

CONVEYANCE & RISK MITIGATION

Releasable Wireline Cable Head (RWCH™ tool)

Helps free stuck tools and avoid fishing operations

BENEFITS

The RWCH tool offers several advantages over the standard-tension cable head, including:

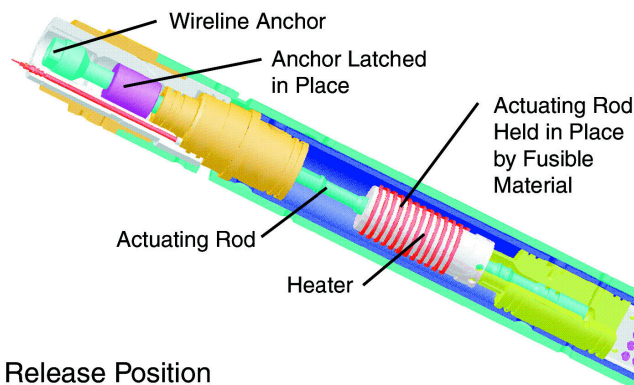
- Enables greater pulling of stuck tools at any depth and in any conditions
- Can support heavy tool strings by using the full strength of the wireline, regardless of depth
- Electrically controls release from the surface
- Contains a conventional 2.31-in. (58.74-mm) fishing neck
- Includes a special sub designed to enable easy rig up and rig down
- Enables maximum pull to be applied at any depth in the well, regardless of total depth, if the backup weak point is not used
- Enables release to be aborted as long as fusible alloy has not reached melting temperature

Overview

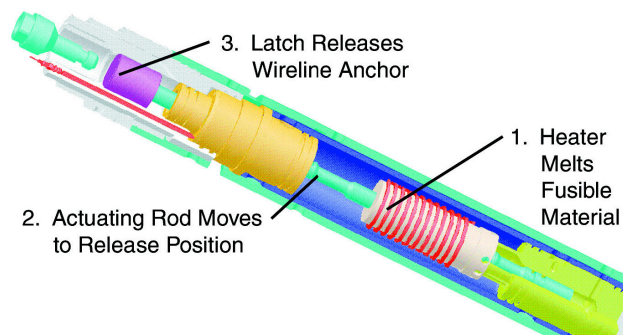
The Releasable Wireline Cable Head (RWCH™ tool) has an electrically activated wireline-release system instead of the tension-activated release system of conventional cable heads. Tension-activated cable heads require a safety factor to avoid premature release of the wireline. This safety factor prevents you from using the full safe load on the wireline when trying to free stuck tools from the borehole. The RWCH tool enables you to use this extra tension, which has proven very successful at freeing stuck tools and avoiding fishing operations. This extra pull also enables you to safely run heavy tool strings in deep wells.

The RWCH tool can reduce the costs of obtaining wireline logs in areas that are prone to sticking. It has reduced the incidence of fishing for stuck tools in problem areas, saving operators from expensive and risky fishing jobs.

Closed Position



Release Position



RWCH operation

HAL50832

Health, safety, and environmental benefits

- Personnel and equipment face a higher risk of injury or damage during a fishing operation than in a normal logging operation. By reducing the incidence of fishing operations, the RWCH reduces overall risk to personnel and equipment
- The RWCH decreases the incidence of fishing and is beneficial in situations where leaving tools downhole is an environmental hazard

Releasable Wireline Cable Head (RWCH™) specifications

	LENGTH	DIAMETER	MAXIMUM PRESSURE	MAXIMUM TEMPERATURE	WEIGHT
	FT (M)	IN. (MM)	PSI (MPA)	°F (°C)	LB (KG)
Standard	6.3 (1.9)	3.63 (92.20)	20,000 (137.9)	350 (176.7)	135 (61.2)
Hostile	13.5 (4.12)	3.13 (79.50)	30,000 (207)	500 (260)	243 (110)
Ultrahigh Pressure	6.24 (1.90)	4.44 (112.76)	35,000 (241)	350 (170)	221.68 (100.55)

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