



Submarine Cable Systems

Exceptional
Unrepeated
Solutions





The pictures shown in this publication are used for illustrative purposes only.

Flexible solutions for every submarine project

Hexatronic has extensive experience in worldwide submarine cable projects. With a focus on durable high fiber count designs, Hexatronic offers cost-efficient cable designs of exceptional Swedish quality.

From island interconnects to regional festoons, river and harbor crossings to inland routes, we have a practical solution for all types of project.

Hexatronic is a flexible organization and is highly committed to each project we undertake. We pride ourselves on giving our customers the right solution, on time and within budget.

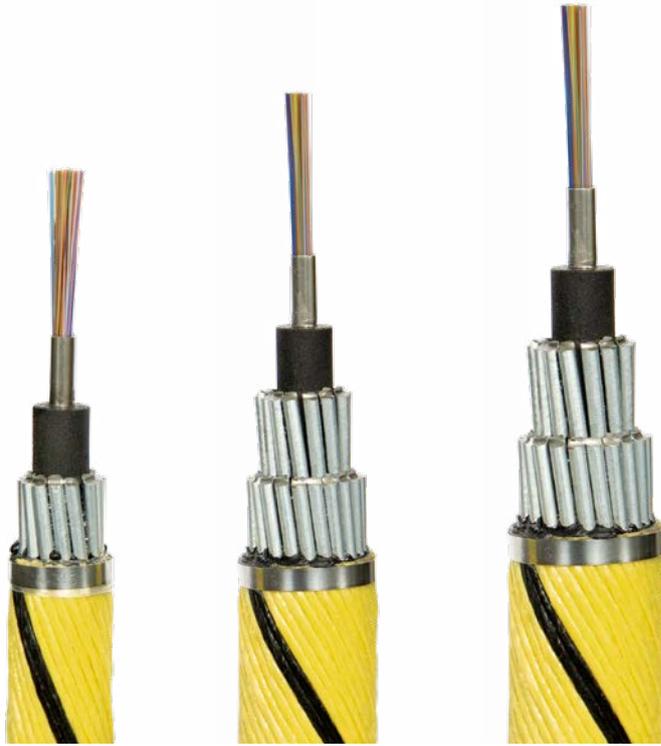
Products for point-to-point systems

Modern telecoms networks consist of subsea and terrestrial systems providing seamless end-to-end connectivity between Data Centers and Points of Presence. Hexatronic has the unique ability to supply

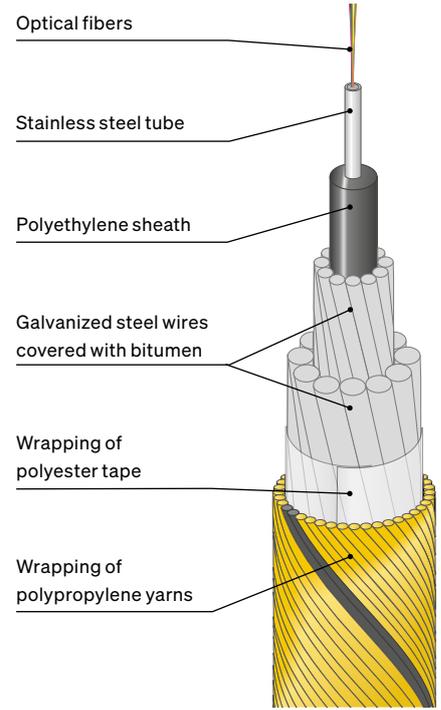
not only submarine cable but also terrestrial cable, infrastructure and installation services to support complex network builds. Our deep experience in all aspects of fiber optic cable systems is what makes Hexatronic a natural choice for point-to-point projects.

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Hexatronic Unrepeated Cable



Reliable performance and excellent protection

Hexatronic’s submarine cables provide superior mechanical protection, easy handling and reliable performance. All cables have steel wire armoring and an inner water blocking tube that prevents any water ingress. The cables are resistant to tensile forces and impact caused by anchoring, recovery operations and handling.

The design includes a hermetically sealed stainless steel tube. Inside the tube the fibers are free to move in the thixotropic water-blocking compound. The tube is protected by a polyethylene sheath, one or two layers of galvanized steel wires flooded in bitumen and then wrapped in a layer of polypropylene yarn. The loose tube technique results in a high packing density. This permits a small outer diameter and easy handling.

