



# Bridge Products

# 2025

Structural cables, balustrading  
and fall protection for bridges  
across Australasia



## CABLE SYSTEMS FOR BRIDGES

For 200 years Teufelberger-Redaelli has delivered structural cables to support many of the world's bridges.

The development and design of cable systems is underpinned by an expansive knowledge base that ensures installation and tensioning of cables to meet detailed technical specifications for each individual bridge.

Cable systems are prefabricated in the factory using the highest quality cable, sockets, socketing and finishing to fulfill the design and installation needs of specific projects. The Teufelberger-Redaelli range of high-performance steel cables can be either supplied using Full Locked Coil (FLC) ropes or Open Spiral Strands (OSS). Both solutions are available with poured spelter cone type sockets (resin or zinc filled) or with pressed swaged sockets depending on the cable diameter and the project requirements.

Teufelberger-Redaelli has a specialist team of site technicians supported by construction engineering expertise and an extensive fleet of industry leading installation and tensioning equipment.

Whether in a new build environment or a renovation and replacement of an existing structure, Teufelberger-Redaelli's dedicated site engineering team is available to discuss the challenges of every project. The team also offers standard and customised installation and tensioning solutions to suit specific site conditions and constraints.



## CALL US TODAY

For more information about our products and manufacturing capability contact our team on 1800 ARCUSW (1800 272 879) or email [sales@arcuswire.com](mailto:sales@arcuswire.com)



## THE GO-TO TENSILE MESH FOR BALUSTRADES AND FALL PROTECTION

Flexi-Mesh is the go-to product for tensile mesh for use in bridge applications due to its unique structural properties and aesthetic appeal.

Flexi-Mesh can be used in both pedestrian and vehicular bridge applications, offering a number of benefits over traditional materials such as steel or concrete.

One of the primary benefits of using a tensile mesh such as Flexi-Mesh in bridge applications is its lightweight nature. Flexi-Mesh structures can be significantly lighter than traditional steel or concrete bridges, helping to reduce the overall cost of construction and improve the speed of installation. The lightweight nature of Flexi-Mesh also makes it easier to transport and install, which can further reduce costs and improve efficiencies.

Another benefit of using Flexi-Mesh in bridge applications is its durability. Flexi-Mesh is made from high-strength materials that can withstand significant amounts of stress and strain. Making it ideal for use in bridge applications, where the structure needs to support heavy loads and withstand the effects of wind, rain, and other environmental factors.

Flexi-Mesh can also be customized to meet the specific needs of bridge projects. Including customisation of the mesh material, color, and other features to ensure that the structure is a perfect fit for its intended use. Flexi-Mesh can also be used to create unique design elements, such as undulating forms or organic shapes, that are difficult to achieve with traditional materials.



## QUALITY STAINLESS STEEL WIRE AND FITTINGS PROTECTION

Our hamma® range of stainless steel wire rope and fittings provide marine grade cables that withstand environmental conditions making them ideal for bridges.

## EXPERTISE

Celebrating 60 years in 2024, Arcus Wire Group brings a wealth of experience, knowledge, and expertise to deliver cables, balustrading and fall protection solutions for bridges of any size or complexity.

## BRIDGE PROJECTS DELIVERED



## Alfred Street Bridge

Project: Alfred Street Bridge  
 Location: Parramatta, New South Wales  
 Client: Abergeldie Complex Infrastructure  
 Year of Construction: 2023

In 2021 Arcus Wire Group was engaged by Abergeldie Complex Infrastructure to supply & install eighteen 30mm Full Locked Coil Teufelberger-Redaelli cables. Arcus Wire Group was also contracted to design, engineer and supply the new Flexi-Mesh balustrade.

A specialised installation team from Teufelberger-Redaelli installed and tensioned the FLC cables. The balustrade design features hamma® stainless steel cables and Flexi-Mesh tensioned mesh.



## Dwaarlindjirraap Bridge

Project Name: Dwaarlindjirraap Bridge  
 Location: Dwaarlindjirraap, Western Australia  
 Client: Bocol Construction  
 Year of Construction: 2023

In 2020 Arcus Wire Group was engaged by Bocol Constructions to supply a range of cables from 14mm-64mm of Full Locked Coil Teufelberger-Redaelli cables. Arcus Wire Group was also contracted to design, engineer and supply the new Flexi-Mesh balustrade. The balustrade design features hamma® stainless steel cables and Flexi-Mesh tensioned mesh.



## PORT CAMPBELL BRIDGE

Project Name: Port Campbell Suspension Bridge  
 Location: Port Campbell, Australia  
 Client: Simpson Construction  
 Year of Construction: 2020

Arcus Wire Group worked with Simpson Constructions on the completion of the Port Campbell pedestrian bridge – delivered as part of a \$3.2 million project for Parks Victoria.

