

StreamLINE iX extreme-performance polymer-locked wireline cable

Efficient, reliable, greaseless conveyance for production services in all wellbore and operating environments



Temperature:

Rated to 375 degF [191 degC]



Environmentally responsible:

Greaseless operations



Available in two sizes for both standard and sour conditions:

2-35 cable for regular services

2-44 cable for high-power services

Applications

- Conveyance for production and intervention operations in any environment, including extreme conditions such as extended-reach drilling (ERD) wells, tortuous trajectories, and sour conditions
 - Well diagnostics: production logging, flow monitoring, and Pulsar* multifunction spectroscopy service
 - Well intervention: ReSOLVE* instrumented wireline intervention and ReSOLVE iX* extreme-performance instrumented wireline intervention service
 - Access and egress in long laterals: TuffTRAC* cased hole services tractor and TuffTRAC iX* extreme-performance wireline tractor
 - Extreme perforating deployment: XR-Perf* expanded-range wireline perforating system
- Services with high power requirements
- Combined wireline-slickline deployments
- Environmentally sensitive operations
- Limited-footprint sites

Key features

- Coaxial cable in two sizes for both standard and H₂S-resistant conditions
- Polymer-locked core to form a single element for high integrity
- Torque-balanced and smooth-jacketed cable
- Gas-blocked technology

- High strength-to-weight ratio
- High power capacity
- Up to 11,000 lbf safe working load (SWL)

How it improves access to wells

Polymer-locked, gas-blocked, and torque-balanced StreamLINE iX* wireline cable is the industry's ultimate wireline cable, engineered to address all challenges related to conventional wireline deployment in well diagnostics, intervention, workover, and completion operations. Optimized to work in all environments, this coaxial cable is available in standard and sour versions. With its high-strength alloy armors in combination with the fully encapsulated termination, the sour version of StreamLINE iX cable is ideal for extreme sour downhole conditions, preventing any gas migration.

StreamLINE iX cable delivers significant efficiency gains by eliminating grease injection and its environmental concerns for well control; the risks posed by armor stranding, birdcaging, and corrosion; maintenance trips to address twisting; and cable seasoning requirements. The result is highly reduced operational risk and the costs and time generated by maintenance-related logistics.

How it works

StreamLINE iX cable innovatively polymer locks the cable armors and its core into a single element that is torque balanced and provides a high strength-to-weight ratio. The smooth jacket brings the additional benefit of reduced cable friction and eliminates the use of grease to maintain well control with only a dual packoff.

High-performance access for all basins

Fit for any basin, coaxial StreamLINE iX cable is available in two sizes for both standard and sour and conditions. Its unique capabilities make it the only wireline cable needed to convey any production-related technology in your basin environment.



The gas-blocked and torque-balanced StreamLINE iX wireline cable is engineered using the only patented polymer-coating technique, locking the cable core and its armors to form a single element for high integrity in any environment.

High power capacity for the most advanced operations

The 2-44 cable is fitted with 13 AWG conductor to reliably deliver the highest power downhole, even in extended-length laterals. This high power delivery, in combination with the cable's friction-reducing smooth polymer-locked jacket and high strength-to-weight ratio, makes StreamLINE iX cable the optimum choice for advanced tractor wireline intervention operations in the deepest, most complex laterals, such as in the Middle East.

Because StreamLINE iX cable is essentially a single element, it has the highest possible integrity for performing basic slickline operations. The ability to support both wireline and slickline operations with a single unit and cable unlocks higher operational efficiency and reduces HSE risk, especially for deepwater rigs and lightweight intervention vessels, such as in the Gulf of Mexico and the North Sea.

StreamLINE iX

Specifications

Asset code	2-35		2-44 for High Power	
	Standard	Sour	Standard	Sour
	2-35KZA-SLC	2-35KZA-MO-SLC	2-44KZA-SLC	2-44KZA-MO-SLC
General				
SWL with Tension Device Link (TDL), [†] lbf [kN]	5,000 [22.2]	4,500 [20]	11,000 [48.9]	8,000 [35.6]
Cable nominal OD, in [mm]	0.350 [8.890]	0.350 [8.890]	0.451 [11.455]	0.451 [11.455]
Diameter variation, in [mm]	0.003 [0.076]	0.003 [0.076]	0.004 [0.098]	0.004 [0.098]
Electrical properties				
DC resistance at 68 degF [20 degC], ohm/1,000 ft [ohm/km]	AWG 16 (center): 4.3 [14.1]	AWG 16 (center): 5.6 [18.4]	AWG 13 (center): 2.2 [7.1]	AWG 13 (center): 2.8 [9.2]
Serve, ohm/1,000 ft [ohm/km]	4.1 [13.4]	5.1 [16.7]	1.2 [3.9]	1.6 [5.2]
Armor, ohm/1,000 ft [ohm/km]	3.4 [11.2]	21.37 [70.1]	2.08 [6.82]	11.52 [37.8]
Voltage rating				
Conductor, V DC [V rms]	1,100 [778]	1,100 [778]	1,750 [1,250]	1,750 [1,250]
Serve to armor, V DC [V rms]	300 [214.3]	300 [214.3]	300 [214.3]	300 [214.3]
Current rating (conductor), A	2.61	2.61	5.2	5.2
Insulation resistance at 500 V, megohm.1,000 ft [megohm.km]	>15,000 [>4,572]	>15,000 [>4,572]	>15,000 [>4,572]	>15,000 [>4,572]
Capacitance at 1 kHz, pF/ft [pF/m]	<67 [<220]	<77 [<252]	<55 [<180]	<55 [<180]
Mechanical properties				
Calculated weight				
In air, lbm/1,000 ft [kg/km]	154 [229]	163 [243]	294 [438]	297 [442]
In freshwater, lbm/1,000 ft [kg/km]	113 [168]	121 [180]	225 [334]	227 [338]
Temperature rating				
24 hours, degF [degC]	375 [191]	375 [191]	375 [191]	375 [191]
Minimum temperature, degF [degC]	-40 [-40]	-40 [-40]	-40 [-40]	-40 [-40]
Minimum storage temperature, degF [degC]	-60 [-51]	-60 [-51]	-60 [-51]	-60 [-51]

[†]If cable-mounted tension device (CMTD) is used, SWL is slightly lower. Contact Schlumberger for more information.
All values are subject to change without notice.

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