All cables and joints are built with the highest protection to ensure a long-life span for maximum efficiency.



Hexatronic Manufacturing Factory, Hudiksvall
Load out pier. 61°43'08.2"N 17°09'37.7"E.

Single armored submarine cable

Loose tube, GJLTM 5 ton SAL

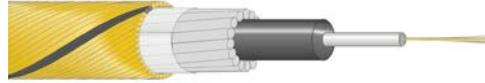
Lightweight protected, loose tube cable for water depths greater than 1000 m.

Design: Loose tube, lightweight protected

Type: 5 ton, ≤ 5000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Loose tube, GJLTM 10 ton SA

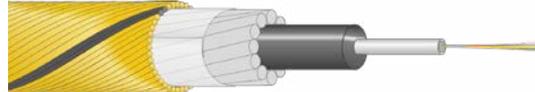
Single armored, loose tube cable where moderate protection is required.

Design: Loose tube, single armor

Type: 10 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Loose tube, GJLTM 15 ton SAH

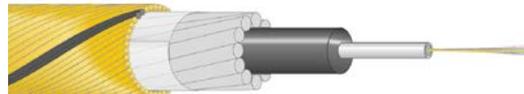
Single armored, loose tube cable where high protection is required. This cable has the same principal design as the GJLTM 10 ton SA.

Design: Loose tube, single armor

Type: 15 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Double armored submarine cable

Loose tube, GJLTTM 15 ton DAL

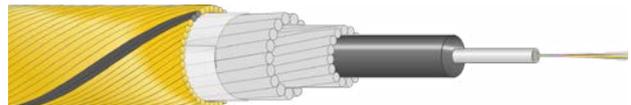
Double armored, loose tube cable where high protection is required.

Design: Loose tube, double armor

Type: 15 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Loose tube, GJLTTM 25 ton DA

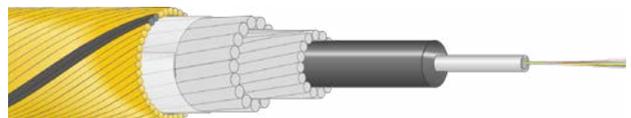
Double armored, loose tube cable where very high protection is required. This cable has the same principal design as the GJLTTM 15 ton DAL.

Design: Loose tube, double armor

Type: 25 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Loose tube, GJLTTM 40 ton DAH

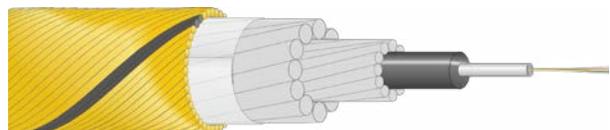
Double armored, loose tube cable where ultimate protection is required. This cable has the same principal design as the GJLTTM 15 ton DAL.

Design: Loose tube, double armor

Type: 40 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Electroding – Single armored submarine cable

Loose tube, GJZLTM 5 ton SAL

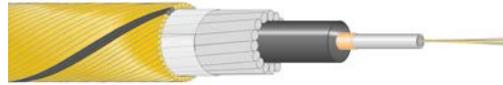
Lightweight protected, loose tube cable for water depths greater than 1000 m. The cable incorporates a copper layer wrapped around the steel tube for electroding.

Design: Loose tube, lightweight protected, electroding

Type: 5 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Loose tube, GJZLTM 10 ton SA

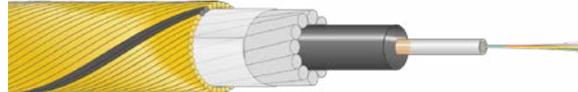
Single armored, loose tube cable where moderate protection is required. The cable incorporates a copper layer around the stainless steel tube for electroding.

Design: Loose tube, single armor, electroding

Type: 10 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Loose tube, GJZLTM 15 ton SAH

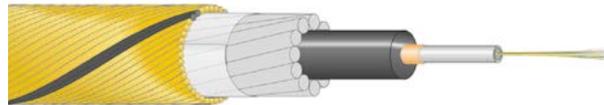
Single armored, loose tube cable where higher protection is required. This cable has the same principal design as the GJZLTM 10 ton SA.

