PRODUCT RANGE

MRTS	Cable Range	Pack Size	Shear Bolt Configuration
MTRS06-11	6mm – 11.3mm dia. AAC/AAAC/ACSR 6/1	10 Carton 100 Layer 500 Pallet	**2x** 4 Shear Bolts, 55/75Nm
MTRS10-14	10mm – 14.3mm dia. AAC/AAAC/ACSR 6/1	6 Carton 60 Layer 300 Pallet	**2x** 5 Shear Bolts, 60/80Nm
MTRS11-18	11mm – 18.8mm dia. AAC/AAAC/ACSR 6/1	6 Carton 60 Layer 300 Pallet	**2x** 5 Shear Bolts, 90/110Nm
MTRS17-22[2]	17mm – 22mm dia. AAC/AAAC/ACSR	6 Carton 48 Layer 240Pallet	**2x** 5 Shear Bolts, 90/110Nm
MTRS611-EHT[1]	7.5mm ACSR RAISIN	10 Carton 100 Layer 500 Pallet	**2x** 6 Shear Bolts, 55/75Nm
MTRS1014-EHT[1]	14.3mm ACSR CHERRY	6 Carton 60 Layer 300 Pallet	**2x** 7 Shear Bolts, 60/80Nm

[1] Available end of 2015 [2] This product is a limited tension fitting. Please contact Sicame to determine the rating for your conductor. Note for conductors other than ACSR type 6/1/ACSR please contact Sicame Australia for confirmation of suitability.
The MTRS range of mechanical repair splices are designed for distribution systems and not intended for Transmission networks.

THE POWER TO INNOVATE

DRIVING AUSTRALIAN MANUFACTURING FORWARD

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mtrs
MECHANICAL TENSION REPAIR SPLICE

“The world’s first shear-bolt action mid-span splice”

The new mechanical repair splice MTRS has been developed to overcome many of the issues effecting poor jointing of bare overhead conductors with either compression, helical or spring type splices.

Compression, helical and spring-loaded ‘automatic’ type splices all suffer from well-known problems that can compromise their long term performance and reliability.

Life-threatening injuries and the risk of serious property damage caused by mid-span splice failures in the United States has forced network owners to search for a better and more reliable splicing solution to avoid expensive litigation.

In 2010, several network owners in the USA approached Sicame Australia to develop a new splice, which might employ the mechanical shear-head connection technology that was being successfully employed in the Piranha™ series of underground water-proof connectors, to address the reliability issues inherent with the present-day overhead splices.

Brief for the innovation

- Each new splice in the range needed to suit a range of conductor sizes and types, new and old.
- The new splice needed to meet, and preferably exceed, the existing electrical and mechanical performance standards.
- Installation of the splice should not require any special preparation of the conductor, like scratch-brushing.
- Once installed, the splice should not have any protrusions that may scratch or damage slide-on covers.
- The installation of the splice should be easy, and help reduce installer error and any consequences arising from these errors.
- No specialist and expensive installation tooling should be required, and the cost of ongoing equipment maintenance should be minimised.

After a challenging 4 years of intensive research and product development, the MTRS from Sicame Australia was realised: *The world’s first shear-bolt action mid-span splice.*

MTRS
MECHANICAL TENSION REPAIR SPLICE

HOW DOES IT WORK?

High-torque, shear-head bolts apply pressure points on the conductor via an internal pressure plate in a unique wave-like pattern along its length, thus ensuring superior and reliable mechanical and electrical performance.

FEATURES AND BENEFITS

Only 4 different splices required to cover conductors from 6 to 22mm OD

Shear-head bolts for torque control

Suitable for full and non-tension applications on AAC, AAAC, ACAR and ACSR*

Tested to AS/NZS 1154.1, ANSI C119.1 and IEC61284

Each end of each splice will suit a wide range of conductors – new and old

Vent and drain holes allow self-cleaning of pollutants

***Limited range only at full tension on ACSR – consult factory**