
- CENELEC EN 50180
- IEC 60137
- IEEE 386 & 404

Manufactured in European plants certified by CESI, KEMA and ATEX assuring conformity of the Nexans product.



Nexans  
austromold

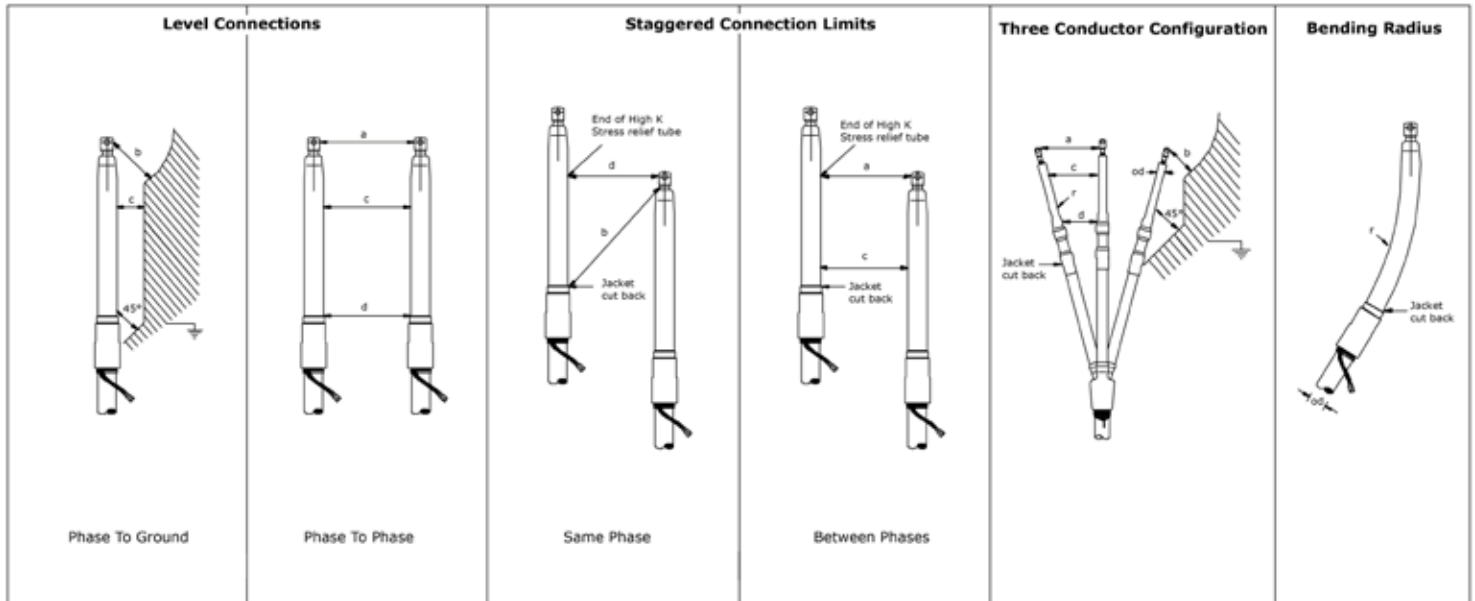
Euromold  
a Nexans company

Nexans

GPH  
a Nexans company



# JOINTERS CORNER //



## NOTE

r = Recommended minimum bending radius.

This is typically limited by how far the cable itself can bend. The minimum bending radius of tape shielded cables is 12 times the overall diameter of the cable. Refer to other reference guides specific to the actual cable being used for the minimum bending radius.

## TOLERANCES

All dimensions in millimetres

o ± 1,00

0,0 ± 0,50

0,00 ± 0,25

## Recommended Minimum Clearances

IEC	IEE	Equipment BIL (kV)	Dimensions			
			A	B	C	D
7.2	-	60	114	76	15	10
12.0	5.0	75	140	102	20	15
17.5	8.7	95	190	127	30	20
-	15.0	110	229	165	35	23
24.0	-	125	267	190	40	25
-	25	150	317	241	40	25
36.0	-	170	381	279	50	35
-	35	200	457	330	50	35

All dimensions in millimetres

## HEAT SHRINK JOINTS AND TERMINATIONS //

Designed to comply with international standards

- CENELEC HD 629.1
- IEC 60502-4

Manufactured in European plants certified by CESI, KEMA and ATEX assuring conformity of the Nexans product.



## KEY CONTACTS //

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