Design: Loose tube, single armor, electroding

Type: 15 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Electroding – Double armored submarine cable

Loose tube, GJZLTTM 15 ton DAL

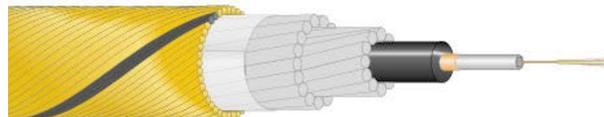
Double armored, loose tube cable where high protection is required. The cable incorporates a copper layer around the steel tube for electroding.

Design: Loose tube, single armor, electroding

Type: 15 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Loose tube, GJZLTTM 25 ton DA

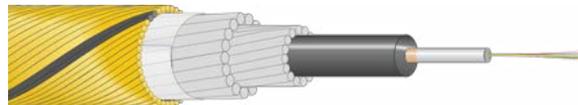
Double armored, loose tube cable where very high protection is required. This cable has the same principal design as GJZLTTM 15 ton DAL.

Design: Loose tube, double armor, electroding

Type: 25 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Loose tube, GJZLTTM 40 ton DAH

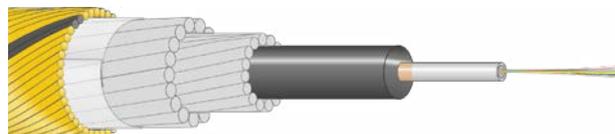
Double armored, loose tube cable where ultimate protection is required. This cable has the same principal design as GJLTTM 15 ton DAL.

Design: Loose tube, double armor, electroding

Type: 40 ton, ≤ 3000 m

Capacity: 12-192 fibers

Water depth: ≤ 3000 m



Submarine joints for loose tube cables

Submarine joint closure

Closure made of heavy-duty stainless steel and hermetically sealed cable joints for loose tube fiber optic submarine cables. The joint can host up to 192 fibers.

Design: Submarine joint for loose tube cables

Capacity: 12-192 fibers.



Universal joint/universal quick joint for submarine cables

UJ/UQJ are technologies developed by the Universal Joint Consortium to facilitate efficient maintenance of installed submarine cable systems. Most of Hexatronic's submarine cables are qualified for this technology and this joint type is the preferred option in many installation projects.

Design: UJ/UQJ for 10-, 15, 25-, 40 ton submarine cables

Capacity: 12-192 fibers



Submarine cable parts for integration

Throughout Hexatronic's history of supplying high quality, reliable cable solutions, we have developed a long track record with leading power cable suppliers. Fiber optic submarine cable parts for integration into power cables enables global suppliers to meet the growing need for more power over greater distances.

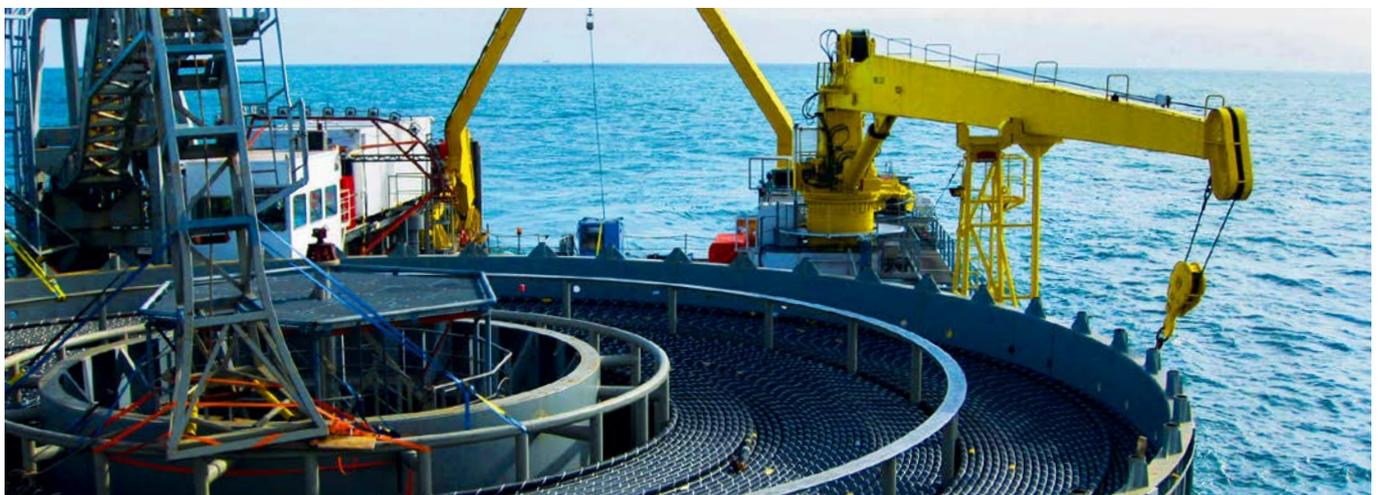
Submarine optical cable part 12-96 fibers, GJL

