

Made by: HEO	Checked by: MAL	Approved by: TOM
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Technical Datasheet, Termination Head



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1 FUNCTIONAL DESCRIPTION

The termination head is made to be casted onto a wire reinforced cable or wire rope in diameters up to 130mm using traditional Wirelock or similar casting compound. The termination head can be used with a single or a dual pull flange adapter, both with an axial safe working load of 9.8 tonne¹. The dual pull adapter allows for loop testing of wires with the termination head mounted but will require additional rigging and framework/sealing when casting the connection. The adapters are interchangeable, and the termination assembly can be re-used. The termination head is made to be used for dynamic cable testing in conjunction with the [ProHydraulic Cable tension testing](#). Other sizes and functions can be achieved and manufactured by request.

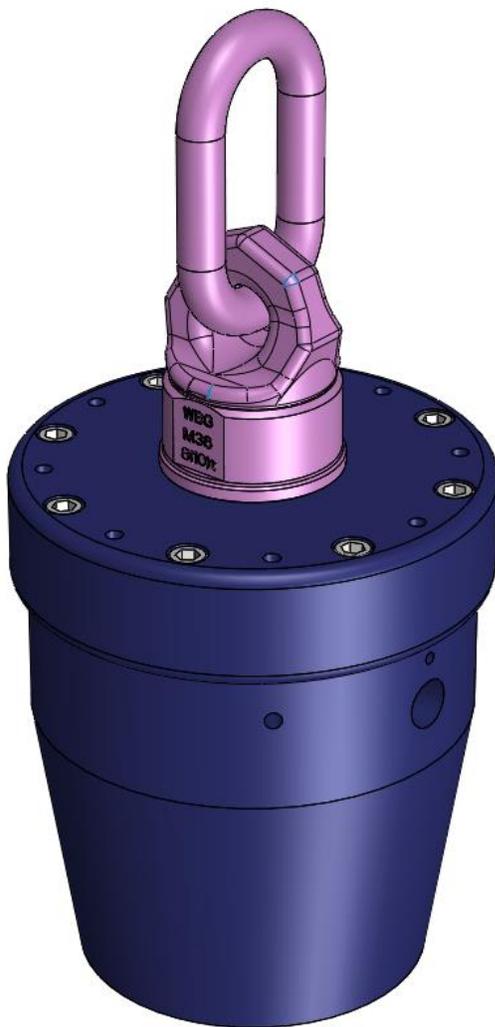


Figure 1 Single Point Termination Head Adapter

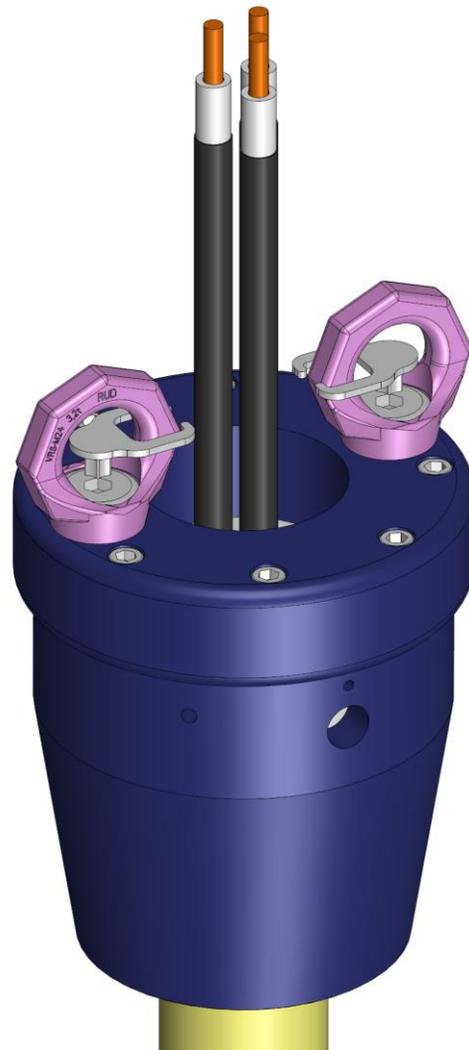


Figure 2 Dual Point Termination Head Adapter

¹ For angular pulls please refer to standard DIN 580 for deduction of SWL for eyebolts.

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2 COMPONENTS

Figure 3 shows typical components of a termination head and cable assembly. The housing and lifting adapter come standard with Xylan coated carbon steel, whilst the bolts are property class 8.8 with el zinc.

