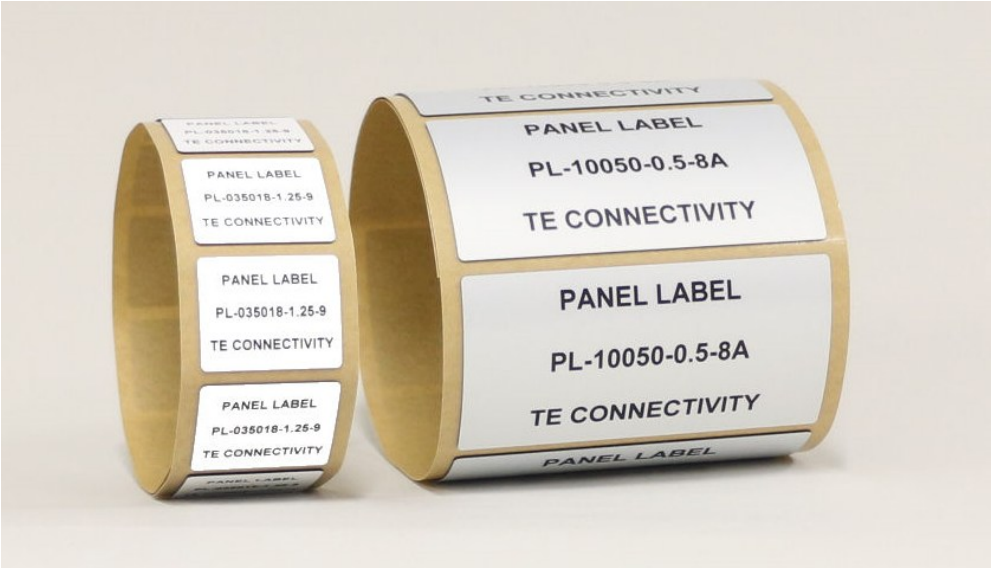


PL Panel Labels

Technical Datasheet

TTDS-245 Revision 6 - May 2026

PL is a thermal transfer printable polyester label available as gloss white or satin metalized. It has been designed for general purpose applications that require a high durability.

Typical applications include: industrial control panels, data racks, switchgear and general equipment labelling.

PL utilizes a compressible polyethylene foam adhesive which enables good bonding onto rough, textured and powder coated surfaces.

PL is UL recognised to PGJI2 and PGJI8 for indoor and outdoor applications.

The PL Panel Label solution comprises a complete Identification system with compatible printers, software and ribbons.

PL print performance and durability can only be guaranteed when printed using TE Connectivity printers and ribbons as defined in TE document 411-121005.

PL Panel Labels

Features

- Thermal Transfer Printable
- Range of sizes in gloss white or metalized silver finish
- Designed to withstand exposure to industrial fluids and solvents, and abrasion with frequent handling
- Excellent bonding properties on textured and painted surfaces
- Good shock absorbance & impact resistance

Temperature Rating

- Operating Temperature Range:

  -40 to 80°C (-40°F to 176°F)
- Withstand 100°C (212°F) for 1 000 hours
- Minimum Application Temperature 10°C (50°F)

Specifications / Approvals

Industry UL recognized PGJI2 and PGJI8 - file MH17292 - "**PL-9**" for Gloss White
"**PL-8A**" for Satin Metalized

Applications

- Ideal for vertical application with exceptional shear strength
- Electrical applications: cabinets, data racks, control panels, switchgear and general equipment labelling.
- Industrial
- Rail

Design for Environment

- Does not contain any declarable or prohibited sub-stances from the UNIFE Railway Industry Substances List
- Further information and a downloadable declaration covering RoHS and REACH compliance can be found at the TE Product Compliance Support Centre:

http://www.te.com/usa-en/utilities/product-compliance.html

Shelf Life

2 years when following good commercial storage practice detailed below.

Storage

Product should be stored in the original packaging, with any plastic covers which were included during shipping. Store out of direct sunlight in a clean, dry, dust free, environment.

Product should be stored at approximately 22°C and 50% relative humidity.

