



DRIVEN BY POSSIBILITY™



GATES® MEGASYS™

MEGACRIMP™ COUPLINGS

WITH C-INSERT AND TUFFCOAT™ PLATING

MEGACRIMP COUPLINGS GIVE YOU A LEAK-PROOF SEAL THAT'S SO INNOVATIVE, IT'S PATENTED.

It's what's inside the MegaCrimp coupling that makes it perform so well, the "C" insert. This "C" insert allows usage with different hose constructions and wall thicknesses. In addition, the C-insert ensures an even distribution of crimping forces to form a concentric seal. That simplifies your inventory requirements since one size can accommodate many different hose ODs, on both one- and two-wire braid hoses. An additional bonus: MegaCrimp couplings are fully qualified for SAE, EN, and ISO performance.





DRIVEN BY POSSIBILITY™

GATES MEGASYS

MEGACRIMP COUPLINGS

WITH C-INSERT AND TUFFCOAT PLATING

FEATURES + BENEFITS

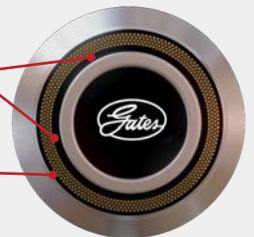
- The 'bite-the-wire' design allows for coupling and hose retention to make a high performance, risk-free hydraulic hose assembly
- Full-Torque Nut couplings are stronger and more durable than traditional staked nut fittings that are prone to cracking when over-torqued
- The Full-Torque Nut transfers input-torque to clamp-load more consistently than staked nuts, minimizing leaks
- MegaCrimp couplings allow you to simplify your inventory by carrying one family of couplings that are qualified on all Gates wire-braid hoses
- MegaCrimp couplings are tested to one million impulse cycles, proving its high performance and maximum service life
- MegaCrimp couplings complement and are crimped to industry-leading hoses
- Every MegaCrimp coupling is produced with TuffCoat plating as standard
- MegaCrimp is a one-piece coupling that offers a weep free C-insert design, full insertion indication, low insertion force, and doesn't require skiving

THE "C" INSERT STARTS ROUND, STAYS ROUND

During crimping, only the outside shell of a MegaCrimp coupling takes on the shape of the dies. Inside, the C-insert stays round – like the hose. There's no "polygon effect". A comparison of cross-sections with Gates competitors' couplings shows how crimping can distort the hose tube which often leads to the formation of leak paths, while MegaCrimp couplings remain round.

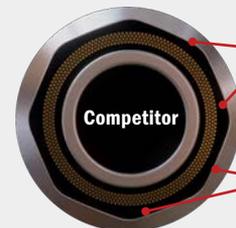
Evenly distributes forces

C-insert ensures weep-free crimping



Inconsistent crimp pressure on hose wall

Potential weep path





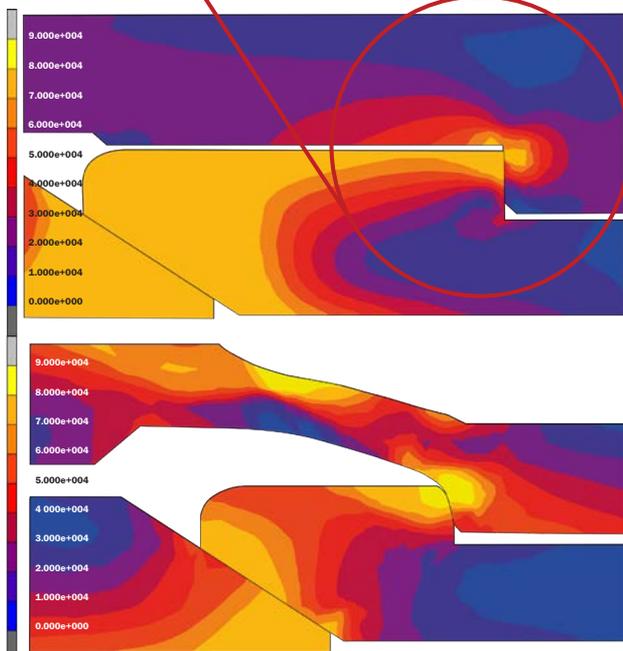
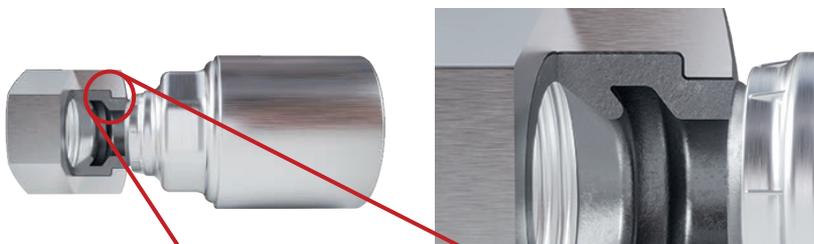
DRIVEN BY POSSIBILITY™

