

# DEFENDER MID JOINT GUARD

## *The Ultimate in ESP Cable Protection*



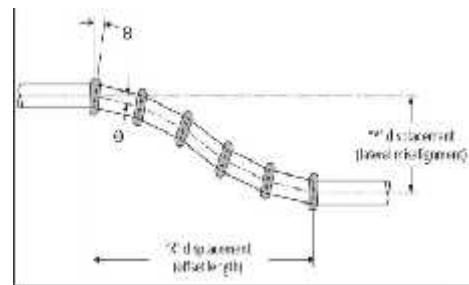
The DASCO DEFENDER mid joint guard was designed to reduce operator costs by preventing ESP cable failures. ESP high voltage cables are commonly damaged from dragging between the tubing collars when passing through a deviation or horizontal wellbore. This damage over time leads to electrical failure of the esp cable and the required pulling of the ESP at a significant cost to the operator. The mid joint guard solves this issue by centralizing the tubing between the collar connections ensuring the cables stays suspended off the wellbore casing.

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. Lift and isolate the cable from the casing wall during installation and operation in high DLS and horizontal wellbores.
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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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*

BEFORE



AFTER



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

DASCO ESP INC.

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