HTX - 2 Heat Shrinkable Wire Markers

11/2018

MARK HTX - 2

The HTX - 2 Heat Shrinkable Wire Markers are made of flame retardant, self-extinguishing flexible heat shrinkable polyolefin tubing with ideal printability properties for identificatio purposes.
This product is designed for aerospace, military, defense and marine applications where UL224 and SAE-AMS-DTL-23053/5 class 1 & 3 characteristics are required.

Dimensions

Size, Inches	Size, mm	Minimum ID, as supplied mm (Inches)	Maximum ID, Recovered mm (inches)	Recovered wall thickness, mm
3/32	2.4	2.5 (0.098)	1.18 (0.046)	0.49 ±0.06
1 /8	3.2	3.6 (0.142)	1.59 (0.063)	0.51 ±0.06
3/16	4.8	5.2 (0.189)	2.36 (0.093)	0.54 ±0.06
1/4	6.4	6.7 (0.263)	3.18 (0.125)	0.56 ±0.06
3/8	9.5	10.0 (0.393)	4.75 (0.187)	0.59 ±0.06
1/2	12.7	13.6 (0.53)	6.35 (0.250)	0.60 ±0.07
3/4	19.1	20.4 (0.80)	9.53 (0.374)	0.62 ±0.07
1	25.4	27.0 (1.06)	12.7 (0.500)	0.63 ±0.07
1 ½	38.1	40.0 (1.57)	19.1 (0.750)	0.64 ±0.07
2	50.8	50.8 (2.0)	25.4 (1.00)	0.64 ±0.08

Physical

Properties	Test Method	Typical value
Tensile strength	ASTM D 638	10.3 Mpa (min.)
Elongation at break	ASTM D 638	>200%
Longitudinal change	UL224	+/-5%
Water absorption	SAE-AMS-DTL-23053/5	0,09%
Specific gravit	ASTM D 792	1.34g/cm³
2% Secant Modulus	SAE-AMS-DTL-23053/5	118 Mpa

Electrical

Properties	Test Method	Typical value
Dielectric strength	ASTM D876	19.7 kV/mm²
Volume resistivity	ASTM D876	≥10^{14}Ω/cm
Voltage Rating	UL224	600 Volt

Standard colours
Yellow, white

Other tube colours available request

Material
Extruded, cross linked polyolefi

Operating temperature
-55°C to +135°C

Minimum shrink temperature
>90°C

Compliances
Mark Permanence:
SAE AS-5942 Supersedes SAE 81531:1998, point 4.6.2.
Recommended black ribbons:
356126 (FTI-M), 356294 (FTI-Y), 123534 (FTI-X)
Chemical resistance to solvents:
AMS-DTL-23053/5
MIL-STD.-202G test method 215J

Industry Standards
SAE-AMS-DTL-23053/5 class 1 &3
NFPA 130

Flammability
UL224 125°C 600VW-1
File E203950
CSA 125°C 600VW-1
File 220127

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Chemical

Properties	Test method	Typical value
Chemical resistance	AMS-DTL-23053/5	Good
Copper corrosion	SAE-AMS-DTL-23053/5	No corrosion
Copper stability	SAE-AMS-DTL-23053/5	No corrosion
Fluid resistance (23°C, 24h)	ASTM D638	6.9 Min

Thermal

Properties	Test method	Typical value
Heat shock 4 hours at 250°C	AMS-DTL-23053/5	No dripping, cracking or flowin
Heat aging 168 hours at 175°C	ASTM D 638	Elongation 100%
Low temperature flexibilit	ASTM D 2671	No cracking - pass
Flammability	UL224 VW-1 - ASTM2671-13 Section 68 - SAE-AMS-DTL23053/SA	Pass » flame retardan

Compliance on fire behavior for Identification Products

	Test Method		
Standards	**Flame Propagation Flame Spread Index**	**Smoke Optical Density**	**Heat and Visible Smoke Release / Toxicity**
NFPA130	ASTM E 162	ASTM E 662	ASTM E 1354
Normatives	**Flammability Spread Index**	**Smoke Optical Density**	**Heat and Visible Smoke Release / Toxicity**
NFPA130	Pass	Pass	Pass

Carrier liner
White, non-coated, medium range thermal sensitive paper cardstock.
Thickness 185 ± 10 µm. Width 109mm ± 0.5mm.