FULL-TORQUE NUT TECHNOLOGY

One of the most common causes of hydraulic leaks is a cracked coupling nut or seat due to over-torquing. With Gates Full-Torque Nut couplings, a large holding shoulder evenly distributes stress forces at the nut for higher resistance against cracking, even when inadvertently over-torqued, for a stronger and more durable seal.

INCREASE EQUIPMENT UPTIME BY ELIMINATING DAMAGED COUPLINGS AND LEAKS FROM TOO MUCH TORQUE.

- No installation leaks
- Less time spent retightening connections
- No more cracked nuts



Gates Full-Torque Nut design lowers peak stresses in the material

Conventional stake nut design with higher peak stresses increases chances of cracking or leakages

GATES BITE-THE-WIRE DESIGN



Gates "Bite-the-Wire" design

The advanced design of the MegaCrimp tooth profile shown above "bites the wire" for maximum coupling retention unlike the competitive crimp shown below that relies on the compression of the rubber tube and cover.



Competitor design

MegaCrimp couplings have an optimum insertion force. Not too tight. Not too loose. You can feel them "hit bottom" when you insert them. Once inserted, MegaCrimp couplings stay inserted. They won't fall out during the crimping process.





DRIVEN BY POSSIBILITY™

EXCEEDS 840 HOURS OF RED RUST CORROSION RESISTANCE

TUFFCOAT

All MegaCrimp couplings are protected, at the minimum, with TuffCoat plating. In salt spray tests according to ASTM B117 (ISO 9227), TuffCoat plating resists red rust formation for 500 hours. That's nearly 350% greater than the SAE J516 144-hour standard.

TUFFCOAT XTREME™

TuffCoat Xtreme offers an extra measure of protection – 840 hours of red rust corrosion resistance. That's nearly six times the 144-hour SAE J516 standard.

- For use in extremely corrosive environments, specifically those where salt and liquid fertiliser are used
- Plating of choice for specialised mining applications
- Extend the life of the assembly to decrease downtime and maintenance



MegaCrimp coupling specifications and details are listed in the Gates Hydraulic Catalog. Visit GatesAustralia.com.au for more information.

GATES TUFFCOAT

COMPETITOR



96 HOURS

GATES TUFFCOAT

COMPETITOR



144 HOURS

GATES TUFFCOAT

COMPETITOR



500 HOURS

GATES TUFFCOAT XTREME

COMPETITOR



840 HOURS



eCrimp

**BUILT FOR
HIGH-PRESSURE
SITUATIONS**

**CHECK THE GATES
E-CRIMP APP**

When selecting hose and coupling combinations. Also available electronically at www.gates.com/ecrimp.

GATES AUSTRALIA PTY LTD

1-15 Hydrive Close, Dandenong South, Victoria, 3175
PH: +61 3 9797 9666 FAX: +61 3 9797 9600

