

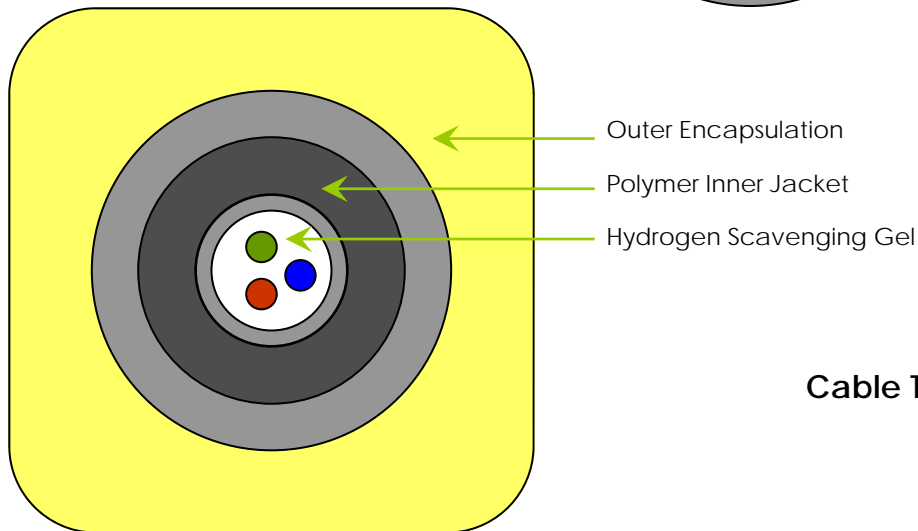
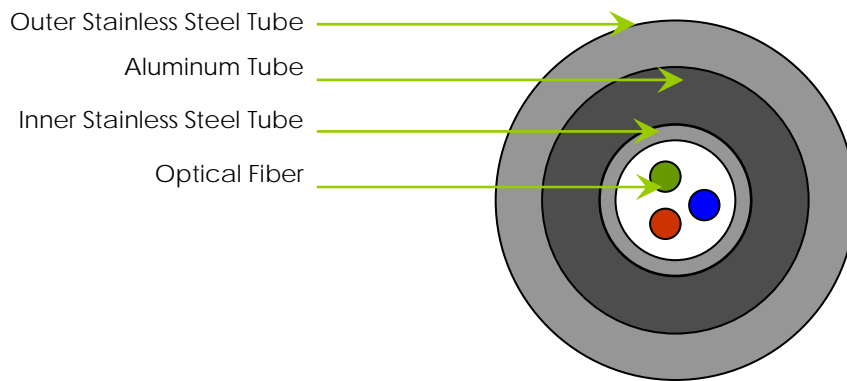
SENSING CABLES

Ruggedized for Downhole Applications



Companion Cables for SensorTran DTS Systems

The drawings below show the construction of two types of cables typically used for downhole monitoring:





The cables typically used in downhole monitoring applications are designed to withstand elevated temperatures, high pressure, and corrosive environments. While the basic cable components (as shown on previous page) are typical, the thickness and material of the outer wall can be varied to yield a more robust or more flexible cable, depending the user requirements. The specifications are provided as ranges to encompass a variety of cables appropriate for deployment downhole.

Downhole Optical Sensing Cables			
Optical Fiber	Single-mode Multimode Pure Silica Core	Operating Temperature	-40°C to +300°C (-40°F to +572°F)
Fiber Coating	Polyimide, Carbon Polyimide, Silicon/ PFA	Gel Compound Options	None, Standard, Hydrogen Scavenging
Gel Compound Options	Thixotropic Hydrogen	Polymer Options	Polypropylene, PVDF, Nylon, Santoprene™
Inner Stainless Steel Tube Diameter	1.8 mm - 3.2 mm (0.071" - 0.126")	Operating Pressure Limit	0 - 1406.5 kg/mm ² (0 - 20,000 psi)
Outer Tube Wall Thickness	.71mm - 1.2mm (0.028" - 0.049")	Outer Tube Material	SS 316L, SS304, Incoloy™ 825
Outer Tube Diameter	6.35 mm (0.25")	Cable Weight	Varies, dependent



SENSORTRAN

Optical Conclusions

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