

## High Temperature DTS Cable for Downhole Monitoring (7)

**Cable Number:** CSS1001P (Maximum application temperature: 300°C)

**Cable structure:** composed of SS316L capillary tube and specialty fiber (see Figure)

**Mechanical Characteristics:**

Stainless steel tubing material: SS316L	Cable outside diameter: 6.35mm
Tubing thickness: 0.89mm	Weight: 122.2kg/km
Tensile strength: 960kg	Pull load (yield point): 530kg
Thermal expansion coefficient: $16.6 \times 10^{-6} \text{m/m}^\circ\text{C}$	Work pressure limit: 40MPa
Standards: ASME: A 269; NACE MR0175/ISO 15156-3: Table A.7	

**Optical Fiber:** Fiber tension free design

One or two polyimide coated multimode fibers, graded index fiber,  
50/125/155um

Or: One polyimide coated single mode fiber, Silica/Silica fiber, 9/125/155um

**Cable Toe End Termination:** Upon customer request.

Or: Upon UniSignal design:

Hermetic seal (no moving parts)

Special mechanical and optical designs at the fiber end

