

Address: Buliding 2,E Zone,Minzhu Industrial Area,Shajing Town,Baoan District,Shenzhen City, GuangDong Province, China.

Tel: 0755-33666001 Fax: 0755-33807127 Http: //www.jddtech.com

SPECIFICATION FOR APPROVAL

Edition: A0 No: DW02800X-001

Product Name	Heat shrinkable tube
2:1 heat shrink tube	2:1 (H)

No.	Modification content	Reviser	Date

Manufacturer accepted:

Prepared by/Date	Checked by/Date	Approved by/Date
Yu e Yuan 14-05-2014	Fangming Yue 14-05-2014	Bo Yang 14-05-2014



Clientele accepted:

Inspected by/Date	Checked by/Date	Approved by/Date

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Product Introduction:

Halogen free heat shrinkable tube is newly developed environment-friendly flame retardant heat shrinkable tube. Using specially designed formulation of high polymers, through cross-link by electronic accelerator and continuous expansion. The properties of environment-friendly, flexibility flame retardant, quick shrink and stable performance make them widely used in the field of electronics, communication, automotive ,and widely applied for connecting or end-handling, electric wire, insulating and harness of electric wire, corrosion and rust-proof of metallic rods or tubes, antenna protection and marking for other products.

Technical Data:

Property	Test Method	Standard
Tensile strength (Mpa)	UL224	≥ 10.4 Mpa/UL224
Elongation (%)	158 \pm 1 $^{\circ}$ C,168hr/UL224	$\geq 200\%$
Tensile strength after aging (Mpa)	158 \pm 1 $^{\circ}$ C,168hr/UL224	≥ 7.3 Mpa/UL224
Elongation after aging (%)	158 \pm 1 $^{\circ}$ C,168hr/UL224	Elongation $\geq 100\%$
Heat shock	250 $^{\circ}$ C,4hr/UL224	No cracking
Cold blend	-30 $^{\circ}$ C,4hr/UL224	No cracking
Electrical:DielectricVoltage withstand	2500V,60sec/UL224	No breakdown
Volume resistivity (Ω .cm)	UL224	$\geq 10^{14}$ Ω .cm
Copper stability	158 \pm 1 $^{\circ}$ C,168hr/UL224	PASS
Corrosion of bare copper	UL224 158 $^{\circ}$ C*168H	PASS
Copper stability	UL224 158 $^{\circ}$ C*168H	PASS
Flammability	UL224	VW-1
Operating temperature	-55 $^{\circ}$ C~+125 $^{\circ}$ C	
Shrink temperature	Start at 70 $^{\circ}$ C ,and full recovery at 110 $^{\circ}$ C	
Shrink ratio	2:1	
Standard colors	Black,red,yellow,green,purple,blue,grey,brown Transparent color	

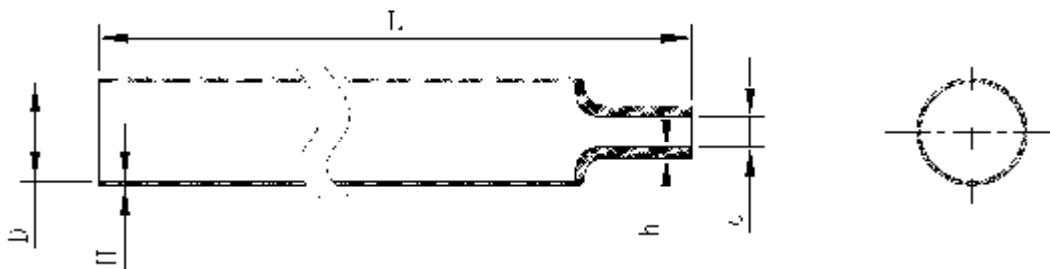
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Material component datasheet:

Material name	Structural formula	Usage purpose	Content %	CAS No.
EVA	$(\text{CH}_2\text{-CH}_2)$ $m\text{-}(\text{CH}_2\text{-CH-COO})$ $\text{CH}_3)_n$	The main agent	46%	24937-78-7
ATH	$\text{Mg}(\text{OH})_2$	Flame retardant	35%	1309-42-8
P	p	Flame retardant	14%	
Anti-oxide	$\text{C}_{78} \text{H}_{108} \text{O}_{12}$	Antioxidants	1%	
Color		Colorants	4%	

Drawing:



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Datasheet:

