



MTVLN

Halogen Free, Low Smoke, Highly Flame Retardant, Cable Identification Tags



Description

MTVLN halogen free, low smoke, highly flame retardant marker tags are made by means of bombardment and cross-linking of the environmentally friendly polyolefin with high energy electron beams. Marker tags are non-adhesive that can be used to identify EMU for high-speed rails, subways, motor train units, submarines and aerospace. Marker tags are attached on large cables and wire bundles with cable ties and keep permanent identification.

Features

- Halogen free low smoke emitting materials, ideal for identifying motor train unit, rail transit, aerospace and naval vessels
- Not necessary to disconnect the electrical return circuit when installing the identification maker labels
- Using the binding wire, easy to handle
- Temperature resistance, rated temperature 125°C
- Highly flame retardant, low toxicity index, meets international locomotive standards
- RoHS compliant, meets SONY SS-00259
- Permanent identification, not melting in high temp., not turning fragile in low temp., resistant to scrape, rub, abrasion
- Computer-printable, any character and logo are easy to design.



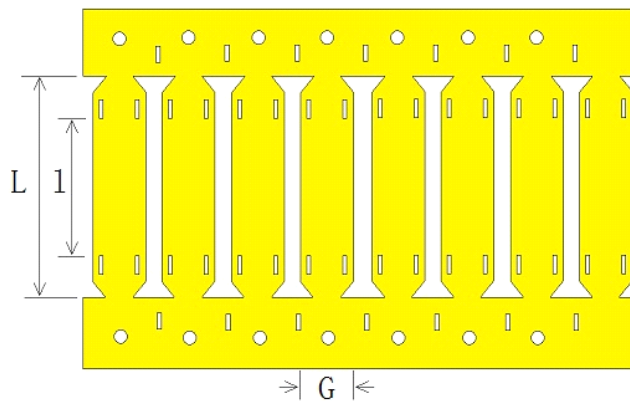
Rated Temperature

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

Standards

- Material standards: ASTM D 2671/DIN5510-2
- British/French smoke toxicity standards: BS 6853/NF F 16-101
- Color code soundness: SAE-AS 81531 and MIL-STD-202G/215K

Structure



Dimensions

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



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

Technical Performance



Performance			Indicators	Test Method
Typical properties	Unit	States		
Tensile Strength	Mpa	Unaged	≥10.3	ASTM G 154,MIL-DTL-23053E ISO 37,500mm/min 175°C,168h,ISO 188
		Heat aged/ After fluids/UV aged	≥6.9	
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 ¹⁴	IEC 93
Dielectric constant	-	Unaged	-	ASTM 150
Water Absorption	-	Unaged	≤1.0	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



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Cold Flexibility	-	Unaged	No cracks	Wind to the specified mandrel,-30°C,1h
Flammability	-	Unaged	DIN 5510, S3	DIN 5510-2
Smoke Density	-	Unaged	≤0.017	DIN 5510-2
Toxicity Index	-	Unaged	≤1	BS 6853:1999