

# **MACLEAN SENIOR INDUSTRIES**

MacLean - Senior - Joslyn - Reliable - Dixie - Foresight - Bethea - Continental

To: Distributors and Customers of MacLean Senior Industries

From: Brendan Conley

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Date: May 30, 2017

Topic: Strandvise® and Strandlink® Connectors for 1/4" / 6.6M strand

The Strandvise and Strandlink connectors are the "original automatic connector" offered to the Communications market since the 1940's. These connectors are "Made in the USA", and have been a critical item for everyday line construction, and a preferred product for emergency storm restoration.

In the last few months we have observed an increased occurrence of application issues with 1/4'' / 6.6M strand. In virtually every case we have determined that the <u>incorrect connector is being chosen</u>.

 The problem is selecting the wrong connector for EHS (extra high strength) strand.



The occurrence rate of field issues is an extremely small % of the number of units installed annually, fractions of a percentage point. The concern is that the Strandvise product serves a critical application role in pole guying and overhead construction. A failed Strandvise results in a line drop or improper pole guying.

There are two series of connectors available ---- All Grades series and Universal series. The difference between these series lies with the ability of the connector to handle EHS (extra high strength) strand:

- All Grades series = the original product from the 1940's and is designed primarily for high strength utility grade strand.
- Universal series = designed over 20 years ago and is intended primarily to handle EHS (extra high strength) strand.

What is different about the Universal series that allows it to hold EHS strand?

• The Universal series is physically longer in length and larger in diameter than the All Grades equivalent. The larger size reflects the use of four jaws (as opposed to three jaws on the All Grades) and a longer jaw length. This design increases the surface area contact between the jaws of the Universal Strandvise and the EHS strand.

How does this alert change my Strandvise work practice?

- If your construction practices use <u>only</u> high strength utility grade strand, you can use either the All Grades or the Universal product, at your discretion.
- If you use EHS strand, the only product that is approved by MSI is the Universal series product. The recommendation from MSI is to <u>standardize</u> your purchasing and work practices to the Universal series.



What about product already installed using an All Grades connector and EHS strand?

- Internal testing has shown that the All Grades (not intended for EHS strand) product can hold most EHS strand, but not 100% of the time. Strand at the low end of the ASTM diameter range, inconsistent lay of the strands, rough cuts (on splice applications), and bent strand (decreasing surface area contact) are variables that can impact the ability for a successful hold.
- Most field issues present themselves immediately upon installation, or soon after installation.

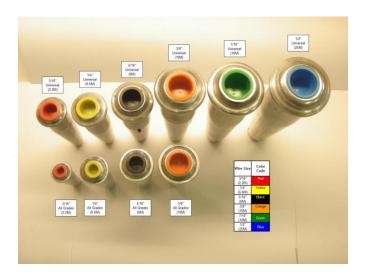
## Background of the Strandvise Product Line

The Strandvise product is the "original" automatic connector, and the only product "Made in the USA". Every product is stamped with a date code for traceability. Accept no substitute!



MacLean factory in Trenton, TN

MSI products are color coded for easy identification, and follow the existing color code system used by formed wire deadends.





#### STRANDLINK\* CONNECTOR

- Used for splicing applications with overhead or down guy wire
- Rated to hold a minimum of 90% of RBS of the strand used
- "Universal Grades" are recommended for use with Alumoweld, EHS, aluminized and galvanized steel strand
- "All Grades" are recommended for use on common grade, Siemens-Martin, high strength utility grade, galvanized and aluminized steel strand
- U.S. made versions available



#### **Universal Grade**

Part Number	Primary Strand Application	Range	Connector Length	Connector Diameter	Carton Oty	Carton Weight	
5039	3/16"	.145215"	7.5"	1.03"	50	21 Lbs.	
5040	1/4"	.215270"	7.62"	1.13"	50	27 Lbs.	
5041	5/16"	.270315"	9.28"	1.26"	50	41 Lbs.	
5042	3/8"	.325392"	10.62"	1.45"	25	30 Lbs.	
5043	7/16"	.392455"	10.59"	1.59"	25	36 Lbs.	
5044	1/2"	.455520"	10.75"	1.70"	25	43 Lbs.	

#### **All Grade**

Part Number	Primary Strand Application	Range	Connector Length	Connector Diameter	Carton	Carton Weight
4999	3/16"	.185193"	5.10"	0.70"	50	8 Lbs.
5000	1/4"	.240253"	6.40"	0.90"	100	29 Lbs.
5001	5/16"	.310335"	7.25"	1.04"	50	24 Lbs.
5002	3/8"	.360405"	8.00"	1.25"	50	35 Lbs.

#### Reducers

5261

Part Number	Primary Strand Application	Range Large End	Range Small End	Carton	Carton Weight
5086	1/4" x 3/16"	.215270"	.145215"	25	15 Lbs.
5087	5/16" x 1/4"	.270315"	.215270"	25	20 Lbs.
5022	3/8" x 5/16"	.360450"	.310335"	50	36 Lbs.
5023	7/16" x 3/8"	.410455"	.360405"	25	35 Lbs.

