

WEAVER CONSTRUCTION MANAGEMENT, INC. 3679 S. Huron St., Suite 404 Englewood, CO 80110 Phone: (303) 789-4111 FAX: (303) 789-4310

#### SUBMITTAL TRANSMITAL

November 30, 2011

		WCM Submittal No: 16075-001
PROJECT:	Harold Thompson Region Birdsall Rd. Fountain, CO 80817 Job No. 2908	al WRF
ENGINEER:	GMS, Inc. 611 No. Weber St., #300 Colorado Springs, CO 809 719-475-2935 Roger Sams	
OWNER:	Lower Fountain Metropoli Sewage Disposal District 901 S. Santa Fe Ave. Fountain, CO 80817 719-382-5303 James Heck	
CONTRACTOR:	McDade Woodcock, Inc. 7222 Commerce Center Dr Colorado Springs, CO 809 719-264-1236	
SUBJECT: Electric	al Identification Submit	al
SPEC SECTION: 1	6075	
PREVIOUS SUBMI	SSION DATES:	
CONTRACTOR'S STAMP with respect to the means	, methods, techniques, & safety	_ NO wed by Weaver Construction Management and approved precautions & programs incidental thereto. Weaver General th contracted documents and comprises on deviations
Contractor's Stamp	:	Engineer's Stamp:
Date: 11/30/11 Reviewed by: H.C. (X) Reviewed Witl () Reviewed With	hout Comments	
ENGINEER'S COMMENTS:	 	

### McDade-Woodcock, Inc.

7222 Commerce Center Dr. Suite 245

**TRANSMITTAL** No. 00008

Phone: 719-264-1236 Colorado Springs, CO 80919 Fax: 719-264-1450

PROJECT: Harold D. Thompson WRF

**DATE:** 11/22/2011

TO:

Weaver General Construction

**Electrical Submittal** REF:

16075-001

**Electrical Identification** 

ATTN:

Wes Weaver

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
Shop Drawings	☑ Approvai	Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	Returned After Loan
☐ Change Order	Review and Comment	Resubmit
Plans		☑ Submit
☐ Samples	SENT VIA:	Returned
☐ Specifications	✓ Attached	☐ Returned for Corrections
Other:	☐ Separate Cover Via	☑ Due Date: 12/16/2011

ITEM PACKAGE SUBMITTAL DRAWING REV. ITEM NO. COPIES DATE DESCRIPTION STATUS

> 001 1 11/22/2011 Electrical Submittal

OUT

16075-001

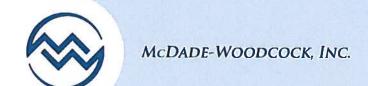
Electrical Identification

Remarks: Electrical Submittal for Review and Approval

Via Email Only

Janelle L Smith

CC:



# HAROLD D. THOMPSON RWRF HEADWORKS BUILDING

McDADE-WOODCOCK INC. PROJECT NUMBER - 1402

### **ELECTRICAL SUBMITTAL**

### **ELECTRICAL IDENTIFICATION**

16075-001

#### CORPORATE

2404 Claremont Ave. NE Albuquerque, NM 87107 Mailing Address P.O. Box 11592 Albuquerque, NM 87192 Ph 505-884-0155 Fax 505-884-6073

