

High Temperature DTS Cable for Downhole Monitoring (6) (Enhanced)

Cable Number: CAE2001J (Maximum application temperature: 700°C)

Cable structure: composed of high nickel alloy capillary tube and specialty fiber (see Figure)

Mechanical Characteristics (Enhanced):

High nickel alloy tubing material: Inconel 625	Cable outside diameter: 6.35mm
Tubing thickness: 0.89mm	Weight: 128.53kg/km
Tensile strength: 1585kg	Pull load (yield point): 1123kg
Thermal expansion coefficient: $12.9 \times 10^{-6} \text{m/m}^\circ\text{C}$	Work pressure limit: 135MPa
Standards: ASME: B 704; NACE MR0175/ISO 15156-3: Table A.12 (4d), A.14	

Optical Fiber: Fiber tension free design

One gold coated multimode fiber, graded index fiber, 50/125/155um
Or: One gold 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