Arcus Wire Group supplied Teufelberger-Redaelli full locked coil structural cable to support the bridge as well as our Flexi-Mesh stainless steel wire mesh which was selected to meet Parks Victoria's objective to feature open balustrading, allowing the natural and cultural values of the coastline to remain the focus.



## MATAGARUP ZIP LINE

Project Name: Matagarup Zip Line  
 Location: Perth, Australia  
 Client: Main Roads Western Australia  
 Year of Construction: 2020

In 2020 Arcus Wire Group was engaged by Main Roads Western Australia (MRWA) to supply specialty FLC cables for a new Zip Line to be constructed off the Matagarup Bridge.

Arcus Wire Group supplied Teufelberger-Redaelli Full Locked Coil Cables and Sockets. The Zip Line is a 19mm FLC and was custom made for this project.



## BEAVERS ROAD BRIDGE

Project Name: Beavers Road Pedestrian Bridge  
 Location: Melbourne, Australia  
 Client: Simpson Construction  
 Year of Construction: 2020

In 2020 Arcus Wire Group was contracted to supply and install the Beavers Road bridge over Merri Creek, Northcote in Victoria.

Constructed by Simpson Construction and funded jointly by the Darebin and Moreland City Councils, the pitt&sherry designed bridge allows pedestrians and cyclists to travel freely and safely between Northcote and Brunswick East.

Arcus Wire Group supplied Teufelberger-Redaelli Full Locked Coil Cables and Sockets.

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Arcus Wire Group won the ASSDA 2022 Fabricator Project of the Year Award for the hamma® Duplex 2205 Cable Assembly Project.

Guiding System for Hydroelectric Power Station.

All hamma® products carry a **10-year warranty** against defects/workmanship from date of purchase.



See [www.arcuswire.com](http://www.arcuswire.com) for terms and conditions.