#### DENVER

10700 E. Geddes Avenue Suite 170 Englewood C0 80112 Ph 303-803-1809 Fax 303-803-1818

#### COLORADO SPRINGS

7222 Commerce Center Drive Suite 245 Colorado Springs, CO 80919

Malling Address P.O. Box 7349 Colorado Springs, CO 80933

Ph 719-264-1236 Fax 719-264-1450 Owner: Lower Fountain Metropolitan

Sewage District

901 S. Santa Fe Avenue Fountain, CO 80817

**General Contractor:** Weaver General Construction Co.

3679 S. Huron St. - Suite 404

Englewood, CO 80110

**<u>Electrical Contractor</u>**: McDade-Woodcock, Inc.

7222 Commerce Center Dr.

#245

Colorado Springs, CO 80919

**Engineer:** GMS Inc.

611 N. Weber St., Suite 300 Colorado Springs, CO 80903

# HAROLD D. THOMPSON RWRF HEADWORKS BUILDING

McDADE-WOODCOCK INC.
PROJECT NUMBER - 1402

**ELECTRICAL SUBMITTAL** 

**ELECTRICAL IDENTIFICATION** 

16075-001

### **TABLE OF CONTENTS**

**TAB 1: Conductor Labels** 

TAB 2: Electrical Vinyl Tapes
TAB 3: Phenolic Identification

**TAB 4: Underground Electrical Warning** 

**Tape** 

#### **CORPORATE**

2404 Claremont Ave. NE Albuquerque, NM 87107

Mailing Address P.O. Box 11592 Albuquerque, N M 87192

Ph 505-884-0155 Fax 505-884-6073

#### DENVER

10700 E. Geddes Avenue Suite 170 Englewood CO 80112

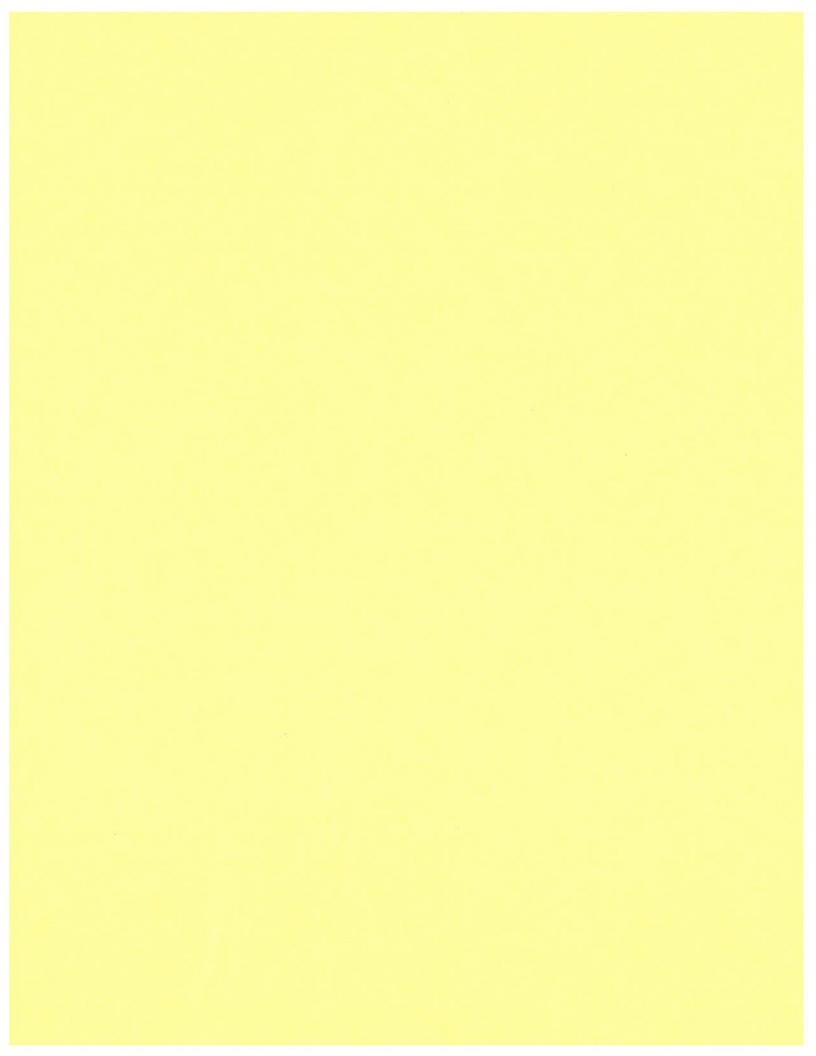
Ph 303-803-1809 Fax 303-803-1818

#### COLORADO SPRINGS

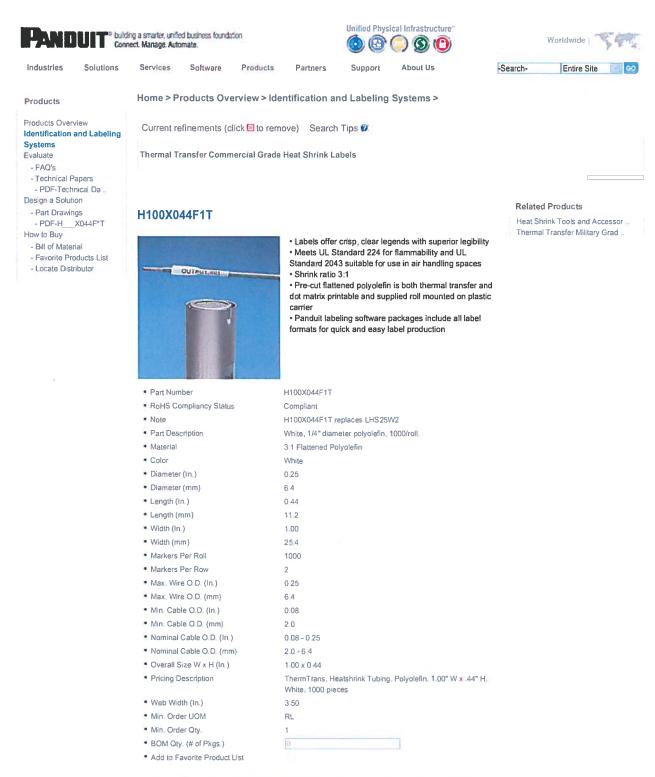
7222 Commerce Center Drive Suite 245 Colorado Springs, CO 80919

