

SUBMARINE CABLE SYSTEMS

Exceptional Unrepeated Solutions





Loading of submarine cable

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.

Online Catalogue

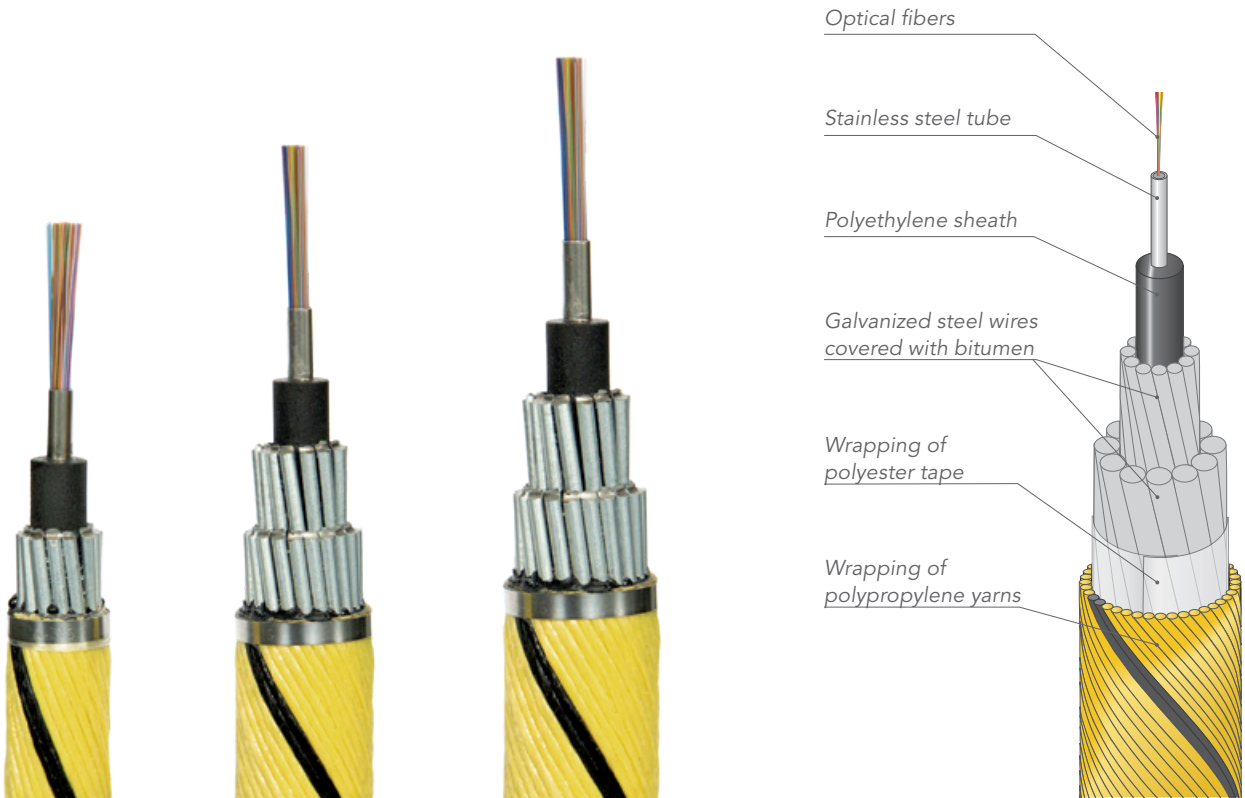
For a wider selection of products from Hexatronic Cables & Interconnect Systems, please refer to the main catalogue Fiber Solutions for Access and Transport Networks or visit www.hexatronic.com.

Hexatronic's catalogues are also available online at [issuu: issuu.hexatronicpartners.se](http://issuu.hexatronicpartners.se).



Contact the Hexatronic sales team to find your nearest wholesaler

+46 (0) 10 - 453 02 00
order@hexatronic.com



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 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

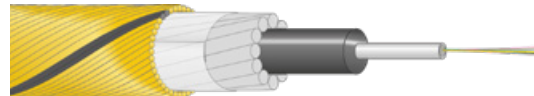
Single armored, loose tube cable where moderate protection is required.

DESIGN: Loose tube, single armor

TYPE: 10 ton, ≤ 3000 m

CAPACITY: 12-192 fibers

WATER DEPTH: ≤ 3000 m



Loose Tube, GJLTM 15 ton SAH

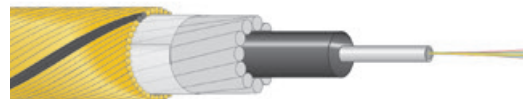
Single armored, loose tube cable where high protection is required. This cable has the same principal design as the GJLTM 10 ton SA.

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

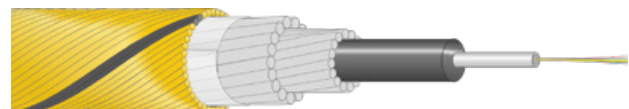
Double armored, loose tube cable where high protection is required.

DESIGN: Loose tube, double armor

TYPE: 15 ton, ≤ 3000 m

CAPACITY: 12-192 fibers

WATER DEPTH: ≤ 3000 m



Loose Tube, GJLTTM 25 ton DA

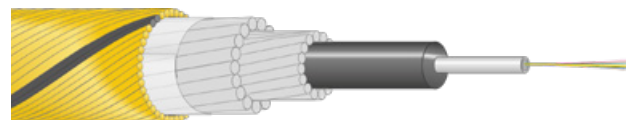
Double armored, loose tube cable where very high protection is required. This cable has the same principal design as the GJLTTM 15 ton DAL.