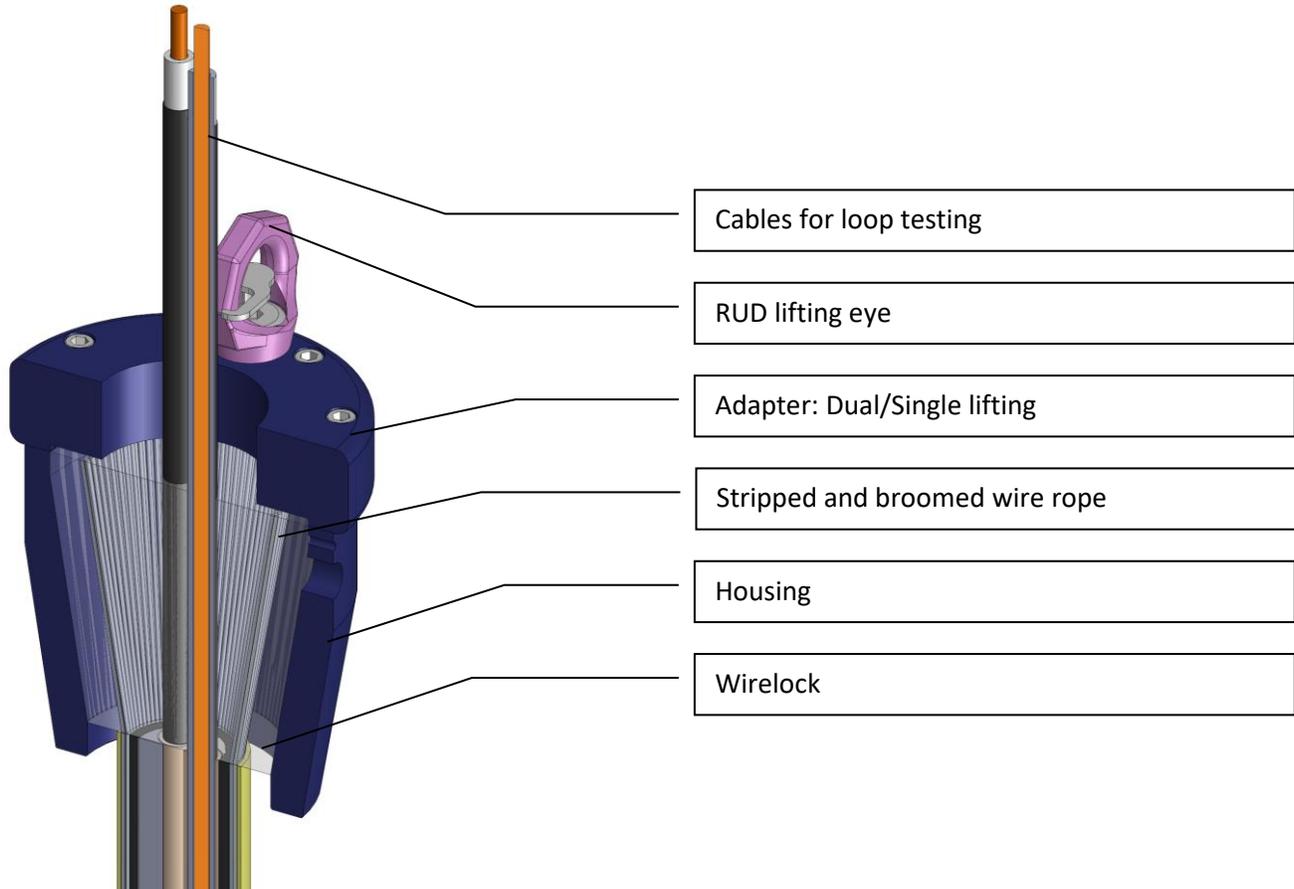


Figure 3 Termination head assembly, component overview

Description		Value	Units
SWL		9.8	tonne
Cable/Wire size		<130	mm
Standards, Wirelock casting		ISO 17558	
		EN13411	
Approximate casting volume		3.5	Litre
Weight	Single lift	52	Kg
	Dual lift	40	Kg
Material	Housing	Xylan coated Carbon steel	
	Adapters	Xyland coated Carbon steel	
	Bolts	ElZn 8.8	
	Eyebolts	Multi	

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3 LOCKING OF TERMINATION HEAD TO WIRE

After stripping and brooming the cable/wire clastaline or clay putty should be used to seal off and contain areas for the wirelock compounds. This avoids leakage of wirelock compounds and risk of air pockets in the casting. It could also be used to avoid casting material to migrate into lower sections of cable assemblies.

The structural connection between the termination head and wire/cable is achived utilizing similar prinsiple for locking as tradisional wire sockets, where the wires and casting is wedged into the termination head housing, as illustrated in Figure 4.