Mailing Address P.O. Box 7349 Colorado Springs, CO 80933

Ph 719-264-1236 Fax 719-264-1450



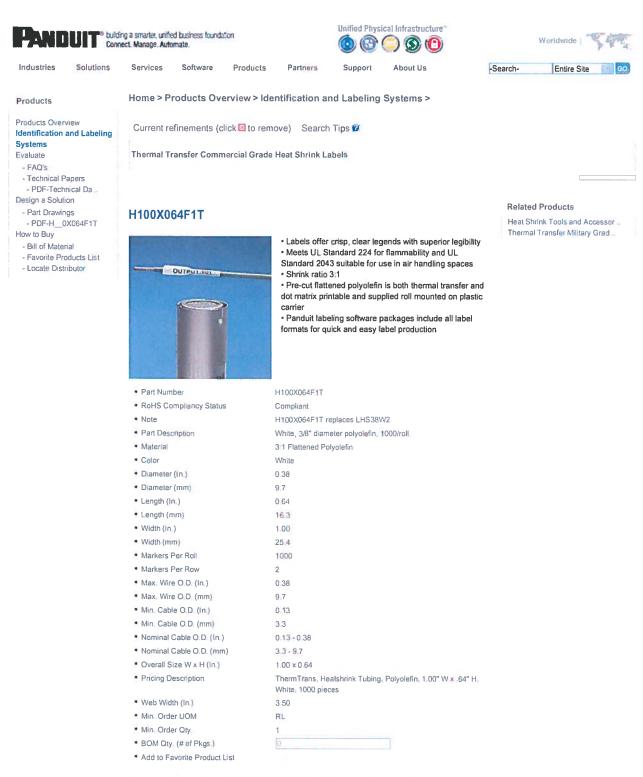
Product Search Page 1 of 1



Please register to utilize the 'Bill of Materials', 'Submit Quotes' and 'Favorite Product List' features.

Home | Industries | Solutions | Services | Products | Partners | Support | Contact Us | Site Map | Careers Copyright © 1995-2011, PANDUIT CORP. All rights reserved | Legal Information | Privacy Policy

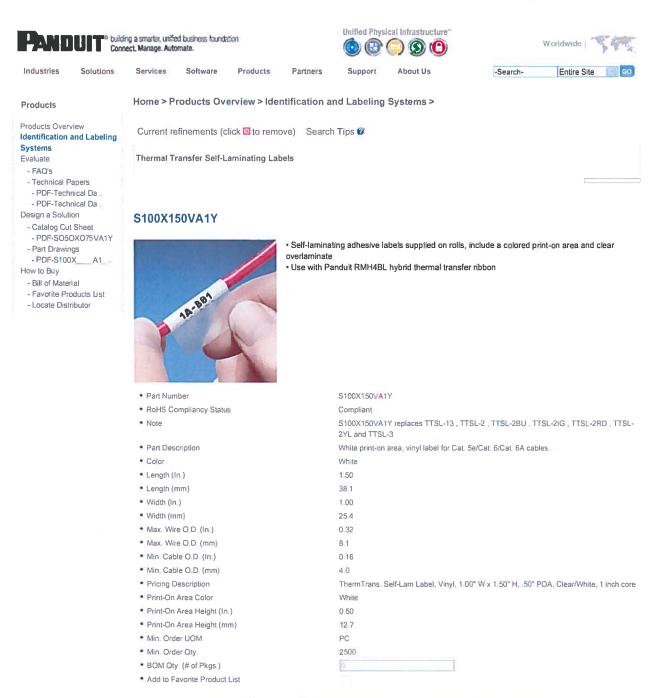
Product Search Page 1 of 1



Please register to utilize the 'Bill of Materials', 'Submit Quotes' and 'Favorite Product List' features.

Home | Industries | Solutions | Services | Products | Partners | Support | Contact Us | Site Map | Careers Copyright © 1995-2011, PANDUIT CORP. All rights reserved | Legal Information | Privacy Policy

Product Search Page 1 of 1



Please register to utilize the 'Bill of Materials', 'Submit Quotes' and 'Favorite Product List' features.

Home | Industries | Solutions | Services | Products | Partners | Support | Contact Us | Site Map | Careers Copyright @ 1995-2011, PANDUIT CORP. All rights reserved. | Legal Information | Privacy Policy

#### **Thermal Transfer Self-Laminating Labels**

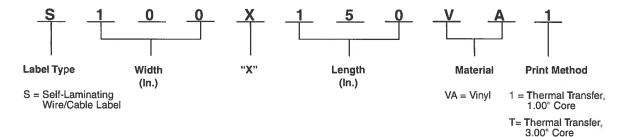
- · Self-laminating adhesive labels supplied on rolls, include a colored print-on area and clear overlaminate
- Use with Panduit RMH4BL hybrid thermal transfer ribbon



#### Material/Print Method Selection Guide

Material	Print Method	Temperature Range	Features
Self-Laminating Vinyl, White Print-On (VA)	Thermal Transfer (T)	-40°F to 200°F (-40°C to 93°C)	Indoor/outdoor rated; thin and conformable; preferred material for most general wire/cable labeling.

