

TKM and BKM Hand Writable, Self-laminating labels

Technical Datasheet

TTDS-056 Revision 2

February 2025

TKM and BKM labels provide a convenient way to write on and then protect the information on labels. The labels can be used in 'WRAP self-laminating' mode and 'FLAG self-laminating mode. They work very well on any wire, cable or pipe; they just need to wrap or flag completely around the part until the clear tail covers the writing on the label.

These labels are made from a clear, flexible vinyl with a permanent adhesive. In this way, they adhere tightly to wires, cables or pipes even when subjected to regular handling.

TKM and BKM print performance and durability can only be guaranteed when:

- Write-on with TE Connectivity permanent marker ZUB-01 (1-1768050-0).
- Applied on wire & cable using repeatable self-laminated labelling guide 411-121050.

Labels are supplied as individual sheets for BKM and booklets/pocket packs for TKM.

TKM AND BKM LABELS

Features

- Suitable for marking wires, cables and pipes.
- Hand writable surface.
- Protects written information from chemicals and frequent handling.
- Resistant to dirt, water, alcohol, gasoline, oils and greases.
- Available in multiple colors and/or dimensions.

Applications

- Ideal for identification of wires, cables and pipes.
- Industrial, Warehouse, Laboratory and Electrical.

Temperature rating

- Operation Temperature Range:
-40°C to 110°C (-40°F to 230°F)
- Minimum Application Temperature: 10°C (50°F)

Design for Environment

- Does not contain any RoHS (EU 2015/863) substance
- Does not contain any California Prop 65 substances.
- No restricted substances as listed in the Toxic Substances Control Act
- 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

- Two 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 21°C (70°F) and 50% R.H.

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.



TKM AND BKM LABELS

Typical Label Thickness

- Label (including adhesive) : 0.104 mm / 0.0041 inch
- Liner: 0.141 mm / 0.0056 inch

Technical performance

Technical performance		Requirements	Results	
Adhesion			Typical Peel force (N/25mm (oz/in.))	
Adhesion to backing		FTM1 (180°)	20min Dwell	72hr Dwell
			13.51 N/25mm (49.31 oz/in.)	21.87 N/25mm (79.81 oz/in.)
Adhesion to stainless steel		FTM1 (180°)	20min Dwell	72hr Dwell
			14.36 N/25mm (52.41 oz/in.)	20.44 N/25mm (74.61 oz/in.)
Fluid Exposure ⁽¹⁾			Adhesive/color	Printed legend
• Engine oil	Labels to remain wrapped on mandrel, legible ⁽²⁾ and no change in pre-printed color	Samples wrapped around 8mm mandrels for a 72 hours dwell time followed by a 24 hours immersion in fluid at 23°C.	Pass	Pass
• Diesel oil			Pass	Pass
• Tap water			Pass	Pass
• Molybdenum based grease	Pass		Pass	
• IRM 902	Pass		Pass	
• 1% Detergent Solution	Pass		Pass	
• 5% Salt Solution	Pass		Pass	
Thermal performance				
Heat Ageing	Labels to remain on plate, no discoloration and legible ⁽²⁾ after 168hr at 110±2°C		Pass ⁽³⁾	
Thermal Cycling	Labels to remain on plate, no discoloration and legible ⁽²⁾ after 10 cycles of 1 hour at -40°C then 1 hour at 110°C		Pass	

⁽¹⁾: Resistant to wiping with IPA but not to immersion, slight fluid ingress observed after immersion

