

# DEFENDER CROSS COUPLING GUARD

## *The Ultimate in ESP Cable Protection*



The DASCO DEFENDER cross coupling (collar) guard was designed to reduce operator costs by preventing ESP cable failures. ESP high voltage cables are commonly damaged during the ESP installation from dragging and impacting casings, upsets and wellbore debris. This damage over time leads to electrical failure of the esp cable and the required pulling of the ESP at a significant cost to the operator.

This 3<sup>rd</sup> generation cable guard was designed and both lab and field tested to provide 3 main levels of protection.

1. Impact forces including a direct hit to the cable side do not compress the cable. (frame loading)
2. Maximize frictional cable hold against the tubing through precise machining fitment and cable path conduit.
3. Reduce the cost of ownership through extended life and reusability. Improved materials and designed for field redressing

### **THE DEFENDER ADVANTAGE**

1. Reduce Costs of Cable Failures
2. Encapsulated ESP Cable
3. Low Profile for Tight Wellbores
4. Cable Isolation From Impact “Frame Loading”
5. Clear Identification - No Wellsite Confusion
6. High DLS Applications



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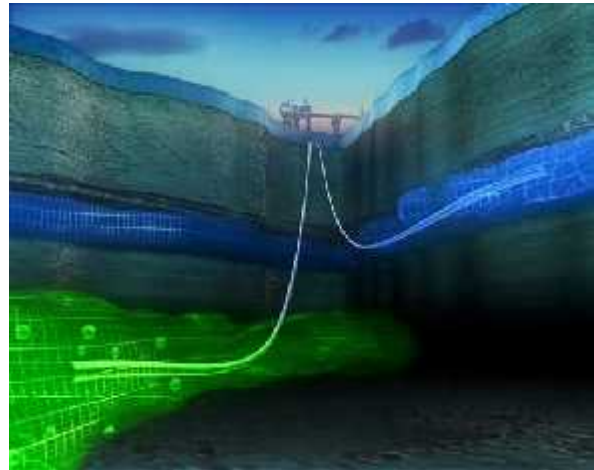
## *The Ultimate in ESP Cable Protection*

Tubing Size	Substrate	Cap Line # 1	Cap Line # 2	Max Cable Dia
2.375"	Cast Alloy Steel	/ Cap Line	/ Cap Line	#4 AWG
2.875"	Cast Alloy Steel	/ Cap Line	/ Cap Line	#2 AWG
3.500"	Cast Alloy Steel	/ Cap line	/ Cap Line	#1 AWG
4.500"	Cast Alloy Steel	/ Cap line	/ Cap Line	#1 AWG
5.500"	Cast Alloy Steel	/ Cap line	/ Cap Line	#1 AWG

*Custom sizes & configurations available.*

*Heavy duty machined from billet guards available*

Reduced Cost of Cable Failures + Reusable Product  
Maximum Frictional Cable Hold  
Cable is Isolated from Impacts



See how the DEFENDER CABLE GUARD system can save you time and money

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