Adhesive backing
Clear, polyethylene film coated with an acrylic-based pressure sensitive adhesive
Thickness 0.10mm. Width 72/85mm.

The products are supplied on a thermal sensitive card stock liner converted into a ladder construction offering superb organization of the markers. The card stock liner is die-cut with cavities where the sleeves are applied, supported by a backing adhesive.

RoHS

Storage
Cool and dry in original packaging. Recommended temperature at +10°C to +25°C and 45-55% relative humidity
Use within 5 years from date of Manufacture.

Printer recommended
CAB SQUIX 4/300dpi printer

Applications
Specifically developed to be used in aerospace, military, defense,marine cable harnesses,marking insulation, wire bundling and mechanical protection.

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Ordering information, other sizes, colours and formats available

Nominal Marker Size (Diameter X Length)	Markers Across	Markers Box	Order Codes YELLOW	Order Codes WHITE	TEXIT Software Codes
2.4 x 12.5 mm, 3/32" x ½"	4	4000	500109	502103	H100
2.4 x 19 mm, 3/32" x ¾"	2	2000	500133	501227	H101
2.4 x 25 mm, 3/32" x 1"	2	2000	500157	502141	H102
2.4 x 38 mm, 3/32 x 1 ½"	1	1000	500181	502165	H103
2.4 x 50 mm, 3/32" x 2"	1	1000	500205	502189	H104
3.2 x 12.5 mm, 1/8" x ½"	4	4000	500253	502257	H105
3.2 x 19 mm, 1/8" x ¾"	2	2000	500277	502271	H106
3.2 x 25 mm, 1/8" x 1"	2	2000	500291	502295	H107
3.2 x 38 mm, 1/8" x 1 ½"	1	1000	500314	502318	H108
3.2 x 50 mm, 1/8" x 2"	1	1000	500338	502332	H109
4.8 x 12.5 mm, 3/16" x ½"	4	4000	500406	502400	H110
4.8 x 19 mm, 3/16" x ¾"	2	2000	500420	502424	H111
4.8 x 25 mm, 3/16" x 1"	2	2000	500444	502448	H112
4.8 x 38 mm, 3/16" x 1 ½"	1	1000	500468	502462	H113
4.8 x 50 mm, 3/16" x 2"	1	1000	500482	502486	H114
6.4 x 12.5 mm, ¼" x ½"	4	4000	500550	502554	H115
6.4 x 19 mm, ¼" x ¾"	2	2000	500574	502578	H116
6.4 x 25 mm, ¼" x 1"	2	2000	500598	502592	H117
6.4 x 38 mm, ¼" x 1 ½"	1	1000	500611	502615	H118
6.4 x 50 mm, ¼" x 2"	1	1000	500635	502639	H119
9.5 x 12.5 mm, 3/8" x ½"	4	2000	500703	502707	H120
9.5 x 19 mm, 3/8" x ¾"	2	1000	500727	502721	H121
9.5 x 25 mm, 3/8" x 1"	2	1000	500741	502745	H122
9.5 x 38 mm, 3/8" x 1 ½"	1	500	500765	502769	H123
9.5 x 50 mm, 3/8" x 2"	1	500	500789	502783	H124
12.7 x 19 mm, ½" x ¾"	2	1000	500871	502875	H126
12.7 x 25 mm, ½" x 1"	2	1000	500895	502899	H127
12.7 x 38 mm, ½" x 1 ½"	1	500	500918	502912	H128
12.7 x 50 mm, ½" x 2"	1	500	500932	502936	H129
19.0 x 19 mm, ¾" x ¾"	2	1000	501021	503025	H131
19.0 x 25 mm, ¾" x 1"	2	1000	501045	503049	H132
19.0 x 38 mm, ¾" x 1 ½"	1	500	501069	503063	H133
19.0 x 50 mm, ¾" x 2"	1	500	501083	503087	H134
25.4 x 38 mm, 1" x 1 ½"	1	300	501212	503216	H138
25.4 x 50 mm, 1" x 2"	1	300	501236	503230	H139
38.1 x 50 mm, 1 ½" x 2"	1	100	501281	503254	H226

RoHS

Notes:
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