

## Q2-HF



**LOW SMOKE, HALOGEN FREE,  
FLAME RETARDANT, HEAT SHRINKABLE TUBING  
SHRINK RATIO 2:1**

### Features/Applications

As a kind of totally environmental friendly heat-shrinkable tube, it is made with specially designed halogen free polyolefin. It produces neither toxic smoke or harmful substance when burning, which meets the growing demand of environmental protection all over the world. In addition to the common fine physical and chemical specifications the tube also shows excellent flame-retardant, insulation, low temperature shrinking and flexible properties and thus is widely used in electronics, communication and the auto industry.

- Operating temperature: -55°C to +105°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: 100°C
- Approvals: File No. 242540
- Standard colors: Black, white
- Other colors are available upon request.
- RoHS Compliant



### Technical Data

Property	Test Method	Typical Data
Operating Temperature	IEC 216	-55°C to +105°C
Tensile Strength	ASTM D 2671	>12 MPa
Ultimate Elongation	ASTM D 2671	> 400%
Longitudinal Shrinkage	UL 224	0 ± 5%
Eccentricity	ASTM D 2671	≤ 30%
Heat Aging Tensile Strength Ultimate Elongation	158°C, 168 hrs.	> 11 MPa > 200 %
Flammability	VW-1	Self extinguish in 30 sec.
Dielectric Strength	ASTM D 150	> 20kV / mm
Voltage Withstand	ASTM D 2671 / AC2500V. 1 min.	No Breakdown
Volume Resistance	ASTM D 2671	10 <sup>14</sup> Ω.cm
Copper Stability	UL 224	Pass
Copper Corrosion	UL 224	No Corrosion

### Product Dimensions

Size (mm)	As Supplied (mm)	After Recovered (mm)		Standard Spool *(SS) (Meter)
	Inside Diameter (min.)	Inside Diameter (max.)	Wall Thickness (min.)	
1.0	1.0	0.50	.33	200
1.5	1.5	0.75	.36	200
2.0	2.0	1.00	.44	200
2.5	2.5	1.25	.44	200
3.0	3.0	1.50	.44	200
3.5	3.5	1.75	.44	200
4.0	4.0	2.00	.44	200
5.0	5.0	2.50	.56	100
6.0	6.0	3.00	.56	100
7.0	7.0	3.50	.56	100
8.0	8.0	4.00	.56	100
9.0	9.0	4.50	.56	100
10.0	10.0	5.00	.56	100
11.0	11.0	5.50	.56	100
12.0	12.0	6.00	.56	50
13.0	13.0	6.50	.65	50
14.0	14.0	7.00	.69	50

### Product Dimensions

Size (mm)	As Supplied (mm)	After Recovered (mm)		Standard Spool *(SS) (Meter)
	Inside Diameter (min.)	Inside Diameter (max.)	Wall Thickness (min.)	
15.0	15.0	7.50	0.69	50
16.0	16.0	8.00	0.69	50
18.0	18.0	9.00	0.80	50
20.0	20.0	10.00	0.80	50
22.0	22.0	11.00	0.80	50
25.0	25.0	12.50	0.90	50
28.0	28.0	14.00	0.90	50
30.0	30.0	15.00	0.90	50
35.0	35.0	17.50	0.90	50
40.0	40.0	20.00	1.00	50
50.0	50.0	25.00	1.00	50
60.0	60.0	30.00	1.00	30
70.0	70.0	35.00	1.20	30
80.0	80.0	40.00	1.20	30
100.0	100.0	50.00	1.30	30
125.0	125.0	60.00	1.30	15
150.0	150.0	75.00	1.30	15

Notes:

- \* See page 13 - Part Number Guide for standard packaging codes.
- Cross Reference Guide located on page 3.
- Special sizes, packaging, colors and cut pieces are available upon request.