DESIGN: Loose tube, double armor

TYPE: 25 ton, ≤ 3000 m

CAPACITY: 12-192 fibers

WATER DEPTH: ≤ 3000 m



Loose Tube, GJLTTM 40 ton DAH

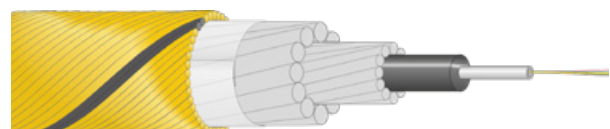
Double armored, loose tube cable where ultimate protection is required. This cable has the same principal design as the GJLTTM 15 ton DAL.

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: 12-48 fibers

WATER DEPTH: ≤ 3000 m



Loose Tube, GJZLTM 10 ton SA

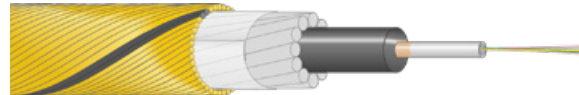
Single armored, loose tube cable where moderate protection is required. The cable incorporates a copper layer around the stainless steel tube for electroding.

DESIGN: Loose tube, single armor, electroding

TYPE: 10 ton, ≤ 3000 m

CAPACITY: 12-48 fibers

WATER DEPTH: ≤ 3000 m



Loose Tube, GJZLTM 15 ton SAH

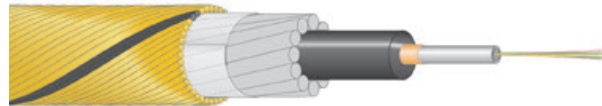
Single armored, loose tube cable where higher protection is required. This cable has the same principal design as the GJZLTM 10 ton SA.

DESIGN: Loose tube, single armor, electroding

TYPE: 15 ton, ≤ 3000 m

CAPACITY: 12-48 fibers

WATER DEPTH: ≤ 3000 m



ELECTRODING – DOUBLE ARMORED SUBMARINE CABLE

Loose Tube, GJZLTTM 15 ton DAL

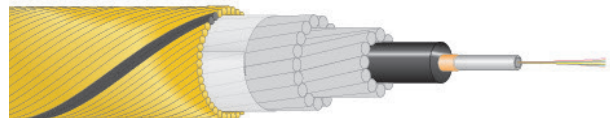
Double armored, loose tube cable where high protection is required. The cable incorporates a copper layer around the steel tube for electroding.

DESIGN: Loose tube, single armor, electroding

TYPE: 15 ton, ≤ 3000 m

CAPACITY: 12-48 fibers

WATER DEPTH: ≤ 3000 m



Loose Tube, GJZLTTM 25 ton DA

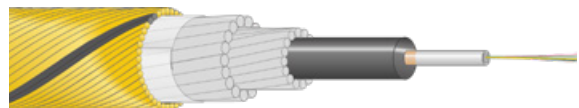
Double armored, loose tube cable where very high protection is required. This cable has the same principal design as GJZLTTM 15 ton DAL.

DESIGN: Loose tube, double armor, electroding

TYPE: 25 ton, ≤ 3000 m

CAPACITY: 12-48 fibers

WATER DEPTH: ≤ 3000 m



Loose Tube, GJZLTTM 40 ton DAH

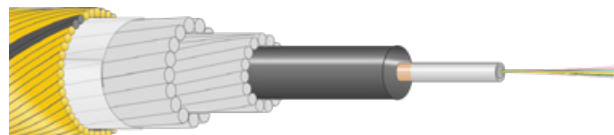
Double armored, loose tube cable where ultimate protection is required. This cable has the same principal design as GJLTTM 15 ton DAL.

DESIGN: Loose tube, double armor, electroding

TYPE: 40 ton, ≤ 3000 m

CAPACITY: 12-48 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 for some cable types this joint type is used in installation projects of new systems.

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



Picture courtesy of NKT

Efficient Delivery **Worldwide**

Hexatronic prides itself on fast response and turnaround 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;

- Angola
- Australia
- Bahrain
- Ghana
- Iceland
- Japan
- Korea
- Lake Ontario (USA – Canada)
- New Zealand
- Nigeria
- Norway
- Saudi
- Sweden
- Thailand
- The Adriatic
- The Baltic Sea
- The Caribbean
- The North Sea
- The Philippines
- The USA
- Various oil platforms



Hexatronic Submarine Cables

For more information about Hexatronic's Submarine Cable Offering please contact Anders Ljung, Business Manager Submarine Solutions anders.ljung@hexatronic.com

A part of Hexatronic Group

Hexatronic Group specializes in product and system solutions primarily within fiber communications. The Group offers a broad range of products and system solutions with a focus on infrastructure for passive fiber optics. Hexatronic has the stability and resources of a large Group, combined with the flexibility and speed of a small company.

Hexatronic is based in Sweden, but operates in a global market. Our customers are companies in the telecommunications industry, such as telecom operators, network owners, distributors and systems integrators. The Groups headquarters are in Sweden with sales offices and subsidiaries in Sweden, Norway, Finland, Great Britain, Germany, New Zealand, the United States and China. The Hexatronic share is listed on Nasdaq Stockholm.

For more information about Hexatronic Group:
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