



245 Suffolk Lane - Gardner, MA 01440
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INDEPENDENT COMPARISON TEST

PROPERTY OF ADVANCED CABLE TIES

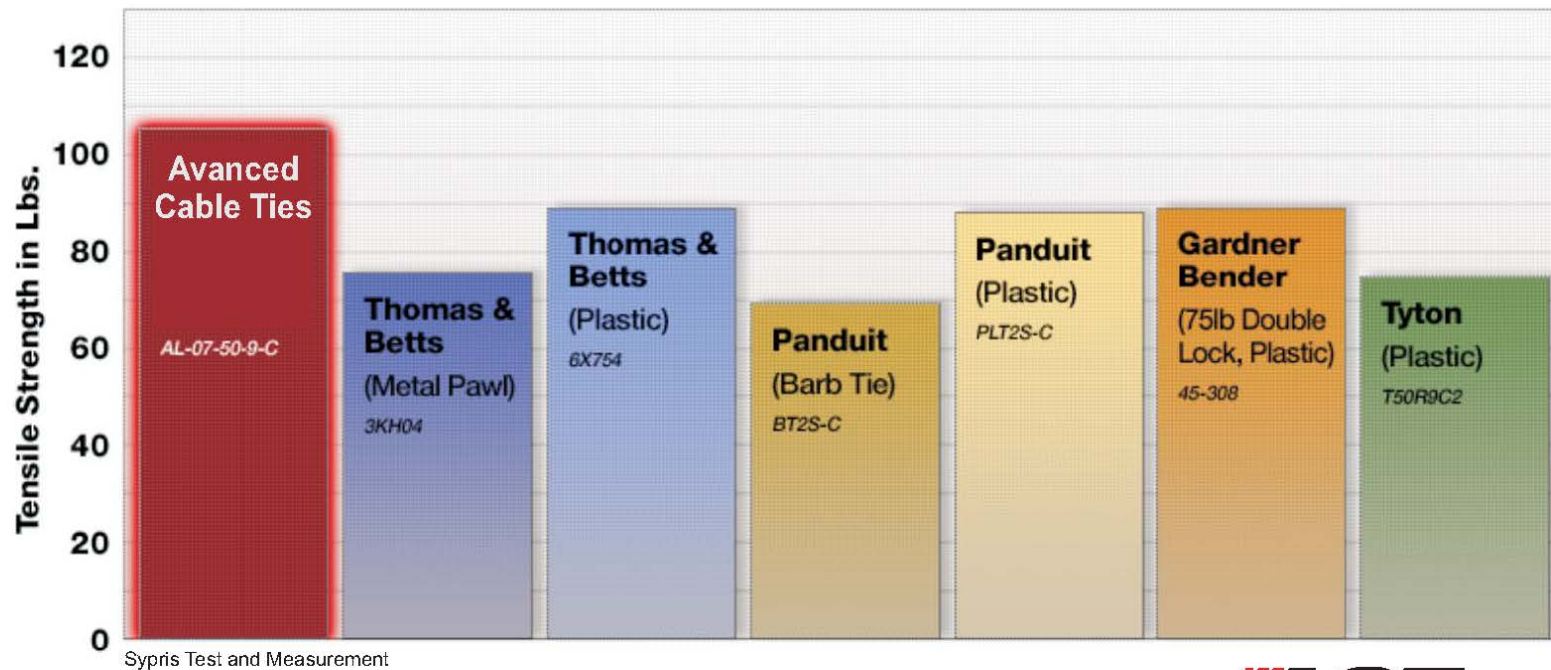
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CABLE TIES***

INDEPENDENT TEST RESULTS



Independent Test Results

Advanced Cable Ties vs. the Competition



ACT
ADVANCED CABLE TIES, INC.
245 Suffolk Lane, Gardner, MA 01440
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Report No. 543529-002
November 1, 2005
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Mr. Greg Letendre
Advanced Cable Ties, Inc.
245 Suffolk Lane
Gardner, MA. 01440

Reference: Advanced Cable Ties, Inc. Purchase Order No. 008546-00
Sypris Test & Measurement Job No. 543529

Subject: Independent Comparison Test, Cable Tie Tensile Strength Test for Advanced Cable Ties, Inc.

Dear Mr. Letendre:

This is to certify that Sypris Test & Measurement performed a tensile test on the cable ties identified below in accordance with Advanced Cable Ties, Inc. Purchase Order No. 008546-00 and UL 1565. The test was completed on October 25, 2005.

