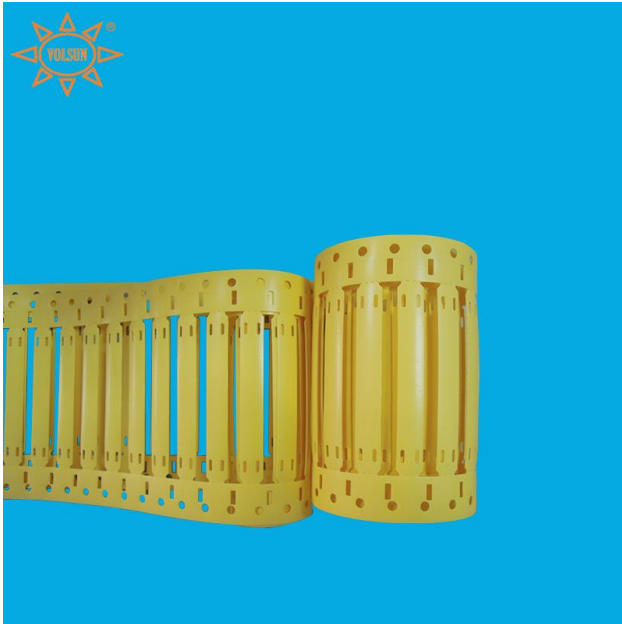




## MTVLO

### Military Grade, High Temperature, Oil Resistant Cable Identification Tags



#### Description

**MTVLO**-Military Grade, High Temperature, Oil Resistant Marker Tags are made by means of bombardment and cross-linking of the environmentally friendly polyolefin with high energy electron beams. MTVLO boasts amazingly high fluid resistance at high temperature for long time like JP-8 used for aviation fuel oil. Marker tags are non-adhesive that can be used to identify EMU for high-speed rails, subways, submarines and aerospace. Marker tags are attached on large cables and wire bundles with cable ties and keep permanent identification.

#### Features

- Resistant to high temperature fuel oil, lubricating oil and other organic solvent
- Side entry Marker tags to big size cables and wire bundles retrofit and repair capability, without broken circuit and run down the machines.
- Easy installation: only standard cable tie-wraps are needed to install marker tags. No extra steps required
- High temperature resistance, rated temp. 135°C
- High flame retardant, VW-1
- ROHS compliant
- Permanent identification, No melting at high temperature, no brittle in low temperature
- Computer-printable, any characters and logo are easy to design.



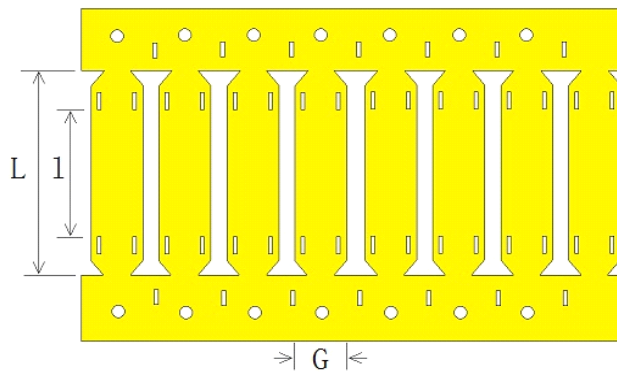
## Rated Temperature

- Continuous operating temperature:  $-55^{\circ}\text{C} \sim 135^{\circ}\text{C} / -67^{\circ}\text{F} \sim 275^{\circ}\text{F}$
- Max. storage and transportation temp.:  $\leq 50^{\circ}\text{C} / 122^{\circ}\text{F}$

## Standards

- American military standards AMS-DTL-23053/6, NF F 00-608
- Color Code Soundness: SAE-AS 81531 and MIL-STD-202F/215J

## Structure



## Dimensions

Order description	Width G(mm)	L Length(mm)	Printed Characters		Cable OD(mm)
			Height G	Length l	
MT-VLO-10.4-45/4-	10.4	45	10.4	25	5.08 ~ 12.7
MT-VLO-10.4-53/4-	10.4	53	10.4	33	5.08 ~ 12.7
MT-VLO-10.4-64/4-	10.4	64	10.4	44	5.08 ~ 12.7



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MT-VLO-10.4-76/6-	10.4	76	10.4	56	5.08 ~ 12.7
MT-VLO-10.4-90/6-	10.4	90	10.4	70	5.08 ~ 12.7
MT-VLO-15.0-45/4-	15.0	45	15.0	25	12.7 ~ 19.1
MT-VLO-15.0-53/4-	15.0	53	15.0	33	12.7 ~ 19.1
MT-VLO-15.0-64/4-	15.0	64	15.0	44	12.7 ~ 19.1
MT-VLO-15.0-76/6-	15.0	76	15.0	56	12.7 ~ 19.1
MT-VLO-15.0-90/6-	15.0	90	15.0	70	12.7 ~ 19.1
MT-VLO-20.3-45/4-	20.3	45	20.3	25	19.1 ~ 25.4
MT-VLO-20.3-53/4-	20.3	53	20.3	33	19.1 ~ 25.4
MT-VLO-20.3-64/4-	20.3	64	20.3	44	19.1 ~ 25.4
MT-VLO-20.3-76/6-	20.3	76	20.3	56	19.1 ~ 25.4
MT-VLO-20.3-90/6-	20.3	90	20.3	70	19.1 ~ 25.4
MT-VLO-25.4-45/4-	25.4	45	25.4	25	>25.4
MT-VLO-25.4-53/4-	25.4	53	25.4	33	>25.4
MT-VLO-25.4-64/4-	25.4	64	25.4	44	>25.4
MT-VLO-25.4-76/6-	25.4	76	25.4	56	>25.4
MT-VLO-25.4-90/6-	25.4	90	25.4	70	>25.4

## Technical Performance

Performance	Indicators	Test Method
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Typical properties	Unit	States		
Tensile Strength	Mpa	Unaged	≥13.8	ASTM G 154, MIL-DTL-23053E ISO 37, 500mm/min 175°C, 168h, ISO188
		Heat aged/ After fluids/UV aged	≥11.1	
Elongation at break	%	Unaged	≥200	
		Heat aged/ After fluid	≥100	
Secant Modulus	Mpa	Unaged	<173	ASTM D 882
Voltage Withstand	V	Unaged / After aged	2500V , No breakdown in 60 sec.	IEC 243, ASTM G 154
Dielectric Strength	MV/m	Before aged	≥19.7	175°C, 168h, ISO 188
		Heat aged/ After fluid/ UV aged	≥15.8	
Volume Resistivity	Ω.cm	Unaged	≥10 <sup>14</sup>	IEC 93
Dielectric constant	-	Unaged	≤3.2	ASTM 150
Water Absorption	-	Unaged	≤0.5	ASTM 570, 23°C, 24h
Bare Copper Corrosion	-	Unaged	No corrosion	23°C, Rh 95±5%,24h 175°C,16h
Heat Shock	-	Unaged	No cracks, flowing, dripping	Wind to the specified mandrel, 225°C, 4h
Cold Flexibility	-	Unaged	No cracks	Wind to the specified



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				mandrel, -30°C, 1h
Flammability	-	Unaged	VW-1	IEC 60332-1-3 Ed.1.0 b:2004
Smoke Density	-	Unaged	-	DIN 5510-2
Toxicity Index	-	Unaged	-	BS 6853:1999