

H-5R(3X) and H-5R(4X)

Dual-wall heat shrink tubing / flexible / flame retardant / 3:1/4:1 / adhesive lined

Features:

- Crosslinked co-extruded adhesive lined Polyolefin
- Shrink ratio: 3:1 and 4:1
- Operating temperature: -55 °C to +125 °C (outer wall)
- Flame retardant (except transparent version)
- Excellent sealing and insulation properties
- Halogen free according IEC 61249-2-21

Approvals:

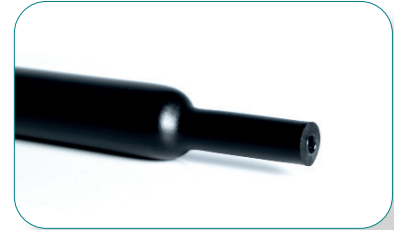
- Meets: RoHS, REACH

Application:

- Minimum shrink temperature: +70 °C
- Minimum full recovery temperature: +110 °C
- Longitudinal change: ± 10% max.

Order information:

- Standard color: black, transparent



Pre-cut lengths and mini boxes are available on request. Contact us for the possibilities.

Type / Size	As supplied: inside diameter in mm (min.)	After recovery: inside diameter in mm (max.)	After recovery: wall thickness in mm (nom.)	Reel / Meter & Standard length in mm
H-5R(3X) 3:1 3.0/1.0	3.0	1.0	0.95	150 meter
H-5R(3X) 3:1 4.8/1.5	4.8	1.5	1.10	75 meter
H-5R(3X) 3:1 6.0/2.0	6.0	2.0	1.20	75 meter
H-5R(3X) 3:1 9.0/3.0	9.0	3.0	1.30	50 meter
H-5R(3X) 3:1 12.0/4.0	12.0	4.0	1.60	30 meter
H-5R(3X) 3:1 19.0/6.0	19.0	6.0	2.00	30 meter
H-5R(3X) 3:1 24.0/8.0	24.0	8.0	2.40	30 meter
H-5R(3X) 3:1 30.0/10.0	30.0	10.0	2.4	30 meter
H-5R(3X) 3:1 40.0/13.0	40.0	13.0	2.40	30 meter
H-5R(4X) 4:1 4.0/1.0	4.0	1.0	1.00	150 meter
H-5R(4X) 4:1 6.0/1.5	6.0	1.5	1.35	75 meter
H-5R(4X) 4:1 8.0/2.0	8.0	2.0	1.20	75 meter
H-5R(4X) 4:1 12.0/3.0	12.0	3.0	1.40	50 meter
H-5R(4X) 4:1 16.0/4.0	16.0	4.0	1.70	30 meter
H-5R(4X) 4:1 24.0/6.0	24.0	6.0	2.10	30 meter
H-5R(4X) 4:1 32.0/8.0	32.0	8.0	2.40	30 meter
H-5R(4X) 4:1 52.0/13.0	52.0	13.0	2.40	30 meter

H-5R(3X) and H-5R(4X) technical requirements

Property	Unit	Test method	Required value	Test value
Shrinking properties				
Longitudinal changes	%	UL224	-10 to 0%	-3%
Eccentricity	%	UL224	≤ 35%	8%
Physical properties for jacket				
Tensile strength	MPa	ASTM D2671	Min. 10,4 MPa	16,4 MPa
Ultimate elongation	%	ASTM D2671	Min. 200%	823%
Heat aging Tensile strength Ultimate elongation	MPa %	ASTM D2671 158 °C / 168 hr.	Min. 7,3 MPa Min. 100%	14,5 MPa 650%
Heat shock 225 °C / 4 hr.		ASTM D2671	No cracking, flowing, dropping	No cracking, flowing, dropping
Cold bend test -30 °C / 1 hr.		ASTM D2671	No cracking	No cracking
Water absorption	%	ISO 62	Max. 0,5	0,2
Electrical properties for jacket				
Dielectric strength	kV / mm	ASTM D2671	Min. 15 @ 1,00 mm	25
Volume resistivity	Ω.cm	ASTM D2671	Min. 10 ¹⁴	2,00 × 10 ¹⁴
Chemical properties				
Copper corrosion		UL224	No corrosion	No corrosion
Properties of inner adhesive				
Peel strength to PE	Pli	ASTM D2671	Min. 35 lb / in	40 lb / in
Water absorption	%	ISO 62	Max. 0,5	0,25
Softening point	°C	ASTM E28	105 ± 5 °C	105 +/- 5
Copper corrosion		ASTM D2671	No corrosion	No corrosion