The cable ties were purchased by Sypris Test & Measurement from various sources. Twenty-Five (25) specimens of each type were subjected to a tensile strength test.

THE FOLLOWING SAMPLES WERE TESTED.

MANUFACTURER	PART #	DESCRIPTION
Advanced Cable Ties	AL-07-50-9-C	One piece plastic cable tie, 50lb
Thomas & Betts	3KH04	Two piece cable tie "Metal Pawl", 50lb
Thomas & Betts	6X754	One piece plastic cable tie, 50lb
Panduit	BT2S-C	Two piece cable tie "Barb Tie", 50lb
Panduit	PLT2S-C	One piece plastic cable tie, 50lb
Gardner Bender	45-308	One piece plastic cable tie, 75lb "Double Lock"
Tyton	T5OR9C2	One piece plastic cable tie, 50lb

Each specimen was individually attached and positioned on the tensile strength test fixture, as shown in figure 1. The fixture was positioned in the tensile test machine, and sufficient force was applied to break the component, releasing the locking device, or separate the component cable tie from the component. The heads of the tensile test machine were operated at a speed of 1 inch per minute. The breaking force was noted and recorded.

ISO 9001:2000

SYPRIS TEST & MEASUREMENT INC.

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TEST RESULTS

The tensile strength (pounds) for each cable tie was above the specified minimum tensile strength. The tensile strength for each cable tie and the average strength for each type may be seen on the attached data sheets.

Submitted by:

Donald R. Zoon (S.O.F)