Technical Performance

	Requirement	Results	
Print Permanence			
Marking of Electrical Insulating Materials, SAE AS 5942	Legible after 50 rubs with an eraser of 1kg weight	Pass	
Resistance to Solvents, MIL STD 202 Method 215	Legible after 30 brush strokes	Pass	
Abrasion, TE method 109-121020	Legible after 175 cycles - 0.5 kg weight with Taber wheel CS10	Pass	
Fluid Exposure		**Adhesive**	**Printed legend**
Immersion, TE method 109-121012			
• Isopropyl alcohol	24 hours immersion At 23°C followed by 20 wipes 1kg weight Labels to remain on aluminum and legible	Pass	Pass
• IRM 902		Pass	Pass
• MIL PRF 23699		Pass	Pass
• MIL-H-83282		Pass	Pass
• Diesel Fuel		Pass	Pass
• Kilfrost DF plus		Pass	Pass
• Tap water		Pass	Pass
• 5% Salt solution		Pass	Pass
• Detergent (1% solution)		Pass	Pass
• Skydrol LD4		Pass	Pass
Adhesion		**Typical Peel force in N/25mm (oz/in.)**	
		20min Dwell	**72hr Dwell**
Peel, Finat FTM1**:**			
• Stainless steel	180° angle Dwell time 23°C 50% RH	50 (285)	50 (285)
• Glass		60 (342)	70 (400)
• Aluminium		45 (256)	70 (400)
• Polypropylene		15 (85)	15 (85)
• Tufnol		50 (285)	55 (313)
• Epoxy painted surface		60 (342)	60 (342)
Probe Tack, ASTM D2979	1 sec dwell - 1cm per sec separation 10 times at 23°C / 50% RH	**Typical in N (oz) on 5mm diameter contact** 10 (36)	
• Stainless steel			
Static Shear, PSTC-107	20mn dwell time - 23°C / 50% RH 1 Kg load	**Typical in Hours on 25mm square contact** 174hr adh. failure / clean peel	
• Mirror finished steel			
Artificial weathering UV-A and UV-B		**Adhesive**	**Printed legend**
Fluorescent UV testing, ASTM G154	Remain on Aluminium and legible after 1000hr exposure, with no crazing / cracking or powder residue	Pass	Pass, little fading
Xenon Arc Exposure, ASTM G155		Pass	Pass, slight color change
Thermal performances	Remain on Aluminium and legible	**Adhesive**	**Printed legend**
Heat Aging	1440hr at 90°C	Pass	Pass, little fading
Heat Shock	4hr at 140°C	Pass	Pass
Low Temperature storage	168hr at –50°C	Pass	Pass
Thermal Cycling	10 cycles of 1hr at -50°C then 1hr at 90°C	Pass	Pass

Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit, form and function.

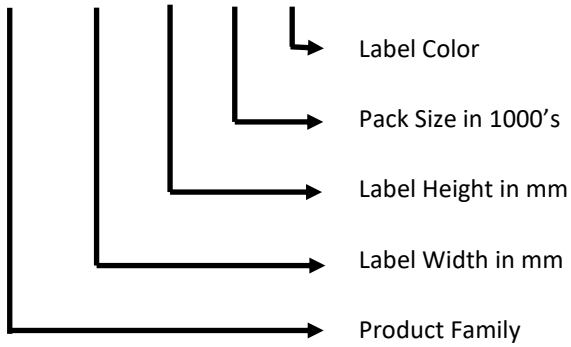
Typical Label Thickness

- Label (including adhesive): 0.760 mm / 0.03 inch
- Liner: 0.100 mm / 0.004 inch