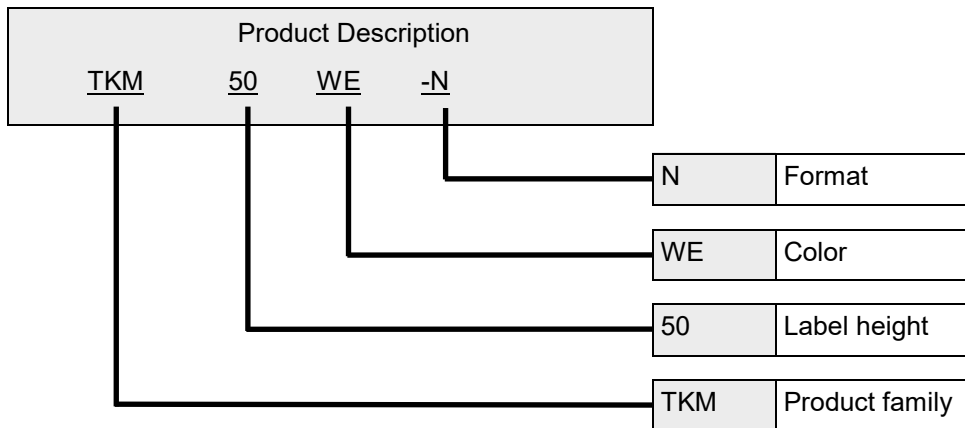
⁽²⁾: According to TE doc 109-121012

⁽³⁾: A slight discolouration of the label was observed

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TKM AND BKM LABELS

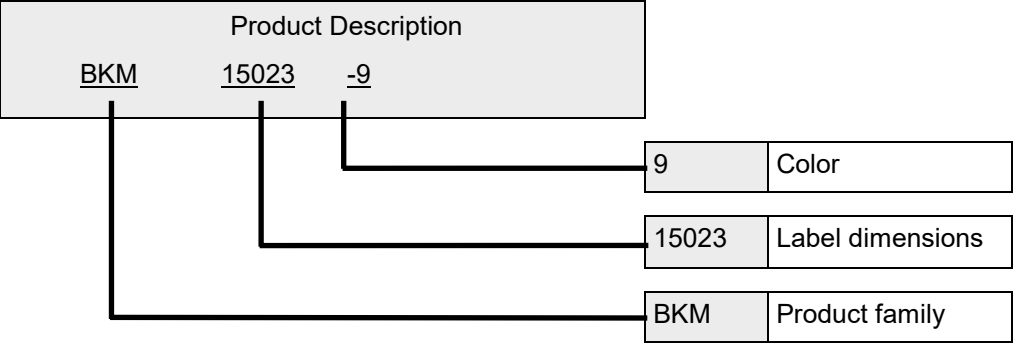
Ordering information TKM



Product description	Part number	Label height (mm)	Label width (mm)	Writable area height (mm)	Color	Format	Labels per pack	Cable diameter [min-max] (mm)
TKM50WE-N	7-1768048-7	50	25	15	White	Booklet	90	[6-10]
TKM75-N	8-1768048-1	75	25	25	White	Booklet	60	[10-14]
TKM75-LB	1-1768402-7	75	25	25	White	Pocket pack	1200	[10-14]
TKM150-N	6-1768048-2	150	25	25	White	Booklet	30	[10-38]
TKM150-LB	1-1768402-0	150	25	25	White	Pocket pack	600	[10-38]
TKM230-N	6-1768048-6	230	25	25	White	Booklet	30	[10-63]

TKM AND BKM LABELS

Ordering information BKM



Product description	Part number	Label height (mm)	Label width (mm)	Writable area height (mm)	Color	Format	Labels per pack	Cable diameter [min-max] (mm)
BKM-3823-9	5-1768016-4	38	23	10	White	Sheet of 4	40	[5-7]
BKM-7523-9	5-1768016-7	75	23	25	White	Sheet of 20	2000	[10-14]
BKM-7546-9	6-1768016-2	75	46	25	White	Sheet of 10	1000	[10-14]
BKM-15023-9	4-1768016-4	150	23	25	White	Sheet of 10	1000	[10-38]
BKM-15046-9	4-1768016-7	150	46	25	White	Sheet of 5	50	[10-38]
BKM-23025-9	5-1768016-1	230	25	25	White	Sheet of 6	60	[11-63]
BKM-23050-9	5-1768016-2	230	50	25	White	Sheet of 3	300	[11-63]

Writing information



Writing quality and performance can only be guaranteed when specific TE pen ZUB-01 is used : PN 1-1768050-0



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