Donald R. Zoon
Test Engineer

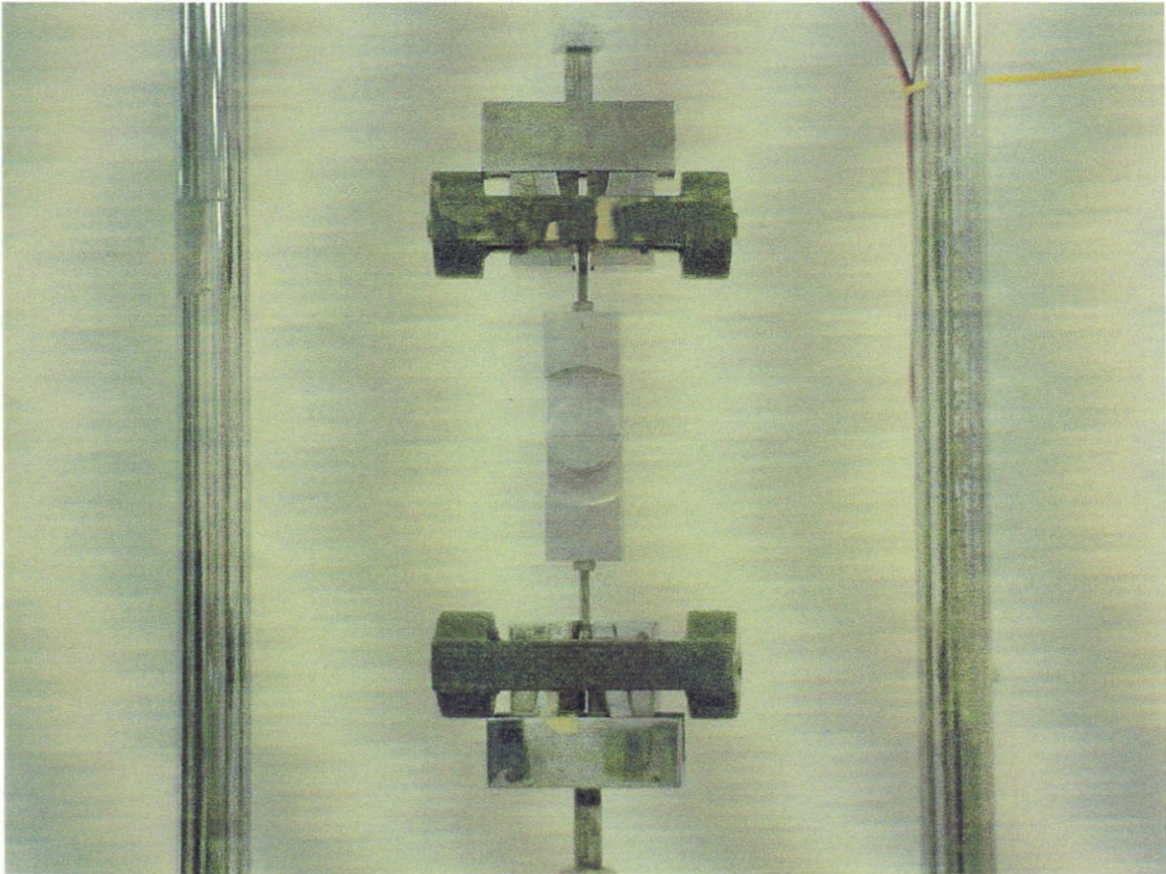


Figure 1
Typical Photograph of Tensile Strength Test Setup

TENSILE STRENGTH TEST DATA

Manufacturer: ACT _____

Part Number AL-07-50-9-C _____

MIL Standard# MS3367-1-9 _____

Minimum Test Strength (lbs.) 50 _____

Sample No.	Strength (lbs)	Sample No.	Strength (lbs)	Sample No.	Strength (lbs)
1	94	11	102	21	79
2	98	12	123	22	113
3	88	13	116	23	108
4	86	14	119	24	113
5	98	15	107	25	99
6	95	16	127		
7	94	17	116		
8	115	18	92		
9	111	19	111		
10	128	20	95		

Average = 105

Manufacturer: Thomas & Betts

Part Number 3KHO4 _____

MIL Standard# MS3367-1-9 _____

Minimum Test Strength (lbs.) 50 _____

Sample No.	Strength (lbs)	Sample No.	Strength (lbs)	Sample No.	Strength (lbs)
1	78	11	73	21	76
2	78	12	76	22	79
3	78	13	77	23	78
4	74	14	81	24	78
5	75	15	75	25	73
6	79	16	78		
7	75	17	77		
8	76	18	79		
9	76	19	76		
10	77	20	77		

Average = 77

TENSILE STRENGTH TEST DATA (Continued)

Manufacturer: Thomas & Betts

Part Number 6X754

MIL Standard# MS3367-1-9

Minimum Test Strength (lbs.) 50

Sample No.	Strength (lbs)	Sample No.	Strength (lbs)	Sample No.	Strength (lbs)
1	92	11	86	21	94
2	94	12	90	22	93
3	95	13	88	23	92
4	79	14	96	24	90
5	95	15	86	25	89
6	88	16	80		
7	91	17	88		
8	82	18	90		
9	82	19	85		
10	97	20	86		

Average = 89

Manufacturer: Panduit

Part Number BT2S-C

MIL Standard# MS3367-1-9

Minimum Test Strength (lbs.) 50

Sample No.	Strength (lbs)	Sample No.	Strength (lbs)	Sample No.	Strength (lbs)
1	66	11	76	21	68
2	68	12	67	22	68
3	70	13	70	23	69
4	69	14	67	24	69
5	70	15	70	25	67
6	73	16	70		
7	65	17	73		
8	70	18	69		
9	71	19	69		
10	70	20	69		

Average = 69

TENSILE STRENGTH TEST DATA (Continued)Manufacturer: PanduitPart Number PLT2S-CMIL Standard# MS3367-1-9Minimum Test Strength (lbs.) 50

Sample No.	Strength (lbs)	Sample No.	Strength (lbs)	Sample No.	Strength (lbs)
1	88	11	90	21	86
2	88	12	93	22	84
3	85	13	83	23	91
4	91	14	94	24	89
5	88	15	91	25	90
6	85	16	91		
7	85	17	87		
8	84	18	81		
9	86	19	89		
10	83	20	84		

Average = 87

Manufacturer: TytonPart Number T5OR9C2MIL Standard# MS3367-1-9Minimum Test Strength (lbs.) 50

Sample No.	Strength (lbs)	Sample No.	Strength (lbs)	Sample No.	Strength (lbs)
1	76	11	75	21	81
2	77	12	75	22	73
3	74	13	72	23	76
4	76	14	74	24	77
5	75	15	76	25	73
6	75	16	77		
7	75	17	76		
8	77	18	75		
9	78	19	73		
10	74	20	74		

Average = 75

TENSILE STRENGTH TEST DATA (Continued)Manufacturer: Gardner BenderPart Number 45-308MIL Standard# MS3367-1-9Minimum Test Strength (lbs.) 75

<u>Sample No.</u>	<u>Strength (lbs)</u>	<u>Sample No.</u>	<u>Strength (lbs)</u>	<u>Sample No.</u>	<u>Strength (lbs)</u>
1	93	11	93	21	88
2	96	12	89	22	93
3	94	13	93	23	97
4	79	14	97	24	83
5	86	15	77	25	84
6	87	16	88		
7	96	17	86		
8	95	18	89		
9	86	19	85		
10	91	20	87		

Average = 89