Part No.	As Supplied		After Recovery		Packing (L)	Range(mm)
	I.D (D)	Wall thickness (H)	Max I.D (d)	Wall thickness (h)		
MRS-0.6	0.9±0.2	0.15±0.05	≤0.40	≥0.26	200±2	0.4-0.7
MRS-0.7	0.9±0.2	0.15±0.05	≤0.45	≥0.26	200±2	0.5-0.7
MRS-0.8	1.1±0.2	0.15±0.05	≤0.50	≥0.26	200±2	0.6-0.8
MRS-1.0	1.5±0.2	0.20±0.05	≤0.65	≥0.36	200±2	0.75-0.9
MRS-1.5	2.0±0.3	0.20±0.05	≤0.85	≥0.44	200±2	0.95-1.4
MRS-2.0	2.5±0.3	0.20±0.05	≤1.00	≥0.44	200±2	1.1-1.8
MRS-2.5	3.0±0.3	0.25±0.05	≤1.25	≥0.44	200±2	1.35-2.3
MRS-3.0	3.5±0.4	0.25±0.05	≤1.50	≥0.44	200±2	1.6-2.7
MRS-3.5	4.0±0.4	0.25±0.05	≤1.75	≥0.44	200±2	1.85-3.2
MRS-4.0	4.5±0.4	0.25±0.05	≤2.00	≥0.44	200±2	2.1-3.6
MRS-4.5	5.0±0.4	0.30±0.05	≤2.25	≥0.56	100±1	2.35-4.0
MRS-5.0	5.5±0.4	0.30±0.05	≤2.5	≥0.56	100±1	2.6-4.5
MRS-5.5	6.0±0.4	0.30±0.05	≤2.75	≥0.56	100±1	2.8-5.5
MRS-6.0	6.5±0.4	0.30±0.05	≤3.0	≥0.56	100±1	3.1-5.4
MRS-6.5	7.0±0.4	0.30±0.05	≤3.25	≥0.56	100±1	3.2-6.0
MRS-7.0	7.5±0.4	0.30±0.05	≤3.5	≥0.56	100±1	3.7-6.3
MRS-8.0	8.5±0.5	0.32±0.05	≤4.0	≥0.56	100±1	4.2-7.2
MRS-9.0	9.5±0.5	0.32±0.05	≤4.5	≥0.56	100±1	4.7-8.0
MRS-10	10.5±0.5	0.32±0.05	≤5.0	≥0.56	100±1	5.2-9.0
MRS-11	11.5±0.5	0.32±0.05	≤5.5	≥0.56	100±1	5.7-10
MRS-12	12.5±0.5	0.32±0.05	≤6.0	≥0.56	100±1	6.2-11
MRS-13	13.5±0.5	0.35±0.05	≤6.5	≥0.69	100±1	6.7-12

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MRS-G-14	14.5±0.5	0.35±0.05	≤7.0	≥0.69	100±1	7.3-13
MRS-G-15	15.5±0.5	0.35±0.05	≤7.5	≥0.69	100±1	7.8-14
MRS-G-16	16.5±0.5	0.35±0.05	≤8.0	≥0.69	100±1	8.3-15
MRS-G-17	17.5±0.5	0.40±0.05	≤8.5	≥0.69	100±1	8.8-16
MRS-G-18	19.0±0.7	0.40±0.10	≤9.0	≥0.77	100±1	9.3-17
MRS-G-20	21.0±0.7	0.40±0.10	≤10.0	≥0.77	100±1	10.4-19
MRS-G-22	23.0±0.7	0.40±0.10	≤11.0	≥0.77	100±1	11.4-21
MRS-G-25	26.0±0.7	0.55±0.10	≤12.5	≥0.87	50±0.5	12.8-24
MRS-G-28	29.0±0.7	0.55±0.10	≤14.0	≥0.87	50±0.5	14.4-29
MRS-G-30	31.0±0.7	0.55±0.10	≤15.0	≥0.87	50±0.5	16-29
MRS-G-35	36.0±0.7	0.55±0.10	≤17.5	≥0.87	50±0.5	18-34
MRS-G-40	41.0±0.7	0.55±0.10	≤20.0	≥0.87	50±0.5	21-39
MRS-G-45	46.0±0.7	0.55±0.10	≤22.5	≥0.97	25±0.5	23-44
MRS-G-50	51.0±0.7	0.55±0.10	≤26.0	≥0.97	25±0.5	26-49

- Standard color:Black
- Standard packaging on spools.
- Operating temperature:-55~125℃
- Shrink temperature:70℃
- Shrink ratio:2:1
- Halogen free, UL, RoHs complaint
- Tool: Heat gun