The cable part is based on a hermetically sealed stainless tube. Inside the tube the fibers are free to move in thixotropic water blocking compound. The steel tube is protected by a semiconductive polyethylene sheath. The fibers are easy to identify due to color and the colored yarns. The cable part is designed to be integrated in submarine electrical power cables.

Design: Loose tube

Type: For integration, ≤ 3000 m

Capacity: 12-96 fibers



Efficient delivery worldwide

Hexatronic prides itself on fast response and turn-around timescales. Our submarine cable solutions can be delivered globally via land, air or sea;



Delivery in Liftable Cable Basket



Delivery in coil



Delivery on Steel or Wooden Drum



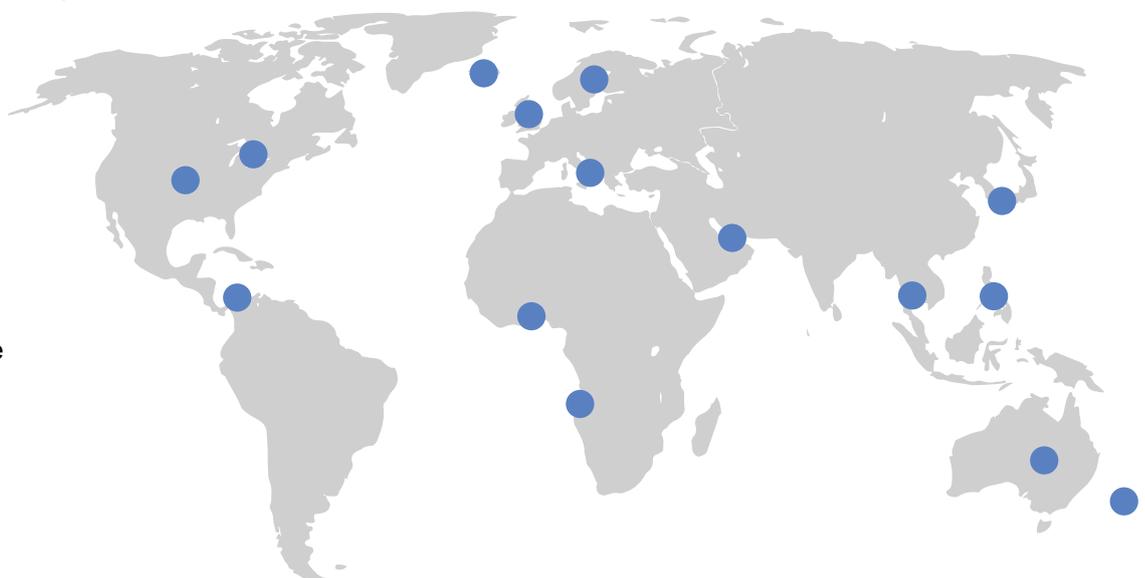
Delivery in 40' Open-Top Container

Global reference projects

A Truly Global Company

With a rich history of submarine cable projects Hexatronic has supplied systems world-wide, with references including;

- Oceania
- Caribbean
- Middle East
- North America
- Mediterranean
- Northern Asia
- South East Asia
- Northern Europe



A lasting link to the future

hexatronic.com

Hexatronic enables non-stop connectivity for communities worldwide. We partner with customers across four continents – from telecom operators to network owners – offering leading-edge fiber technology and solutions for any and all conditions.