#### Part Number System for Self-Laminating Labels



Part Number		Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Wire O.D.		Std. Pkg.	Std. Ctn.
	Part Description	ln.	mm	In.	mm	ln.	mm	In.	mm	in.	mm	Qty.	Qty.
S050X075VA1Y	White print-on area, vinyl label for 18 – 14 AWG wires.	0.50	12.7	0.75	19.1	0.25	6.4	0.08	2.03	0.16	4.0	5000	20000
S050X075VATY*	White print-on area, vinyl label for 18 – 14 AWG wires,	0.50	12.7	0.75	19.1	0.25	6.4	0.08	2.03	0.16	4.0	5000	40000
S050X125VA1Y	White print-on area, vinyl label for 12 – 10 AWG wires.	0.50	12.7	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	5000	20000
S050X125VATY*	White print-on area, vinyl label for 12 – 10 AWG wires.	0.50	12.7	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	5000	10000
S050X150VA1Y	White print-on area, vinyl label for Cat. 5e/Cat. 6 cables.	0.50	12.7	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	60000
S050X150VATY*	White print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	0.50	12.7	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	40000
S050X250VATY*	White print-on area, vinyl label for 6 – 2 AWG wires.	0.50	12.7	2.50	63.5	1.00	25.4	0.32	8.1	0.95	24.3	5000	20000

Order number of labels required in multiples of Std. Pkg. Qty. Use with Panduit thermal transfer hybrid or wax ribbons.

Table continues on page E2.8

A. System Overview

B1. Cable Ties

B2. Cable Accessories

B3. Stainless Steel Ties

> C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

> D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1, Labeling Systems	Street, Square, or other Persons.
E2. Labels	
E3, Pre-Printed & Write-On Markers	-

E4. Permahent Identification

E5. Lockout/ Tagout & Safety Solutions

> F. Index

<sup>\*</sup>Labels are roll mounted on 3.00" cores; when using the TDP43MY printer and 3.00" cores, the roll stand (TDP43ME-RS) is required.

A. System Overview

#### **Thermal Transfer Self-Laminating Labels (continued)**

B1. Cable Ties

B2. Cable Accessories

> B3. Stainless Steel Ties

> > C1. Wiring Duct

C2. Surface Raceway

> C3. Abrasion Protection

C4. Cable Management

> D1. Terminals

D2. Power Connectors

> D3. Grounding Connectors

E1\_ Labeling Systems E2\_ Labels

> E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/ Tagout & Safety Solutions