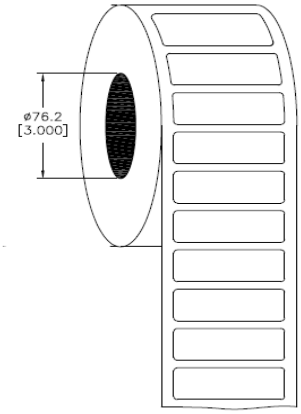
Ordering Information

Part Description

PL - 060 030 - 2.5 - 8A



Roll presentation

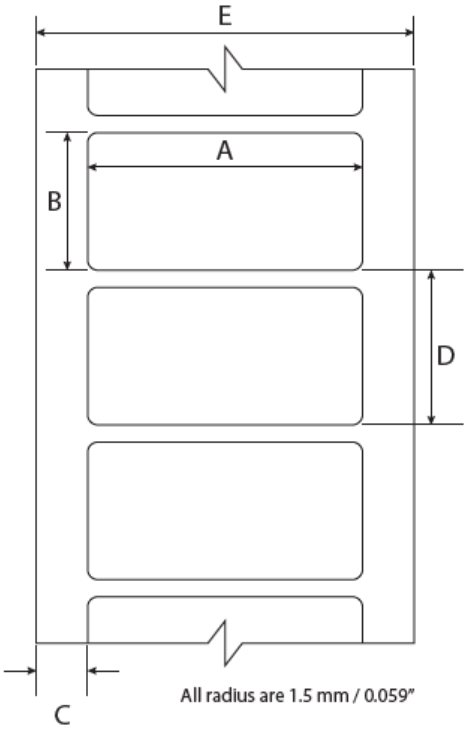


Outside wound on
76.2mm / 3" core diameter

Color Code

8A Satin Metalized 9 Gloss White

Liner Design



Available Standard Descriptions

Product Description	Color	Pack Qty	Labels across	(A) Label Width		(B) Label Height		(C) Left Margin		(D) Vertical Repeat		(E) Web Width	
		Pieces	Piece	mm	inch	mm	inch	mm	inch	mm	inch	mm	Inch
PL-027008-2.5-8A	Satin Metalized	2,500	1	27.0	1.063	8.0	0.315	5.0	0.197	11.43	0.450	37.0	1.457
PL-027008-2.5-9	Gloss White	2,500	1	27.0	1.063	8.0	0.315	5.0	0.197	11.43	0.450	37.0	1.457
PL-027013-1.5-8A	Satin Metalized	1,500	1	27.0	1.063	13.0	0.512	5.0	0.197	16.33	0.643	37.0	1.457
PL-027013-1.5-9	Gloss White	1,500	1	27.0	1.063	13.0	0.512	5.0	0.197	16.33	0.643	37.0	1.457
PL-027018-1.25-8A	Satin Metalized	1,250	1	27.0	1.063	18.0	0.709	5.0	0.197	21.17	0.833	37.0	1.457
PL-027018-1.25-9	Gloss White	1,250	1	27.0	1.063	18.0	0.709	5.0	0.197	21.17	0.833	37.0	1.457
PL-027027-1-8A	Satin Metalized	1,000	1	27.0	1.063	27.0	1.063	5.0	0.197	30.16	1.188	37.0	1.457
PL-027027-1-9	Gloss White	1,000	1	27.0	1.063	27.0	1.063	5.0	0.197	30.16	1.188	37.0	1.457
PL-035018-1.25-8A	Satin Metalized	1,250	1	35.0	1.378	18.0	0.709	5.0	0.197	21.17	0.833	45.0	1.722
PL-035018-1.25-9	Gloss White	1,250	1	35.0	1.378	18.0	0.709	5.0	0.197	21.17	0.833	45.0	1.722
PL-036028.5-0.75-8A	Satin Metalized	750	1	36.0	1.417	28.5	1.122	5.0	0.197	31.75	1.250	46.0	1.811
PL-036028.5-0.75-9	Gloss White	750	1	36.0	1.417	28.5	1.122	5.0	0.197	31.75	1.250	46.0	1.811
PL-045015-1.5-8A	Satin Metalized	1,500	1	45.0	1.772	15.0	0.591	5.0	0.197	18.56	0.731	55.0	2.165
PL-045015-1.5-9	Gloss White	1,500	1	45.0	1.772	15.0	0.591	5.0	0.197	18.56	0.731	55.0	2.165
PL-050025-1-8A	Satin Metalized	1,000	1	50.0	1.969	25.0	0.984	5.0	0.197	28.22	1.111	60.0	2.362
PL-050025-1-9	Gloss White	1,000	1	50.0	1.969	25.0	0.984	5.0	0.197	28.22	1.111	60.0	2.362
PL-060030-0.75-8A	Satin Metalized	750	1	60.0	2.362	30.0	1.181	5.0	0.197	33.34	1.313	70.0	2.756
PL-060030-0.75-9	Gloss White	750	1	60.0	2.362	30.0	1.181	5.0	0.197	33.34	1.313	70.0	2.756
PL-090045-0.5-8A	Satin Metalized	500	1	90.0	3.543	45	1.772	5.0	0.197	48.26	1.900	100.0	3.937
PL-090045-0.5-9	Gloss White	500	1	90.0	3.543	45	1.772	5.0	0.197	48.26	1.900	100.0	3.937
PL-100050-0.5-8A	Satin Metalized	500	1	100.0	3.937	50	1.969	3.0	0.118	53.34	2.100	106.0	4.173
PL-100050-0.5-9	Gloss White	500	1	100.0	3.937	50	1.969	3.0	0.118	53.34	2.100	106.0	4.173

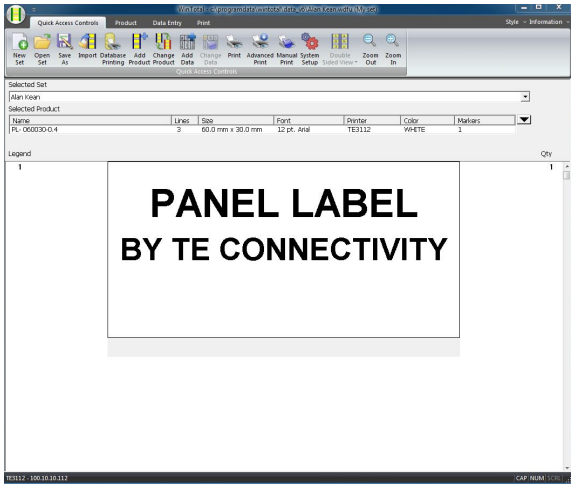
Other sizes upon request

Printer Information

Print quality and print performance can only be guaranteed when specific TE printer and ribbons are used.

The current list of printers and ribbons can be found in TE document 411-121005 ‘Identification Printer Product Ribbon Matrix’. This document can be found in ‘Access Our Tools’:

http://www.te.com/usa-en/utilities/access-product-tools-and-resources.html



Software

WINTOTAL software, available to download for a 14 day evaluation period from the Identification Printer Software page:

http://www.te.com/usa-en/products/identification-labeling/printers-software/printing-software.html?tab=pgp-story

Print Easy software also available.

Contact a TE representative for further information.

www.te.com/rail