

## HUS-GR High Flame Retardant Adhesive-lined Heat Shrink Tubing

### Description



HUS-GR Military Standard High Flame retardant Adhesive-lined Dual Wall Heat shrink tubing, high Flame retardant polyolefin PE tube which is extruded with flame-resistant EVA hot melt adhesive, is made in accordance with military standard.

It can suffer against mechanical strain, also has superior sealing capacity against water, corrosion, damp, etc. So it's widely used in all kinds of wire harnesses, ship equipment wires, cables and metal pipe.

### Feature & benefit

- 1, Meet military standard ASM-DTL-23053/4
- 2, High flame-retardant ( Both The outer PE and the inner EVA are flame retardant)
- 3, Shrink ratio: 3:1 , 4:1
- 4, Waterproof, damp-proof, anti-corrosion, anti-UV
- 5, According with RoHs

### Operating indexes:

- 1, First shrink temp.: 70°C
- 2, Final shrink temp.: 125°C
- 3, Operating temp.: -45°C ~ 135°C

### Up to standard: Approvals

Meet military standard ASM-DTL-23053/4, UL224, 135°C, 600V

## Technical Date

Product Properties	Test method	Test Date
Longitudinal shrink ratio	ASTM D 2671	-8%~+8%
Tensile strength	ASTM D 2671	≥12.2MPa
Elongation at break	ASTM D 2671	≥300%
Tensile strength after aging	175°C, 168hrs	≥8.5MPa
Elongation after aging		≥100%
Heat shock	ASTM D 2671 250°C, 4hrs	PASS
Cold bend (-30°C, 1hrs)	ASTM D 2671 -45°C, 4 hrs	No break
Breakdown strength	IEC 60243	≥15KV/mm
Corrosion	ASTM D 2671	Pass
Flammability	AMS-DTL-2305/5	Self-extinguish in 30 seconds
Volume resistance	IEC 60093	≥1014Ω.cm(min.)
Hot melt adhesive technology index		
water absorption	95 ± 5°C	ASTM E 28
Softening point	< 0.5%	ASTM D 570
peel strength (PE)	≥120N/25mm	ASTM D 1000
peel strength (Al)	≥80N/25mm	ASTM D 1000

## Dimension

Nominal Size		As supplied(mm)	After recovered ( mm )			Standard Packing (M/Roll)
(mm)	(inch)	D(min.) Inside diameter	d(min.) Inside diameter	WT: Wall Total thickness	t. Adhesive thickness	
<b>HUS-GR-3X</b>						
φ 3.2	1/8	≥3.2	≤1.00	0.95 ± 0.15	0.35 ± 0.10	200

φ 4.8	3/16	≥4.8	≤1.60	1.10 ± 0.15	0.40 ± 0.10	100
φ 6.4	1/4	≥6.4	≤2.20	1.20 ± 0.15	0.45 ± 0.12	100
φ 7.9	5/16	≥7.9	≤2.70	1.30 ± 0.15	0.50 ± 0.12	100
φ 9.5	3/8	≥9.5	≤3.20	1.40 ± 0.15	0.50 ± 0.12	50
φ 12.7	1/2	≥12.7	≤4.20	1.70 ± 0.15	0.50 ± 0.12	1.22
φ 15.0	5/8	≥15.0	≤5.20	1.80 ± 0.15	0.55 ± 0.15	1.22
φ 19.1	3/4	≥19.1	≤6.30	1.95 ± 0.15	0.55 ± 0.15	1.22
φ 25.4	1	≥25.4	≤8.50	2.05 ± 0.20	0.55 ± 0.15	1.22
φ 30.0	1-1/4	≥30.0	≤10.20	2.20 ± 0.20	0.60 ± 0.15	1.22
φ 39.0	1-1/2	≥39.0	≤13.50	2.50 ± 0.20	0.60 ± 0.15	1.22
φ 50.0	2	≥50.0	≤17.00	2.80 ± 0.25	0.70 ± 0.15	1.22
<b>HUS-GR-4X</b>						
φ 4.0	2/13	≥4.0	≤1.0	1.05 ± 0.30	0.50 ± 0.20	200
φ 6.0	1/4	≥6.0	≤1.5	1.15 ± 0.30	0.50 ± 0.20	100
φ 8.0	5/16	≥8.0	≤2.0	1.55 ± 0.30	0.60 ± 0.25	100
φ 12.0	1/2	≥12.0	≤3.0	1.75 ± 0.30	0.60 ± 0.25	1.22
φ 16.0	5/8	≥16.0	≤4.0	2.00 ± 0.35	0.70 ± 0.30	1.22
φ 20.0	15/19	≥20.0	≤5.0	2.30 ± 0.40	0.70 ± 0.30	1.22
φ 24.0	1	≥24.0	≤6.0	2.60 ± 0.40	0.75 ± 0.30	1.22
φ 32.0	1-1/4	≥32.0	≤8.0	3.00 ± 0.50	0.90 ± 0.30	1.22
φ 52.0	2	≥52.0	≤13.0	3.35 ± 0.50	0.95 ± 0.30	1.22

