# HÖHLE TECHNICAL DATA SHEET



## SingleHöhle 8/4,4 DB

Höhle microducts are designed for long term protection of fiber optical cables. Direct Bury (DB) type of microducts are thickwalled products that attain their mechanical robustness and functional performance through their intrinsic thick walls and need no further protection at underground installations.

SingleHöhle is made of high density polyethylene (HDPE) material with co-extruded silicone core inner liner together with longitudinal grooves obtaining coefficient of friction less than 0,1.

www.hohle.ee

### **//////// DIMENSIONAL REQUIREMENTS:**

- criteria: required value or tolerance / standard
- outer diameter: min 7,9 mm and max 8,1 mm / EN 50411 6 1: 2011 (test method Annex A: A1)
- inner diameter: min 4,3 mm / EN 50411 6 1: 2011 (test method Annex A: A2)
- wall thickness: min 1,7 mm / EN 50411 6 1: 2011
- ovality before coiling: 5% / EN 50411 6 1: 2011 ((ODmax- ODmin)/ODmean)x100%)
- inner clearance test: 3,5 mm sphere through all length of coil / IEC 60974 -1-21 Method E23

#### **/////// PERFORMANCE REQUIREMENTS:**

- criteria: requirement / standard
- burst pressure: no damage, no leaks at 18 bar at water 20 degrees Celcius for 30 min / EN 50411 - 6 - 1: 2011 (test method Annex B);
- tensile performance: no damage after load 720 N for 10 min test / IEC 60794 1-21, Method E1;
- kinking: no damage or kinking during loop min diameter (20x OD) of the microduct / EN 60794 - 1-2, Method E10;
- crush: no damage after load of 2000 N for 1 min / IEC 60794 1-21, Method E3;
- impact: no damage after strike with energy of 15J / IEC 60794 1 21, Method E4;
- bending: no damage after the bending 3x around 40x OD U-shape (180 degrees) / IEC 60794 - 1- 2, Method E11B
- ageing: to meet burst pressure and dimensional requirements after test / EN 60793 - 1 - 51 dry heat;
- inner clearance test: to confirm 85% inner diameter of short length of test piece / IEC 60794-1-21 Annex E;
- **coefficient of friction:** tension around a curve 1040 mm according to IEC 62470, CoF less than 0,1



#### **OTHER INFORMATION:**

- **marking:** HÖHLE silicone core microduct SingleHöhle 8/4,4 DB "date batch nr length in meters" or according customer specification.
- colours: plain colour or natural white with coloured stripes; depends on customer specification
  - packing: on wooden drum with dimensions 1200 x 920 mm
- transport and storage temperatures: from -40 C to +70 C
- installation temperatures: from -10 C to + 50 C
- minimum bending radius: 80 mm
  - recommended cable dimensions for blowing: from 1,3 to 3,1 mm
- for outdoor storage: with UV protection film as packed in factory.

#### **WINNING WE VALUE ENVIRONMENTAL AND SUSTAINABLE WAY OF ACTING:**

- our wooden drums could be reused contact Versowood Estonia OÜ, versowood.fi
- all plastic materials left would be recycled by Weerec OÜ, weerec.ee