

HF HALOGEN FREE

(Shrink ratio 2÷1)



Halogen Free



Note: knowing the diameter of the object to be covered, the width of the flattened tubing can be calculated using the formula $1.57079 \times \text{diameter}$. Knowing the width of the tubing, the diameter of the object to be covered can be calculated using the formula $0.6366 \times \text{width of tubing}$.

BEFORE SHRINKING		AFTER FREE SHRINKING		Packaging in mt
Internal diameter in mm (D)	Wall thickness in mm (e)	Internal diameter in mm (d)	Wall thickness in mm (e)	
1.2	0.15 ± 0.05	≤ 0.65	0.28 ± 0.10	200
1.6	0.18 ± 0.05	≤ 0.85	0.32 ± 0.10	200
2.0	0.18 ± 0.05	≤ 1.00	0.35 ± 0.10	200
2.4	0.18 ± 0.05	≤ 1.30	0.38 ± 0.10	200
3.2	0.18 ± 0.05	≤ 1.50	0.40 ± 0.10	200
3.5	0.22 ± 0.05	≤ 1.80	0.42 ± 0.10	200
4.0	0.25 ± 0.05	≤ 2.00	0.45 ± 0.10	200
4.8	0.25 ± 0.05	≤ 2.50	0.55 ± 0.10	100
6.4	0.28 ± 0.05	≤ 3.00	0.55 ± 0.10	100
7.0	0.28 ± 0.05	≤ 3.50	0.55 ± 0.10	100
8.0	0.28 ± 0.05	≤ 4.00	0.60 ± 0.10	100
9.5	0.30 ± 0.08	≤ 4.50	0.60 ± 0.10	100
10.0	0.30 ± 0.08	≤ 5.00	0.60 ± 0.10	100
11.0	0.30 ± 0.08	≤ 5.50	0.60 ± 0.10	100
12.0	0.30 ± 0.08	≤ 6.00	0.60 ± 0.10	100
12.7	0.35 ± 0.10	≤ 6.50	0.65 ± 0.10	100
14.0	0.35 ± 0.10	≤ 7.00	0.65 ± 0.10	100
15.0	0.40 ± 0.12	≤ 7.50	0.70 ± 0.10	100
16.0	0.40 ± 0.12	≤ 8.00	0.70 ± 0.10	100
17.0	0.40 ± 0.12	≤ 8.50	0.70 ± 0.10	100
18.0	0.40 ± 0.15	≤ 9.00	0.80 ± 0.15	100
19.1	0.40 ± 0.15	≤ 10.00	0.80 ± 0.15	100
22.0	0.40 ± 0.15	≤ 11.00	0.80 ± 0.15	100
25.4	0.55 ± 0.15	≤ 12.50	0.90 ± 0.15	50
28.0	0.55 ± 0.15	≤ 14.00	0.90 ± 0.15	50
32.0	0.55 ± 0.15	≤ 15.00	0.95 ± 0.15	50
35.0	0.55 ± 0.15	≤ 17.50	1.00 ± 0.15	50
38.1	0.55 ± 0.15	≤ 20.00	1.00 ± 0.15	50
50.8	0.55 ± 0.15	≤ 25.00	1.00 ± 0.15	25
60.0	0.60 ± 0.15	≤ 30.00	1.30 ± 0.20	25
70.0	0.65 ± 0.15	≤ 35.00	1.30 ± 0.20	25
80.0	0.70 ± 0.15	≤ 40.00	1.46 ± 0.20	25
90.0	0.70 ± 0.15	≤ 45.00	1.46 ± 0.20	25
100.0	0.70 ± 0.20	≤ 50.00	1.46 ± 0.20	25
120.0	0.70 ± 0.20	≤ 60.00	1.56 ± 0.20	15
150.0	0.70 ± 0.20	≤ 75.00	1.56 ± 0.20	15
180.0	0.70 ± 0.30	≤ 90.00	1.56 ± 0.20	15

**HEATSHRINKABLE
SELF-EXTINGUISHING
TUBING
IN POLYOLEFIN**

**"SERIES HF
HALOGEN FREE"**

SHRINK RATIO 2÷1

General features

Series HF HALOGEN FREE polyolefin tubing is a self-extinguishing heatshrinkable tubing with excellent physical and electrical properties.

It is ideal for general protective covering, cabling and insulation and thanks to the simplicity with which it shrinks it adapts very easily to the item being covered.

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Technical features

• Shrink ratio	2 ÷ 1	
• Operating temperature	-55 °C ÷ +125 °C	
• Flammability (except transparent)		ACCORDING TO STANDARD UL 224 VW-1
• Standard colours	Black - Red - Yellow - Blue - Green Transparent	
• Packing	On reels	
• Minimum shrinking temperature	> +70 °C	
• Dielectric strength	≥ 15 KV/mm	ACCORDING TO STANDARD IEC 243
• Tensile strength	10 MPA	ACCORDING TO STANDARD ASTM D2671
• Tensile strength after aging (7 days at 158 °C)	≥ 7 MPA	ACCORDING TO STANDARD UL224
• Elongation after aging (7 days at 158 °C)	≥ 100%	ACCORDING TO STANDARD UL224
• Heat shock (4 hours at 250 °C)	No dripping, slipping or cracking	ACCORDING TO STANDARD UL224
• Volume resistivity	≥ 10 ¹⁴ ohm/cm	ACCORDING TO STANDARD IEC 93
• Dielectric withstand	No breakdown	ACCORDING TO STANDARD UL224 600V
• Corrosion of bare copper (7 days at 158 °C)	Passed	ACCORDING TO STANDARD UL224
• Copper stability (7 days at 158 °C)	Passed	ACCORDING TO STANDARD UL224
• Halogen Free	Passed	ACCORDING TO STANDARD UNI EN 14582:2007
• Directive	2002/95/CE/RoHS	
• Longitudinal shrink ratio	± 8%	ACCORDING TO STANDARD UL224
• Information regarding application	See chapter "Choice of heatshrinkable tubing and information regarding its application"	

**COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =**

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