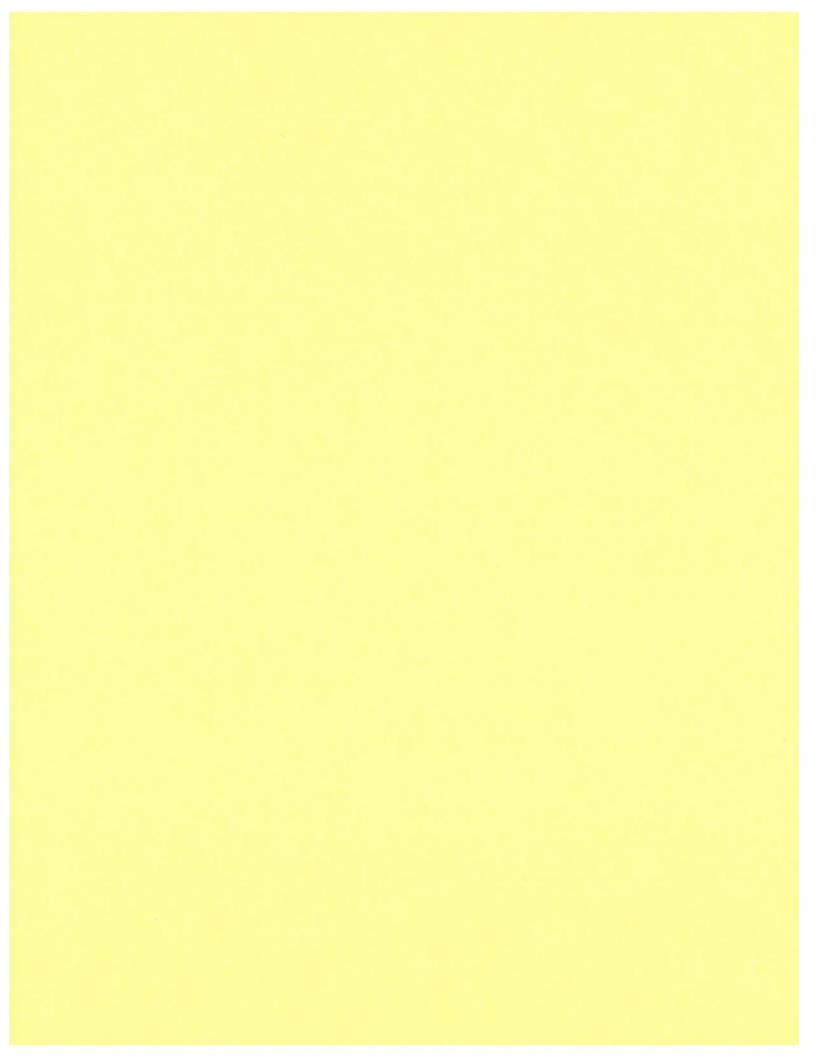
> F. Index

		Wi	dth	Lei	ngth		n Area		Cable .D.	Max. Wire O.D.		Std. Pkg.	Std. Ctn.
Part Number	Part Description	In.	mm	ln.	mm	In.	mm	ln.	mm	In.	mm	Qty.	Qty.
S075X075VATY*	White print-on area, vinyl label for 18 – 14 AWG wires.	0.75	19.1	0.75	19.1	0.25	6.4	0.08	2.03	0.16	4.04	5000	20000
S075X125VATY*	White print-on area, vinyl label for 12 – 10 AWG wires.	0.75	19.1	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	5000	20000
S075X150VATY*	White print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	0.75	19.1	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	20000
S100X075VA1Y	White print-on area, vinyl label for 18 – 14 AWG wires.	1.00	25.4	0.75	19.1	0.25	6.4	0.08	2.0	0.16	4.0	2500	10000
S100X075VATY*	White print-on area, vinyl label for 18 – 14 AWG wires.	1.00	25.4	0.75	19.1	0.25	6.4	80.0	2.1	0.16	4.0	5000	10000
S100X125VA1Y	White print-on area, vinyl label for 12 – 10 AWG wires	1.00	25.4	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	2500	10000
S100X125VATY*	White print-on area, vinyl label for 12 – 10 AWG wires.	1.00	25.4	1.25	31.8	0.38	9.7	0.12	3.1	0.28	7.0	5000	10000
S100X150VA1Y	White print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	2500	30000
S100X150VATY*	White print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150VBTY*	Blue print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150VCTY*	Brown print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150VDTY*	Green print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150VETY*	Gray print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150VFTY*	Orange print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150VGTY*	Purple print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150VHTY*	Red print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150VITY*	Yellow print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150V0TY*	Black print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X150V9TY*	Gold print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables.	1.00	25.4	1.50	38.1	0.50	12.7	0.16	4.0	0.32	8.1	5000	2000
S100X225VA1Y	White print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	1500	1800
S100X225VATY*	White print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	5000	2000
S100X225VBTY*	Blue print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	5000	2000
S100X225VCTY*	Brown print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.4	2.25	57.2	0.75	19.1	0.24	6.1	0.48	12.1	5000	2000

Order number of labels required in multiples of Std. Pkg. Qty.

Use with Panduit thermal transfer hybrid or wax ribbons.

<sup>\*</sup>Labels are roll mounted on 3.00" cores; when using the TDP43MY printer and 3.00" cores, the roll stand (TDP43M-RS) is required.





## 33 Vinyl Electrical Tape

### **Data Sheet**



#### **Product Description**

3M<sup>™</sup> 33 Electrical Tape is a quality, general-purpose vinyl insulating tape. It has excellent resistance to: abrasion, moisture, alkalies, acid, copper corrosion and varying weather conditions (including sunlight). It is a polyvinyl chloride (PVC) tape that has a high dielectric strength, is flame-retardant and conformable, and provides excellent mechanical protection with minimum bulk. It is a UL Listed "Insulating Tape".

- UL Listed; UL 510 Standard "Insulating Tape" (product category OANZ), File E129200
- Polyvinyl chloride (PVC) backing
- Pressure-sensitive rubber based adhesive
- Inhibits corrosion of electrical conductor
- Compatible with solid dielectric cable insulation

#### **Applications**

- Primary electrical insulation for all wire and cable splices rated up to 600 volts
- Protective jacketing for high voltage cable splices and repairs
- · Harnessing of wires and cables
- For indoor or outdoor applications
- For above or below grade applications

#### Typical Data/Physical Properties

Temperature Rating UL 510	80°C (176°F)
Flammability UL 510 ASTM D1000	Pass 4 sec.
Dielectric Strength* Standard Condition High Humidity	>1000 V/mil >90% of Standard
Insulation Resistance*	>10 <sup>6</sup> Megohms
Thickness*	7 mils
Elongation*	200%
Breaking Strength*	17 lbs./in.
<b>Adhesion*</b> To Steel To Backing	24 oz/in. 22 oz/in.
Flagging*	<0.1 in.
<b>Telescoping</b> 24 hr. @ 50°C (120°F)	<0.1 in.

\*Per ASTM D1000

Note: These are typical properties and should not be used for specification purposes.

#### **Installation Techniques**

The tape shall be applied in half-lapped layers with sufficient tension to conform and produce a uniform covering. In most applications, this tension will reduce the tape's width to approximately 5/8 of its original width. On pigtail splices, the tape should be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cutthrough. Always wrap the tape "uphill", taping from a smaller diameter surface to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging.

#### **Shelf Life**

3M 33 vinyl electrical tape has a 5-year shelf life (from date of manufacture) when stored under the following recommended storage conditions. Store behind present stock in a clean dry place at a temperature of 70°F (21°C) and 40-50% relative humidity. Good stock rotation is recommended.

