

Uppgjord (även faktaansvarig om annan) - Prepared (also subject responsible if other)		Nr - No.		
HCI/T Tobias Borg		1301-TOL 404 1211		
Dokansv/Godk - Doc respons/Approved	Kontr - Checked	Datum - Date	Rev	File
HCI/T Thomas Ericsson	Nonii Onconca	2019-04-23	Λ	
ITCI/T THOMAS ENGSSON		2019-04-23	^	

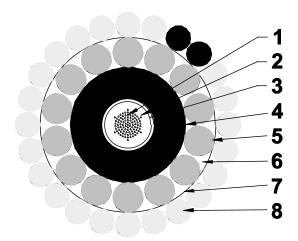
OPTICAL SUBMARINE CABLE, GJLTM 144/T144 G.652.D 10 ton SA

DESIGN

		Diameter [mm]
	Optical fibres, coloured (bundled into groups with yarns)	0.25
2	Filling compound	
3	Stainless steel tube	5.3
4	Sheath: Polyethylene, black	11.5
5	Armouring: Galvanized steel wires, single layer	
	Wire diameter = 3.0 mm	18
6	Filling compound: Bitumen	
7	Wrapping: Plastic tape	
8	Polypropylene yarns (Yellow with black stripe)	22

CROSS SECTION

144 FIBRES



Alternative C:

COLOUR CODING

Yarn color:

1-Blue, 2-Orange, 3-Green, 4-Brown, 5-Grey, 6-White

Fibre in each bundle (fibre 13-24 is ring marked, where fibre 20 is uncoloured): 1-Blue, 2-Orange, 3-Green, 4-Brown, 5-Grey, 6-White, 7-Red, 8-Black, 9-Yellow, 10-Violet, 11-Pink, 12-Turquoise, 13-Blue-ring, 14-Orange-ring, 15-Green-ring, 16-Brown-ring, 17-Grey-ring, 18-White-ring, 19-Red-ring, 20-Uncolored-ring, 21-Yellow-ring, 22-Violet-ring, 23-Pink-ring, 24-Turquoise-ring



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CABLE MARKERS

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

CABLE PROPERTIES

Temperature range: operation [°C] storage [°C] handling [°C]	-30 to +60 -40 to +70 -15 to +40
Tensile strength: Cable break load CBL [kN] Fibre break load FBL [kN] Short term tension NTTS [kN] Operating tension NOTS [kN] Permanent tension NPTS [kN]	≥ 130 ≥ 130 ≤ 100 ≤ 70 ≤ 50
Impact ¹ [J] Crush resistance ¹ [kN/100 mm]	≤ 200 ≤ 10
Cable bend: loaded cable, radius [m] unloaded, radius [m]	≥ 1.5 ≥ 0.5
Coil diameter [m]	\geq 3.0
Water depth [m] Hydrodynamic constant [deg x Knots] Stowage factor [km/m³] Cable net weight in air [kg/m] Cable net weight in water [kg/m]	≤ 500 83 2.1 1.1 0.8

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

OPTICAL CHARACTERISTICS

Optical fibre specification 1301-TOF 401 1019 (G.652.D)

REFERENCES

[1] 1301-TOF4011019+ Fibre specification

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¹ Attenuation increase ≤ 0.05 dB, No break on cable members

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