#### STRANDVISE\* CONNECTOR

- Used for deadend applications with overhead or down guy wire
- Rated to hold a minimum of 90% of RBS of the strand used
- · Color indicator for easy identification
- "Universal Grades" are recommended for use with Alumoweld, EHS, aluminized and galvanized steel strand

22.31"

- "All Grades" are recommended for use on common grade, Siemens-Martin, high strength utility grade, galvanized and aluminized steel strand
- U.S. made versions available

E



3/16" Uni	versal Gra	de Strand -	Red W	Wire range: .145215"		
Part Number	Overall Length	Cartridge Length	Bail Width	Bail Type	Carton	Carton Weight
5199	10.12"	4.66"	1.63"	A	50	19 Lbs.
5255	12.75"	4.66"	2.75"	E	25	15 Lbs.

2.75"

	1/4"	Universal	Grade	Strand -	Yellow	Wire range: .215270"
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4.66"

Part Number	Overall Length	Cartridge Length	Bail Width	Bail Type	Carton Oty	Carton Weight
5200	10.38"	4.88"	1.63"	A	50	27 Lbs.
5250	13.87"	4.88"	2.25"	В	50	37 Lbs.
5200L	13.87"	4.88"	1.63"	C	50	37 Lbs.
5262	22.62"	4.88"	2.75"	E	25	20 Lbs.
5268	28.63"	4.88"	2.75"	E	25	22 Lbs.



20 Lbs.

#### 5/16" Universal Grade Strand - Black Wire range: .270 - .315"

Part Number	Overall Length	Cartridge Length	Bail Width	Bail Type	Carton	Carton Weight
5201	10.69"	5.38"	1.63"	A	50	42 Lbs.
5251	14.00"	5.38"	2.25"	В	50	48 Lbs.
5201L	15.75"	5.38"	1.63"	C	50	50 Lbs.
5257	14.06"	5.38"	2.75"	E	20	21 Lbs.
5263	23.44"	5.38"	2.75"	E	25	32 Lbs.
5269	29.69"	5.38"	2.75"	E	20	27 Lbs.

#### 3/8" Universal Grade Strand - Orange Wire range: .325 - .392"

Part Number	Overall Length	Cartridge Length	Bail Width	Bail Type	Carton Oty	Carton Weight
5202	12.88"	6.47"	1.63"	Α	25	33 Lbs.
5252	15.12"	6.47"	2.25"	В	25	35 Lbs.
5202L	18.00"	6.47"	2.00"	C	25	38 Lbs.
5264	25.00"	6.47"	2.75"	E	20	37 Lbs.
5270	31.00"	6.47"	2.75"	F	20	42 l hs

#### 7/16" Universal Grade Strand - Green Wire range: .392 - .455"

Part Number	Overall Length	Cartridge Length	Bail Width	Bail Type	Carton	Carton Weight
5203	14.75"	6.72"	2.06"	A	25	43 Lbs.
5253-6	17.25"	6.72"	2.75"	D	25	46 Lbs.
5203L	21.00"	6.72"	2.00"	C	25	54 Lbs.

### 1/2" Universal Grade Strand - Blue Wire range: .455 - .520"

Part Number	Overall Length	Cartridge Length	Bail Width	Bail Type	Carton Oty	Carton Weight
5204	16.31"	7.09"	2.06"	A	20	48 Lbs.
5254	17.50"	7.09"	2.25"	В	20	48 Lbs.
5254-6	17.38"	7.09"	2.75"	D	20	49 Lbs.
5204L	20.50"	7.09"	2.00"	C	20	54 Lbs.

# 3/16" All Grade Strand - Red Wire range: .185 - .193"

Part	Overall	Cartridge	Bail	Bail	Carton	Carton
Number	Length	Length	Width	Type	Qty	Weight
5099	8.06"	2.97"	1.63"	A	50	11 Lbs.

# 1/4" All Grade Strand - Yellow Wire range: .240 - .253"

Part Number	Overall Length	Cartridge Length	Bail Width	Bail Type	Carton Oty	Carton Weight
5100	9.56"	3.94"	1.63"	A	50	20 Lbs.
5150	12.82"	3.94"	2.25"	В	50	23 Lbs.
5100L	13.10"	3.94"	1.63"	C	25	12 Lbs.

## 5/16" All Grade Strand - Black Wire range: .310 - .335"

Part Number	Overall Length	Cartridge Length	Bail Width	Bail Type	Carton	Carton Weight
5101	9.88"	4.37"	1.63"	Α	50	27 Lbs.
5151	13 10"	4.37"	2 25"	B	50	32 l hs

## 3/8" All Grade Strand - Orange Wire range: .360 - .405"

Part Number	Overall Length	Cartridge Length	Bail Width	Bail Type	Carton	Carton Weight
5102	11.88"	5.00"	1.63"	A	50	41 Lbs.
5152	13.82"	5.00"	2.25"	В	50	45 Lbs.
5152-6	13.50"	5.00"	2.75"	D	25	26 l bs

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