#### **Availability**

3M 33 vinyl electrical tape is available from your local 3M authorized electrical distributor in the following standard roll sizes:

3/4" x 36 yd. 1 1/2" x 44 ft.

Other lengths and widths are available by special order.

#### Specification:

#### **Product:**

The tape is based on polyvinyl chloride (PVC) and/or its copolymers and has a rubber based, pressure-sensitive adhesive. The tape shall be 7.0 mils thick, and be UL Listed and marked per UL Standard 510 as "Flame Retardant and Weather Resistant". The tape must be applicable at temperatures ranging from 32°F (0°C) through 100°F (38°C) without loss of physical properties. The tape shall be classified for use in both indoor and outdoor environments. The tape shall be compatible with synthetic cable insulations, jackets and splicing compounds. The tape will remain stable and will not telescope more than 0.1 inches when maintained at temperatures below 120°F (50°C).

### **Engineering/Architectural Specifications**:

Primary electrical insulation (branch wiring in wet or dry locations): All splices for 600 volt wire and rated 80°C (176°F) and below shall be insulated with a minimum of two half-lapped layers of 3M 33 Vinyl Electrical Tape. All connectors having irregular surfaces shall be padded with Scotchfil™ Electrical Insulation Putty or Scotch™ 130C Rubber Splicing Tape prior to insulating with 3M™ 33 Vinyl Electrical Tape. Mechanical protection (outer jacketing): All rubber and thermoplastic insulating high voltage power cable tape splices and repairs shall be overwrapped with at least two half-lapped layers of 3M 33 Vinyl Electrical Tape.

#### important Notice

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture as of the date of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.



**Electrical Products Division** 

6801 River Place Blvd. Austin, TX 78726-9000 www.3M.com/elpd

<sup>&</sup>quot;Scotch", "Scotchfil" and "3M" are trademarks of 3M.



### Vinyl Electrical Tape 35

Data Sheet July 2011

#### Description

Scotch® Vinyl Electrical Tape 35 is a 7 mil (0,178 mm) polyvinyl chloride (PVC) color-coding tape. Outstanding electrical and mechanical properties make this tape excellent for use in phase identification, color coding of motor leads and piping systems, and for marking safety areas. Scotch® Tape 35 operates over a wide range of temperatures – up to 221°F (105°C); applies smoothly and conforms well above 32°F (0°C). This tape is available in nine fade resistant colors.

### Agency Approvals & Self Certifications

UL Listed - UL 510 Standard "Insulating Tape" (product category OANZ), File E129200; meets UL 510 labeling for "flame-retardant" for vinyl electrical tape.

CSA Certification; Standard. C22.2 No. 197-M1983 "PVC Insulating Tape," File LR 48769.

#### RoHS 2002/95/EC



RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

#### **Applications**

- Color coding for phase identification, job identification and safety
- Insulating electrical wiring
- Protecting electrical conductors, motor leads and piping from moisture, alkalis, acids, corrosion, abrasion and weather

#### Installation

- Apply in half-lapped layers with sufficient tension to conform and produce a uniform covering. In most applications, this tension will reduce the tape width to approximately 60% of its original width.
- On a pigtail splice, wrap the tape beyond the end of the wire and then fold back and over-wrap, leaving a protective cushion to resist cut-through.
- Wrap uphill, taping from a smaller diameter to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging.

#### **Specifications**

Scotch® Tape 35 is based on polyvinyl chloride (PVC) and/or its copolymers and has a rubber-based, pressure-sensitive adhesive. The tape shall be 7 mils thick, and be UL Listed and marked per UL Standard 510 as "Flame-Retardant." The tape shall be compatible with synthetic cable insulations, jackets and splicing compounds. The tape will remain stable and will not telescope more than 0.1 inches when maintained at temperatures below 122°F (50°C).



### Typical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

Physical Property (ASTM D1000, unless noted)	Typical Value US units (metric)				
Color(s)  Blue, Brown, Gray, Green, Orange Violet, White, Yellow					
Adhesive	Pressure-sensitive rubber				
Thickness	7 mils (0,178 mm)				
Continuous Operating Temperature (max)	221°F (105°C)				
Breaking Strength	17 lb/in (30,3 N/10 mm)				
Elongation (% at break)	225%				
Adhesion to Steel	20 oz/in (2,2 N/10 mm)				
Adhesion to Backing	20 oz/in (2,2 N/10 mm)				
Flagging	0.1 in (2,5 mm)				

Electrical Property (ASTM D1000, unless noted)	Typical Value US units (metric)
Voltage Rating (UL 510)	600 volts
Dielectric Breakdown Standard condition Wet Condition (96 hrs @ 73.4°F (23°C)	8,750 volts* 7875 volts *Note: Dielectric strength 1250 V/mil
High Humidity Insulation Resistance	> 1x 10 <sup>6</sup> megohms

### Shelf Life & Storage

Scotch<sup>®</sup> Vinyl Electrical Tape 35 has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

#### **Availability**

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.245.3573.

#### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

#### Warranty; Limited Remedy; Limited Liability

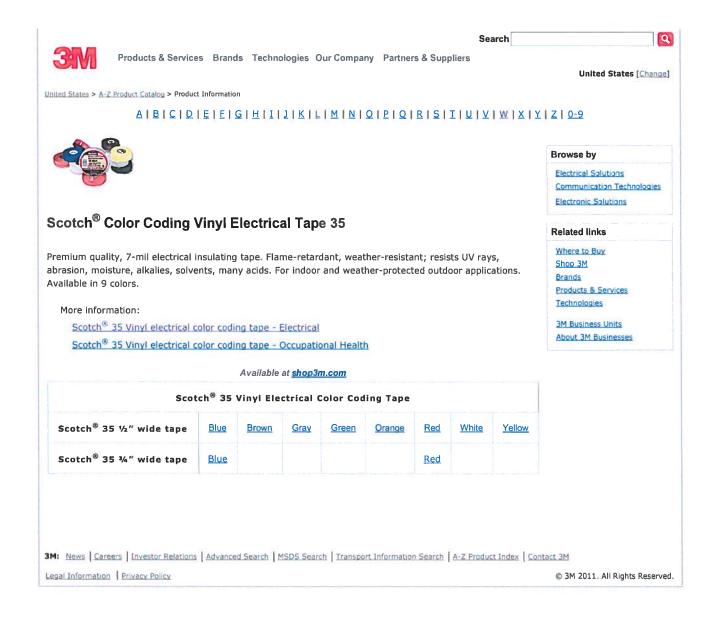
This product will be free from defects in material and manufacture at the time of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

Scotch is a registered trademark of 3M Company.

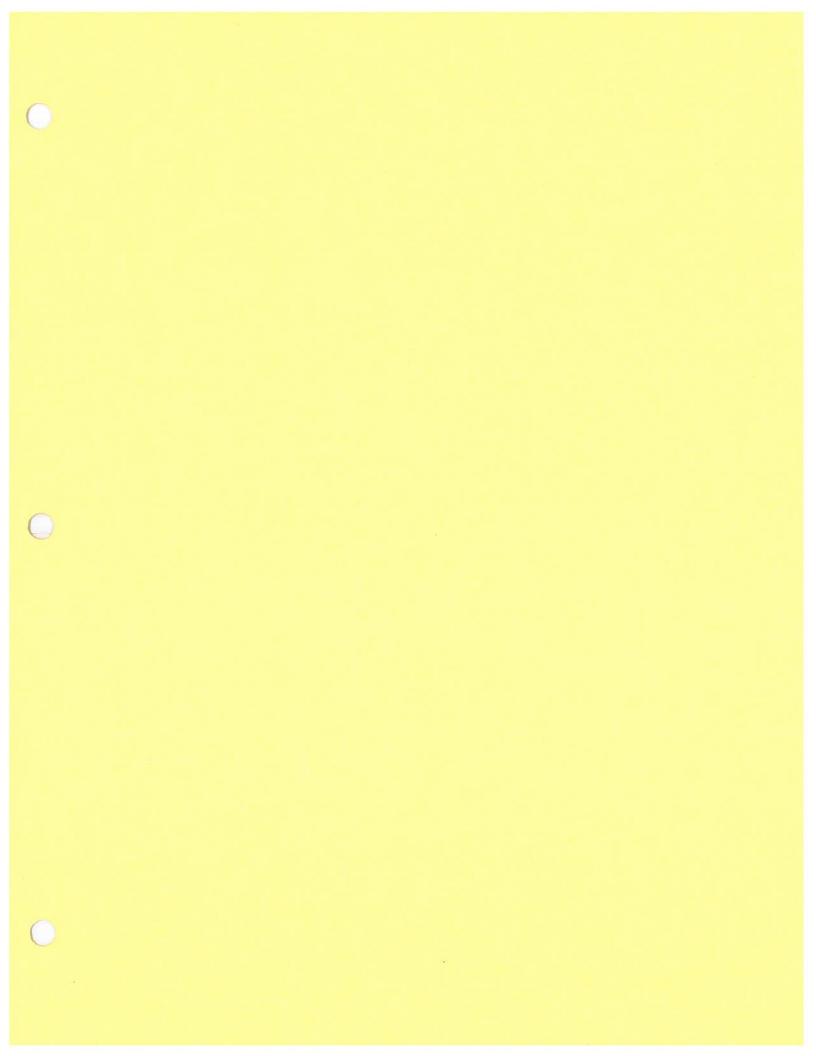


Electrical Markets Division 6801 River Place Boulevard Austin, TX 78726-9000 800-245-3573 Fax: 800.245.0329 www.3M.com/electrical

Please recycle
© 3M 2011 All rights reserved
78-8124-4858-3 E









### **Product Information Bulletin**

P.O. Box 467 | 64 Outwater Lane, Garfield, NJ 07026 Ph: 973-340-7889 | Fax: 973-340-7809

# **Engraved Phenolic Valve Tags**





#### **Product Description:**

Plastic valve tags offer a variety of colors and sizes to better identify hazards.

