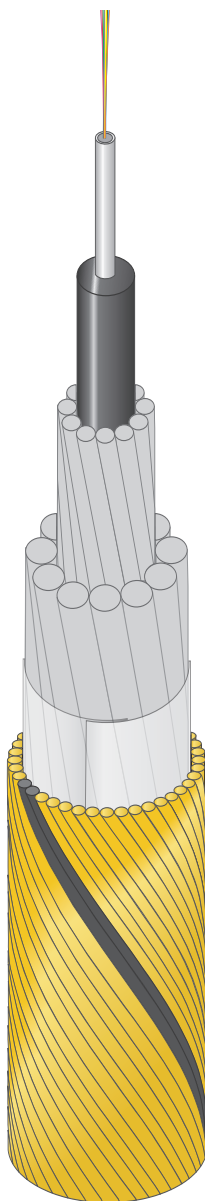


## GJMLTV 40-ton DAH, 12-192 Fibers

### Loose Tube Submarine Fiber Optic Cable



#### Features

- For unrepeatereated systems
- Water depth 3000 m
- Compact design, only 32 mm in diameter
- 12-96 optical fibers
- With or without electroding conductor
- Double layer steel wire reinforcement
- Hydrogen protected
- Outer protection polypropylene yarns or polyethylene sheath

#### Application

GJMLTV, 40-ton DAH is a double layer armored, loose tube cable for submarine installation where high protection is required.

This submarine cable is based on a hermetically sealed stainless tube. Inside the tube the fibers are free to move in a thixotropic water blocking compound. The steel tube is protected by a polyethylene sheath. Outside the sheath there are two layers of galvanized steel wires. The steel wires are flooded in bitumen.

The complete cable is wrapped with a layer of polypropylene yarns or a polyethylene sheath.

The steel wire reinforcement provides reliable mechanical protection, enabling installation and operation during rough conditions.

High packing density of the fibers is provided by the loose tube technique. This permits a small outer diameter and easy handling of the cable.

The fibers are easy to identify due to color and colored yarns.



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### Typical Data

Temperature range

Operation .....-30 till +60°C

Storage.....-40 till +70°C

Installation .....-15 till +40°C

Maximum water depths

.....3000 m

Bend radius

No tensile load.....≥ 0.5 m

With tensile load.....≥ 1.5 m

Coiling .....≥ 1.5 m

Dimensions

Diameter.....32 mm

Weight

In air.....3.4 kg/m

In seawater.....2.7 kg/m

Tensile force

UTS.....≥ 520 kN

FBL .....≥ 520 kN

NTTS .....400 kN

NOTS .....260 kN

NPTS .....200 kN

Mechanical and environmental test in accordance with IEC 60794-1-21 and IEC 60794-1-22

Electroding conductor

Electrical resistance .....7 Ω /km

Cable markers

The submarine cable is marked with kilometer markers and factory joint markers.

### Ordering Information

Upon ordering, specify the following parameters:

- Fiber type
- Number of fibers
- Fiber color coding scheme
- With- or without electroding conductor
- Sheath type (PP yarns or PE Sheath)
- Length

Contact Hexatronic for further assistance.

Delivery information

The cable is supplied in any length in coil

### Design

1. Primary coated fiber ..... Silica, acrylate
2. Filling compound ..... Thixotropic compound
3. Tube ..... Stainless steel
4. Sheath ..... Polyethylene, black
5. Armoring..... Galvanized steel wires, double layer  
12 x ø3.8 mm and 16 x ø4.4 mm
- 6 Filling compound..... Bitumen
- 7 Wrapping ..... Plastic tape

