SAMPLE ONLY

SYNERGY

WIRE & CABLE

QUALITY
CONSISTENCY
FAST-TURNAROUND
SERVICE EXCELLENCE

Synergy Wire & Cable is a leader and proven pioneer in wireline and wireline drum manufacturing, and is solely dedicated to the needs of the oil and gas industry. We provide unique product lines, including our new patented Superior Machined Drum (SMD), to meet our customers' requirements and exceed our customers' expectations.

QUALITY

Careful attention to the materials used and the manufacturing methods employed, ensure **Synergy** Wire & Cable products meet the highest standards.

WIRELINE

- American-made, which is stronger, rounder and more concentric than those manufactured abroad
- Premium product including aircraft-quality steel wire for armoring
- Davis Standard insulation equipment uses lasers to ensure uniformity in thickness tolerances

LINE MADE IN THE U.S.A.

WIRELINE DRUMS

- Individually machined parts to ensure strength and reliability
- Perfectly balanced
- Exceeds industry-standard testing

GUARANTEE

Synergy Wire & Cable products will meet stated values and perform as designed, or we will replace it.

SERVICE COMMITMENT

Our first priority is to provide outstanding service. We provide the design capability and product innovation our customers require, and the quality and service our customers deserve.

SYNERGY

WIRE & CABLE

Established 1998

Sample Cable Packet

The information contained herein is of a fictional cable and is intended for example purposes only.

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Cable

932500-R125

Footage

30,000 ft.

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I. Buncher / Extruder Set-up & Production

II. Conductor Electrical Inspection

III. 1st Pass Armor Set-up

IV. 1st Pass Armor Run Sheet

V. 2nd Pass Armor Set-up

VI. 2nd Pass Armor Run Sheet

VII. Final Inspection Report

VIII. Pre-Ship Electrical Inspection

Proudly Made in The U.S.A.

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Buncher Machine Set-up

Strand Type	15 AWG	Date	1/4/2012
Strand Diameter	.062"	Operator	-
Wire Type	Copper		
Wire Diameter	.0126"		
Gathering Die Diameter	1.55mm		
Water Block	Oppanol B-12		

9/32" 500° Extruder Production/Set-Up Info

Cable # 932500-R125

Diameter: Min .1370" Nom .1390" Max .1410"

Core Gauge .062" Spark Tester 7 KV

Water Chiller ON

SYNERGY WIRE & CABLE

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PRE-ARMOR CONDUCTOR ELECTRICAL INSPECTION REPORT

CABLE #	FOOTAGE	TESTED
932500-R165	30,100 ft.	Passed

The above Conductor was charged and tested.
It has successfully held charge and is ready for the armor process.

Tested by: _____

Date of Test: 1/6/2012

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Armor Machine Set-up
1st Pass Armor

Cable Info.

Cable Type	9/32" 500°	Cable Number	932500-R125
Cable Diameter	.209"	Date	1/6/2012
Cable Length	30,050 ft.	Operator	-
Core Type	Insulated Conductor		
Core Diameter	.139"		
Lay Length	1.3"		
Lay Direction	Right		
Gathering Die Diameter	.207"		
Number Of Lays	3		
Wire Diameter	.040"		
Preform %	80%		
Coverage %	98%		
Inhibitor	Yes		

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Established 1998

Diameter Run Sheet
1st Pass Armor

Cable Type	9/32" 500°	Cable Number	932500-R125
Cable Diameter	.209"	Date	1/6/2012
Cable Length	30,050 ft.	Operator	-

0	.209"	x	.209"	16000	.209"	x	.209"
500	.209"	x	.209"	16500	.209"	x	.209"
1000	.209"	x	.209"	17000	.209"	x	.209"
1500	.209"	x	.209"	17500	.209"	x	.209"
2000	.209"	x	.209"	18000	.209"	x	.209"
2500	.209"	x	.209"	18500	.209"	x	.209"
3000	.209"	x	.209"	19000	.209"	x	.209"
3500	.209"	x	.209"	19500	.209"	x	.209"
4000	.209"	x	.209"	20000	.209"	x	.209"
4500	.209"	x	.209"	20500	.209"	x	.209"
5000	.209"	x	.209"	21000	.209"	x	.209"
5500	.209"	x	.209"	21500	.209"	x	.209"
6000	.209"	x	.209"	22000	.209"	x	.209"
6500	.209"	x	.209"	22500	.209"	x	.209"
7000	.209"	x	.209"	23000	.209"	x	.209"
7500	.209"	x	.209"	23500	.209"	x	.209"
8000	.209"	x	.209"	24000	.209"	x	.209"
8500	.209"	x	.209"	24500	.209"	x	.209"
9000	.209"	x	.209"	25000	.209"	x	.209"
9500	.209"	x	.209"	25500	.209"	x	.209"
10000	.209"	x	.209"	26000	.209"	x	.209"
10500	.209"	x	.209"	26500	.209"	x	.209"
11000	.209"	x	.209"	27000	.209"	x	.209"
11500	.209"	x	.209"	27500	.209"	x	.209"
12000	.209"	x	.209"	28000	.209"	x	.209"
12500	.209"	x	.209"	28500	.209"	x	.209"
13000	.209"	x	.209"	29000	.209"	x	.209"
13500	.209"	x	.209"	29500	.209"	x	.209"
14000	.209"	x	.209"	30000	.209"	x	.209"
14500	.209"	x	.209"	30500	.209"	x	.209"
15000	.209"	x	.209"	31000		x	
15500	.209"	x	.209"	31500		x	

Total Length 30,050 ft.

