

# Submarine Cable Double Armored

GJLTTM 12-192 fibers 25-ton DA / GJZLTTM 12-192 fibers 25-ton DA

# **Features**

- Unrepeatered
- Water depth 3000 m
- Compact design, only 28 mm in diameter
- 12-192 optical fibers
- With or without electroding conductor
- Double layer steel wire reinforcement
- Hydrogen protected
- Outer protection polypropylene yarns



# **Application**

The 25-ton DA 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.

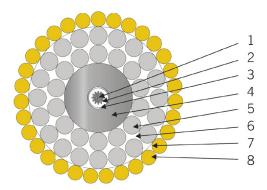
The complete cable is wrapped with a layer of polypropylene yarns.

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 colored for easy identification.

## **Product Information**



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 14 x ø3.0 and 20 x ø3.0 mm

6 Filling compound: Bitumen

7 Wrapping: Plastic tape

8 Wrapping: Polypropylene yarns



### **Technical Information**

Product Color Yellow with black contrast yarns.

Temperature, Operation [°C] -30 to +60

Temperature, Storage [°C] -40 till +70

Temperature, Installation [°C] -15 till +40

Diameter Ø [mm] 28

Max. Water Depth [m] 3000

Bend Radius, No Load [mm] 500

Bend Radius With Tensile Load [mm] 1500

Bend Radius Coiling [mm] 1500

Weight [kg/km] 2300

Weight in Seawater [kg/km] 1800

Tensile Force UTS [kN] 320

Tensile Force FBL [kN] 320

Tensile Force NTTS [kN] 250

Tensile Force NOTS [kN] 170

Tensile Force NTPS [kN] 120

Crush Resistance [N/100 mm] 20000

Impact Resistance [J] 300

Marking The submarine cable is marked with kilometer markers

and factory joint markers.

Technical Notes Mechanical and environmental test in accordance with

IEC 60794-1-21 and IEC 60794-1-22

Ordering Information Fiber specification

Fiber count

With or without electroding conductor

Fiber color code

The cable is supplied in coil, on drum or in container.