

RSFR-H**2:1****RSFR-H - Heat shrinkable polyolefin tubing**UL approved
UL category YDPU2/8
File E203950

Item description:	Halogen Free - Flame Retardant – Heat Shrinkable Tube
Item Code:	RSFR-H
UL File:	E203950–Cat. UL YDPU2/8 (Tubing, Extruded Insulation – Component) VW-1 600Volt (colors recognized: all colors except clear)

This specification defines technical requirement, testing method, testing rules and packing of heat shrinkable tubes.

Applications

RSFR-H heat shrinkable tubing is used as connection, protection, identification... of electrical cables. Also used as electrical insulation, mechanical protection in general; as a protection of metallic rods, tubes, antenna...

Standard

Standard for Extruded Electrical Tubing UL224

Description

RSFR-H tube is extruded, radiate to make it cross linked, then expanded and cooled at the required size. It contains flame retardant components without halogens and without heavy metal so satisfying flame retardant and environmental standards. RSFR-H is Rohs and Reach SVHC compliant.

Technical requirements:

Temperature ranges: -55°C +125°C
Shrinking ratio: 2:1
Shrinking temperature: starts at 70°C and shrunk totally at 125°C
Longitudinal shrinking: ≤ 5% (±5%)

Colors:

Black is standard color. On request: Red, Blue, Yellow, Green, White. Other colors such as purple, grey, brown can be made according to customer's requirements.



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Technical specifications		Testing method	Requirement
Physical	Tensile strenght /MPa	GB/T1040	≥10.4
	Elongation %	GB/T1040	≥200
	Tensile strenght after aging /MPa	UL224 158°Cx168hr	≥7.3
	Elongation after aging %	UL224 158°Cx168hr	≥100
	Heat Resistance	UL224 250°Cx4hr	No cracking
	Cold bend	UL224 -30°Cx1hr	No cracking
Electrical	Dielectric withstand (600 V)	UL224	≥2500V 1 minute without breakdown
	Dielectric strenght KV/mm	GB/T1408	≥15
	Volume resistance Ω cm	GB/T1410	≥10 ¹⁴
Chemical	Anti corrosion	UL224 158°Cx168hr	Pass
	Copper stability	UL224 158°Cx168hr	Pass
	Flammability	UL224	VW-1 (except clear)

Dimensional values				
As supplied mm.		After recovery mm.		Packing mt.
Diam.mm.	Thickness mm.	Diam.mm.	Thickness mm.	
1.2	0.20 ± 0.05	≤ 0.6	0.33 ± 0.05	400
1.6	0.20 ± 0.05	≤ 0.8	0.36 ± 0.05	400
2.4	0.20 ± 0.05	≤ 1.2	0.44 ± 0.05	400
3.2	0.23 ± 0.05	≤ 1.6	0.44 ± 0.05	400
4.8	0.28 ± 0.05	≤ 2.4	0.44 ± 0.08	200
6.4	0.28 ± 0.05	≤ 3.2	0.56 ± 0.08	200
9.5	0.30 ± 0.08	≤ 4.8	0.56 ± 0.08	100
12.7	0.30 ± 0.08	≤ 6.4	0.56 ± 0.08	100
16.0	0.35 ± 0.10	≤ 8.0	0.69 ± 0.08	100
19.0	0.35 ± 0.10	≤ 9.5	0.77 ± 0.15	100
25.4	0.40 ± 0.12	≤ 12.7	0.89 ± 0.15	50
29.0	0.45 ± 0.12	≤ 14.5	0.89 ± 0.15	50
32.0	0.45 ± 0.12	≤ 16.0	0.89 ± 0.15	50
38.1	0.50 ± 0.12	≤ 19.0	1.00 ± 0.15	50
50.8	0.50 ± 0.15	≤ 25.4	1.00 ± 0.15	25
76.2	0.65 ± 0.15	≤ 38.1	1.30 ± 0.20	25
100	0.73 ± 0.15	≤ 50.8	1.46 ± 0.20	25
120	0.78 ± 0.15	≤ 60.0	1.56 ± 0.20	25

It must be stored in a dry place, inside plastic bags, away from direct sunlight, weathering, chemical materials, direct heat sources or fire. Storage time is 12 months.

The values given above are believed to be accurate and given as a matter of information only. As usage conditions are beyond our control we suggest the customer to confirm values and product compatibility prior to its use. We don't guarantee nor accept any responsibility for any particular usage.



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