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Armor Machine Set-up
2nd Pass Armor

Cable Info.

Cable Type	9/32" 500°	Cable Number	932500-R125
Cable Diameter	.288"	Date	1/9/2012
Cable Length	30,000 ft.	Operator	-

Core Type	1st Pass, Armored
Core Diameter	.209"
Lay Length	2.2"
Lay Direction	Left
Gathering Die Diameter	.286"
Number Of Lays	3
Wire Diameter	.040"
Preform %	77%
Coverage %	98.3%
Inhibitor	Yes

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Diameter Run Sheet
2nd Pass Armor

Cable Type	9/32" 500°	Cable Number	932500-R125
Cable Diameter	.288"	Date	1/9/2012
Cable Length	30,000 ft.	Operator	-

0	.288"	x	.288"	16000	.288"	x	.288"
500	.288"	x	.288"	16500	.288"	x	.288"
1000	.288"	x	.288"	17000	.288"	x	.288"
1500	.288"	x	.288"	17500	.288"	x	.288"
2000	.288"	x	.288"	18000	.288"	x	.288"
2500	.288"	x	.288"	18500	.288"	x	.288"
3000	.288"	x	.288"	19000	.288"	x	.288"
3500	.288"	x	.288"	19500	.288"	x	.288"
4000	.288"	x	.288"	20000	.288"	x	.288"
4500	.288"	x	.288"	20500	.288"	x	.288"
5000	.288"	x	.288"	21000	.288"	x	.288"
5500	.288"	x	.288"	21500	.288"	x	.288"
6000	.288"	x	.288"	22000	.288"	x	.288"
6500	.288"	x	.288"	22500	.288"	x	.288"
7000	.288"	x	.288"	23000	.288"	x	.288"
7500	.288"	x	.288"	23500	.288"	x	.288"
8000	.288"	x	.288"	24000	.288"	x	.288"
8500	.288"	x	.288"	24500	.288"	x	.288"
9000	.288"	x	.288"	25000	.288"	x	.288"
9500	.288"	x	.288"	25500	.288"	x	.288"
10000	.288"	x	.288"	26000	.288"	x	.288"
10500	.288"	x	.288"	26500	.288"	x	.288"
11000	.288"	x	.288"	27000	.288"	x	.288"
11500	.288"	x	.288"	27500	.288"	x	.288"
12000	.288"	x	.288"	28000	.288"	x	.288"
12500	.288"	x	.288"	28500	.288"	x	.288"
13000	.288"	x	.288"	29000	.288"	x	.288"
13500	.288"	x	.288"	29500	.288"	x	.288"
14000	.288"	x	.288"	30000	.288"	x	.288"
14500	.288"	x	.288"	30500	.288"	x	.288"
15000	.288"	x	.288"	31000		x	
15500	.288"	x	.288"	31500		x	

Total Length 30,000 ft.

SYNERGY WIRE & CABLE

Established 1998

FINAL INSPECTION REPORT

9/32"

CABLE Mfg : _____ LENGTH : 30,000 ft. CABLE TYPE : 9/32" 500°

Cable No. 932500-R125

TEMPERATURE : 500° Test Site _____ DATE INSP. : 1/10/2012

Corr. Factor : _____

Test No. 1 2500 Volt	Test No. 2 Megger		Test No. 3 Ohms		Test No. 4 Capacitance	
DC @ 1 Millie Amp	Total	/ K Ft.	Total	/ K Ft.	Total	Pf / Ft.
ok	>11,250	MΩ/KFT	116.4	3.88	1414	47.14
Max Specfication		1500(min)				

		VALUE	SPEC.	+ / -
INNER ARMOR WIRE DIAM. AVG.	IN.	.040"	.040"	- .0003" + .0005"
OUTER ARMOR WIRE DIAM. AVG.	IN.	.040"	.040"	- .0003" + .0005"
CORE DIAMETER	IN.	.139"	.138"	- .002" + .003"
INNER ARMOR DIAMETER	IN.	.209"	.208"	- .002" + .003"
FINISHED CABLE DIAMETER	IN.	.288"	.288"	- .004" + .004"
INNER ARMOR LAY DISTANCE	IN.	1.3"	1.3"	0.1"
OUTER ARMOR LAY DISTANCE	IN.	2.2"	2.2"	0.1"
INNER ARMOR PREFORM	%	80	80%	5%
OUTER ARMOR PREFORM	%	77	80%	5%
INNER ARMOR COVERAGE	%	98	96.7% TO 98.7%	
OUTER ARMOR COVERAGE	%	98.3	96.7% TO 98.7%	
BREAKING STRENGTH	LBS.	9,200	9,200 LBS.	

QUALITY CONTROL _____ DATE _____

SYNERGY WIRE & CABLE

Established 1998

PRE-SHIP ELECTRICAL INSPECTION REPORT

CABLE #	FOOTAGE	TESTED
932500-R125	30,000 ft	Passed

The above Cable was charged and tested.
It has successfully held a charge and is ready to be shipped out.

Tested by: _____

Date of Test: _____

Thank you for choosing a Superior Product from

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SYNERGY WIRE & CABLE
12963 Oak Grove Road South
Burleson, TX 76028
Phone: 817.546.4178
Fax: 817.295.4453
www.synergywirelineequipment.com