To ease handling, the Wirelock compound can be added to the termination housing with the wire and termination assembly in a horizontal position through a filling port. A separate vent port allows for air to ble ventilated as the housing is filled avoiding air pockets. The termination head can be reused by cutting the cable/wire and removing the flanged lifting adapter and casted wedge. ProHydraulic can provide services for a qualified mounting of termination head per ISO 17558, EN 13411, and Wirelock technical instructions.

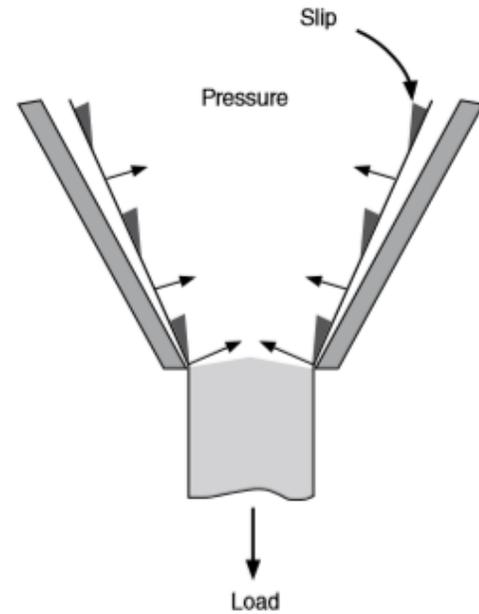


Figure 4 Load causes the cone to slip at the socket interface and the pressure generated locks the cone within the socket

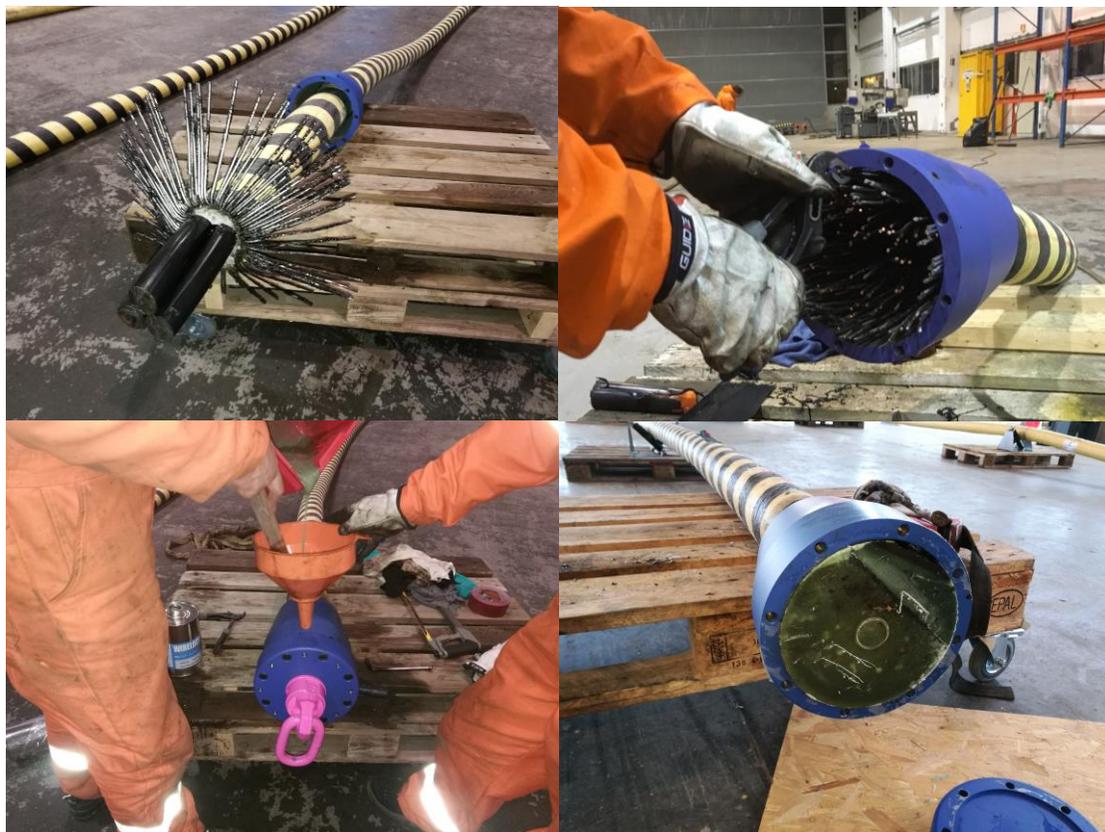


Figure 5 Casting of Termination Head