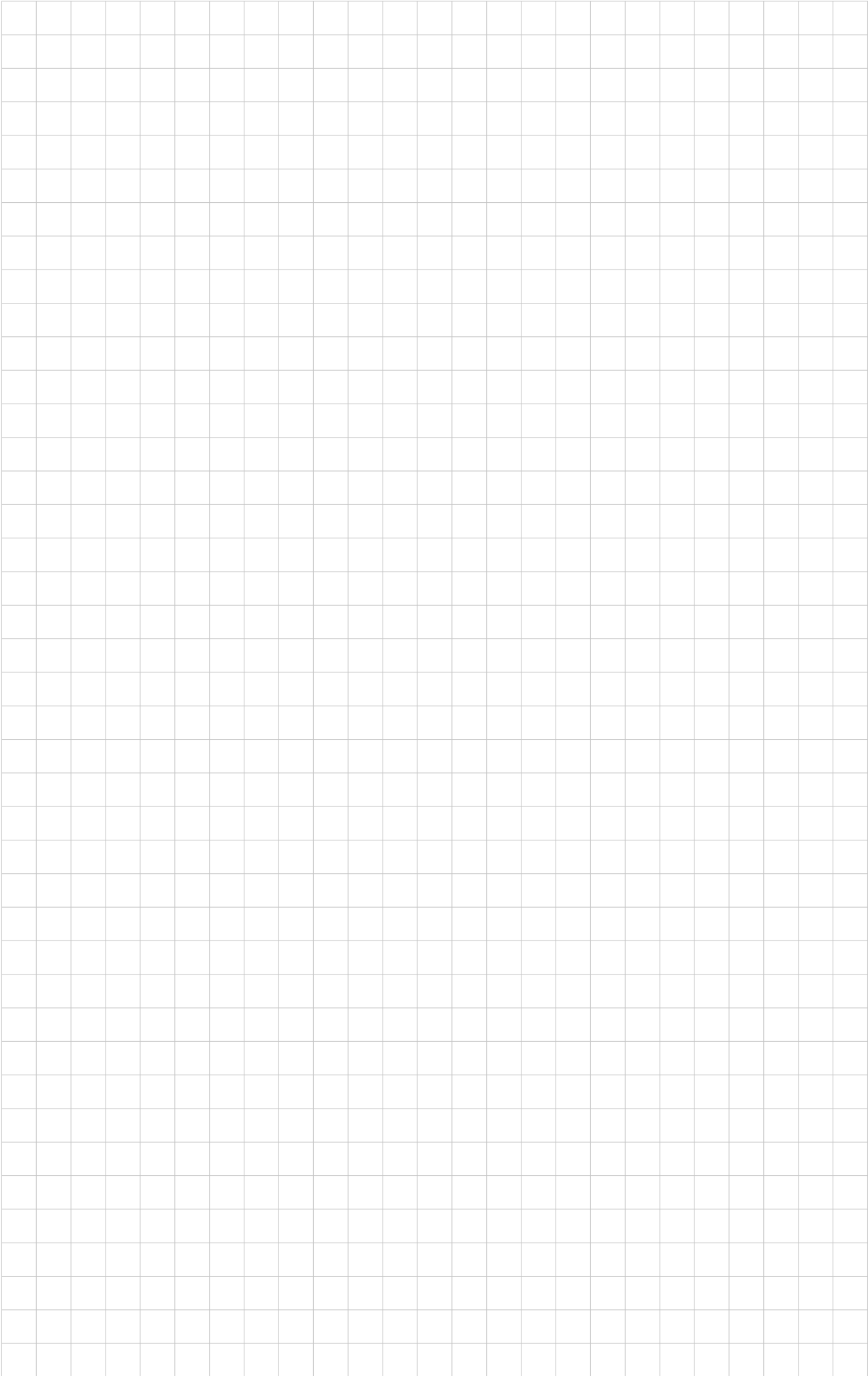
## MANUFACTURING AND TESTING

FROM OUR MANUFACTURING BASE IN QUEENSLAND, AUSTRALIA, WE MANUFACTURE CABLE ASSEMBLIES FROM 1MM > 42MM.

Our hydraulic swaging machines, and 60t and 300t test beds, enable our expert team to manufacture and test cable assemblies for small to large scale projects, which are delivered to customers across Australia and internationally.

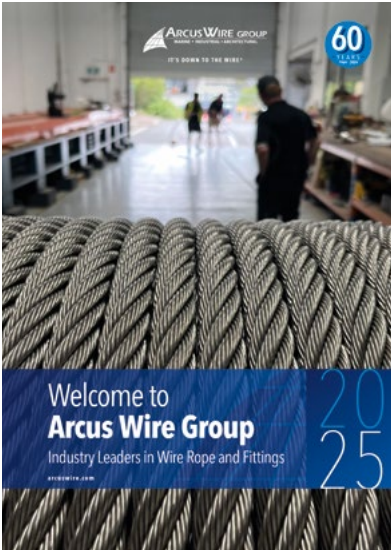
Recent projects include balustrading for pedestrian walkways, 325kg hamma® Duplex cables for a hydroelectric power station in Israel, and over 5,400 stainless steel cable assemblies of hamma® X cables for an outdoors project in Hong Kong.





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# ABOUT US



ABOUT ARCUS WIRE GROUP

## ARCUS WIRE GROUP

As a recognised leader in wire rope and fittings for 60 years, Arcus Wire Group brings a wealth of experience, knowledge and expertise to help customers with wire rope projects of any size or complexity.



"We don't just aim to meet your expectations and project requirements; we strive to exceed them while providing remarkable value."

David Sheedy, CEO

## INDUSTRY ACCREDITATION



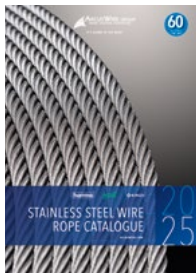
# BRANDS



Visit [arcuswire.com.au](http://arcuswire.com.au) for latest catalogues and brochures.

# PRODUCTS

## WIRE ROPE AND CHAIN



STAINLESS STEEL WIRE ROPE



GALVANISED WIRE ROPE



MEDIUM LINK CHAIN

## STAINLESS STEEL WIRE MESH



FLEXI-MESH



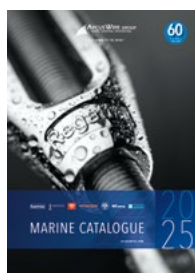
STANDOFFS

## INDUSTRIAL SOLUTIONS

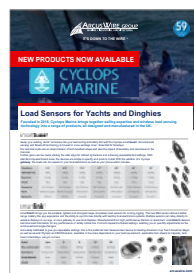


INDUSTRIAL

## MARINE SOLUTIONS



MARINE



CYCLOPS MARINE

## ARCHITECTURAL SOLUTIONS



ARCHITECTURAL SOLUTIONS

## INDUSTRY SOLUTIONS



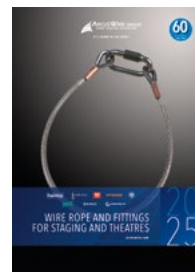
BRIDGES



IRRIGATION



DI'VINE LANDSCAPE



STAGING AND RIGGING FOR THEATRES



S307 RATED COLLARED EYE BOLT

# SERVICES

## MANUFACTURING, TESTING AND PRODUCT DESIGN



QUALITY WIRE ROPE CABLE ASSEMBLY AND MANUFACTURING



INDUSTRY LEADING WIRE ROPE TESTING



SPECIALISED PRODUCT DESIGN

Visit [arcuswire.com.au](http://arcuswire.com.au) for latest catalogues and brochures.

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FOR MORE INFORMATION  
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