



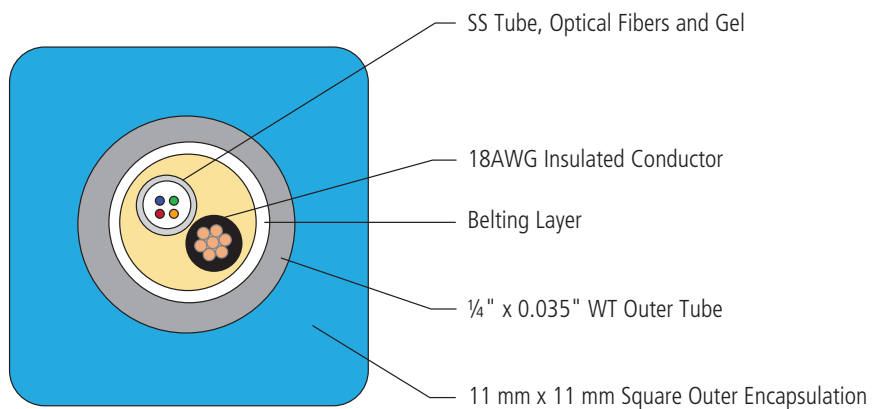
Hybrid Downhole Cable

Hybrid Downhole cable from AFL combines copper conductor and optical fibers within the same cable structure for simultaneous deployment. This construction is intended to withstand elevated temperatures, high pressure and corrosive environments. The cable may be customized to the customer's specifications in order to balance performance capability with cost considerations. This design is targeted toward well applications than have operating temperatures $\leq 150^{\circ}\text{C}$.

Features

- Up to 150°C
- Incorporates insulated 18AWG copper conductor
- Loose tube design for optical fibers
- Hydrogen scavenging gel
- Customized to customer specifications

Cable Components



Options and Specifications

PARAMETER	VALUE
Inner Stainless Steel Tube Diameter	0.071"
Copper Conductors	1 x 18 AWG
Outer Tube Diameter	0.250"
Outer Tube Wall Thickness	0.035"
Outer Tube Material	Stainless Steel 316L, Incoloy® 825
Fiber Types	Single-mode, Multimode
Gel Types	Hydrogen scavenging gel
Encapsulation Options	None, 11 mm x 11 mm Square, 11 mm Round
Polymer Types	Polypropylene, PVDF, Nylon, Santoprene™
Operating Temperature	-40°C to 150°C
Operating Pressure Limit	0 to 20,000 psi