EA1504 Packer Penetrator and Crossover System





Useful for Mudline and Deep Set Packers

Packer Penetrator: 2 inch maximum diameter	Suitable for installation with limited space.	
Supplied with cable above and below the packer	Minimal training required for installers.	
Penetrators use separate cross-over adapters.	Ease of installation. No need to rotate the penetrator in the packer.	

Simplified Installation

Penetrators may be installed either above the packer or below the packer, with equivalent performance. Penetrators may be attached to ESP cable using splices or mechanical splice devices.

The Packer Penetrator is supplied with factory-installed cable on both sides of the packer. The recommended length is 30-ft of cable on both the top and bottom of the penetrator. Penetrators may be attached to ESP cables using conventional splices, or supplied factory molded to otor Lead Extensions.

These penetrators are installed using separate cross-over adapters, which thread directly into the packer, using pipe threads. This avoids the need to rotate the penetrator in the packer, when long sections of cable are attached.



EA1504 Crossover shown above the packer, and as a cut-away view. Assembly on left shown installed in a packer with larger secondary bore.



EA1504 Crossover shown below the packer, and as a cut-away view. Assembly on left is shown installed in a small secondary bore. ESP cable can be supplied with factory molded MLE to avoid splicing below the packer.

Performance Features

When used with deep-set packer, this penetrator can be installed below the packer, with an integrally molded motor lead extension attached. Using this configuration, splicing is eliminated within the harsh environment below the packer.

Packer Penetrators are manufactured with outer housings made from NACE compliant 4130 Alloy Steel, suitable for sour service. For situations demanding more corrosion resistant metallurgy, Series 410 corrosion resistant steel and Monel 400 are also offered. Cross-over adapters are offered in matching materials.

All cross-over adapters for these packer penetrators are supplied with two test ports, 180-degrees apart, to allow for verification of the O-rings seals between the penetrator and the sealing bore of the adapter.

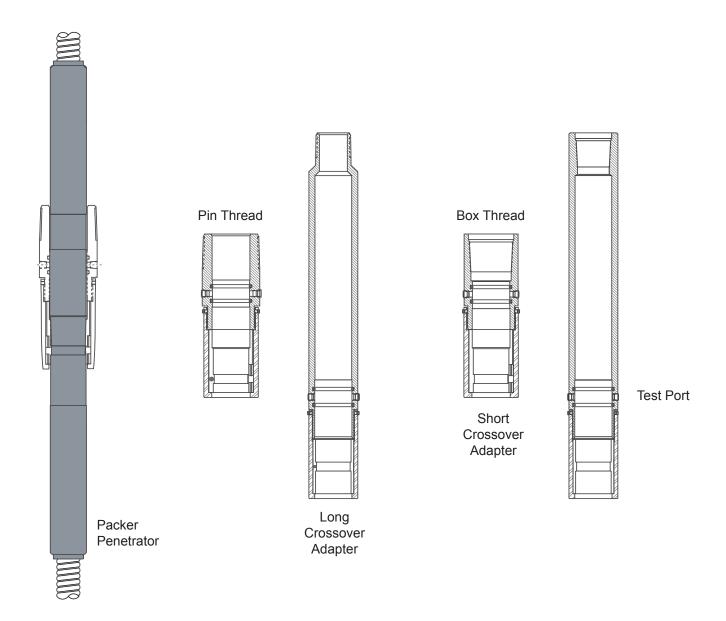
Rating Table

Voltage	5 kV	
Current	up to 140 A	
Temperature	300 °F (149 °C)	
Pressure	5000 psi	



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Options Table

Length	
Packer Penetrator	28 inch 711 mm
Long Crossover	20.3 inch
Adapter	516 mm
Short Crossover	9.08 inch
Adapter	231 mm

Diameter		
Crossover Adapter	2.6-3.09 inch	
	66- 78 mm	
Packer Penetrator	1.95-2.0 inches	
	44-51 mm	

Test Port Size	Thread (pin or box)	Material
1/8 inch NPT	1.9 NU-10 RD	4130 Alloy Steel
	2-3/8 EU-8RD	410 Stainless
	2-3/8 EU-10RD	Monel
	2-7/8 EU-8RD	