#### Material:

Glossy or Velvet/Low Glare finish. Rigid thermoset material with cap and core permanently fused together. Conforms to military spec. LP 387A, Type N.D.P., LP509. Electrically non-conductive and abrasion resistant.

#### Appearance:

All sides are beveled for a neat finished look. Straight edge cut also avail.

#### **Application:**

Valve Tags provided with mounting holes.

#### **Physical Characteristics:**

Standard: 3 ply 1/16" thick for engraving on one or two side. Special: 3 ply 1/8" thick for engraving on one or two sides.

#### **Dimensional Information:**

Valve Tags are available in round or square 1½" or 2" sizes. \*Larger sizes also available.

#### **Durability:**

Indoor - Indefinite

Outdoor - Limited (6-12 months susceptible fading)

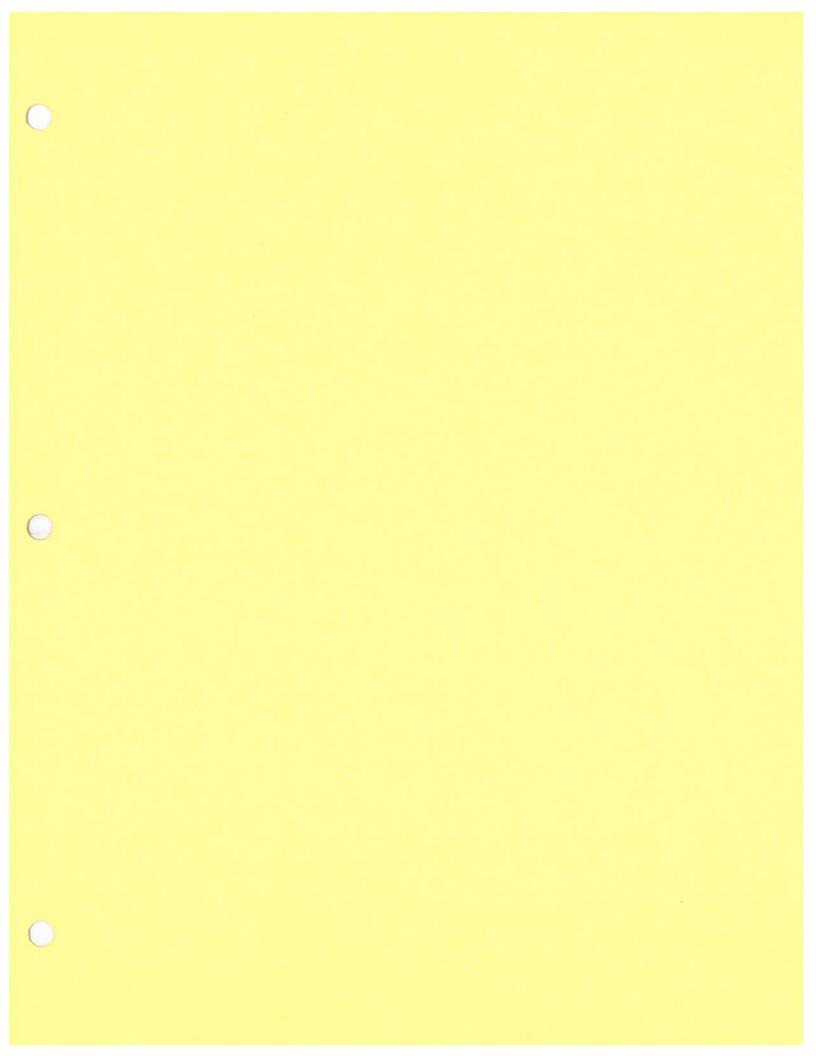
#### **COLORS AVAILABLE**

Lettering
White
Black
White
Black
White
White

#### **Letter Sizes:**

3/16", 5/16", 9/16" and 1" Letter sizes are determined by size of tag, number of lines, and number of characters per line.

DATE:/	 JOB:	
CONTRACTOR:	 	





### **Detectable Underground Tapes**



#### **Features**

- Solid aluminum foil core tapes for protection, location and identification of underground utility installations
- Meets or exceeds industry standards including the American Public Works Association (APWA) color code
- Formulated to resist degradation from acid and alkali found in soils
- · Lead-free pigments and organic lead-free ink

#### Models Specifications

Description	Catalog #
Detectable Underground Tape: "CAUTION BURIED ELECTRIC LINE BELOW", Red, 3 in. x 1,000 ft.	42-201
Detectable Underground Tape: "CAUTION BURIED ELECTRIC LINE BELOW", Red, 6 in. x 1,000 ft.	42-251
Detectable Underground Tape: "CAUTION BURIED FIBER OPTIC LINE BELOW", Orange, 6 in. x 1,000 ft.	42-252

©2011 IDEAL INDUSTRIES, INC. All rights reserved.