

Hongshang

Let's connect the World



HEAT SHRINK PRODUCTS

Electronics, communication, automotive and identification

 **NORTELCO**

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SINCE 1994
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Kynar® is a registered trade mark of Dupont.

Viton® is a trademark of Dupont Dow Elastomers.



Company Profile



Hongshang, established in 1994, with over 80000 square meter-gross building area, is one of the high-tech enterprise in China that can provide a full range of business solutions from design, development, production and service for the field of Energy, Electronic, Automotive, Communication, Building & Shipbuilding, and other industries.

The products provided by Hongshang have covered the whole services of heat shrinkable tubing, heat shrinkable cable accessories, cold shrinkable cable accessories, pre-molded cable accessories, cast resin cable accessories, etc. Hongshang has a complete quality guarantee system which has been certificated by ISO 9001:2000. Most of our products comply with EU ROHS environmental standards and passed international technical standard type tests, such as UL, CAS , IEC, IEEE, and GENELEC.

Hongshang entered the global market in the 1990s and established close business relationship with many global front-line enterprise. Our products are exported to more than 60 counties and regions. Hongshang stands more than a brand of high quality and excellent services in various industries.

Our technology

◎ Compounding

With strong background of research and development radiation in modified polymer materials, we are producing and developing varieties of chemical formulations for different heat shrinkable products. Advanced mixing facilities ensure the fine dispersion of components in each formulation and the homogeneously physical, electrical and chemical properties in final products.

◎ Radiation Crosslinking

4 sets of powerful electronic accelerator were installed in our company. The specially designed advanced under beam facilities can be easily adjusted to meet the requirements of different size and shaped products and ensure the homogeneous crosslinking of products. To meet the increasing demand of our business, the more powerful 5.0Mev electronic accelerator have been put into operation.

◎ R&D Center

In accordance with the requirement of UL 224, RoHs, REACH compliance, and IEC, we equipped more than 30 sets of instruments and facilities for R&D purpose by which we can test mechanical, thermal, electrical, chemical, flammable and fluid resistant performances of polymeric products. To meet the special requirement of power cable accessories products we also set up a high voltage laboratory to test the high voltage performance of power cable kits.

◎ Extrusion

To obtain the products with stable and homogeneous dimensions, we equipped with 40 advanced extrusion line in which many key parts were improved by technology from foreign countries. The co-extrusion technology makes it possible for us to manufacture polyolefin/hot melt adhesive dual wall and insulation/conductive multi-layers tubing.

◎ Expansion

Expansion is a very important and key process to obtain the final forms and dimensions of heat shrinkable products. With the equipments and technology from Europe, we can accurately control the dimensions, longitudinal changes and eccentricity of the final products.





H-2(Z) Thin Wall Tubing

Flexible flame retardant tubing

■ **Shelf life & storage:**

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ **Ordering information:**

Standard colors:
Black, Yellow, White, Red, Blue, Green.

Special colors:
Special colors are available on request.

■ **Applications:**

Free from environment harmful substance as PBB's, PBBO's, PBBE's and toxic heavy metal compounds in its components, makes it meet the requirement of environment protection. The properties of low shrinking temperature, flexibility and superior mechanical strength make them widely used in the field of electronics, communication, automobile, etc.

■ **Features:**

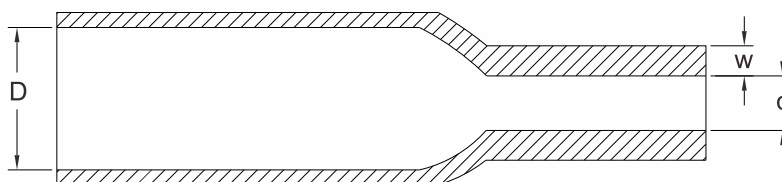
Operating temp.: -55°C to 125°C	Voltage rating: 600V
UV resistant(black)	Flame retardant VW-1
RoHS compliant	Shrink ratio 2:1
Min. full recovery temp.: 110°C	Approvals: UL 224 E204071
Flexible	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength after Aging at 158°C for 168hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 158°C for 168hrs	UL 224	100% minimum
Heat shock at 250°C for 4hrs	UL 224	No dropping & cracking
Flammability	UL 224	VW-1
Volume resistance	UL 224	10 ¹⁴ Ω.cm minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
3/64	1.2	0.6	0.33
1/16	1.6	0.8	0.36
3/32	2.4	1.2	0.42
1/8	3.2	1.6	0.42
3/16	4.8	2.4	0.52
1/4	6.4	3.2	0.54
5/16	8.0	4.0	0.54
3/8	9.5	4.8	0.54
1/2	12.7	6.4	0.62
5/8	16.0	8.0	0.67
3/4	19.0	9.5	0.75
1	25.4	12.7	0.85
1 1/4	31.8	15.9	0.85
1 1/2	38.1	19.1	0.96
2	50.8	25.4	0.97
3	76.2	38.1	1.17
4	101.6	50.8	1.30
5	127.0	63.5	1.30
6	152.4	76.2	1.30

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products

H-2(3X) Thin Wall Tubing

Flexible flame retardant tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:

Black.

Special colors:

Special colors are available on request.

■ Applications:

Widely used for electrical insulation and protects in-line components, disconnect terminals, and splices with its high insulation and excellent resilience. Bundles wires for very flexible light-duty harnesses. Identifies or color-codes to wires, cables, terminals and components.

■ Features:

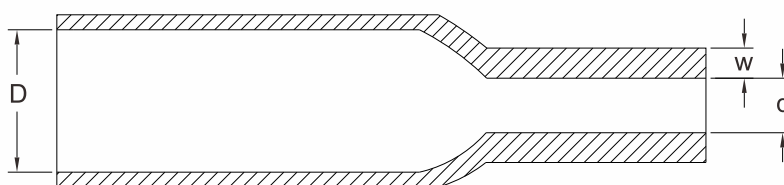
Operating temp.: -55°C to 125°C	UV resistant(black)
RoHS compliant	Flame retardant VW-1
Min. full recovery temp.: 110°C	Shrink ratio: 3:1
High flexibility	Approvals: UL 224 E204071



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength after Aging at 158°C for 168hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 158°C for 168hrs	UL 224	100% minimum
Heat shock at 250°C for 4hrs	UL 224	No dropping & cracking
Flammability	UL 224	VW-1
Volume resistance	UL 224	10^{14} Ω.cm minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
1/16	1.6	0.5	0.45
1/8	3.2	1.1	0.50
3/16	4.8	1.6	0.60
1/4	6.4	2.1	0.65
3/8	9.5	3.2	0.75
1/2	12.7	4.2	0.80
3/4	19.1	6.4	0.90
1	25.4	8.5	1.00
1 1/2	39.0	13.0	1.20

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



H-2F Thin Wall Tubing

Flexible highly flame retardant tubing

■ **Shelf life & storage:**

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ **Ordering information:**

Standard colors:

Black.

Special colors:

Special colors are available on request.

■ **Applications:**

Provide both commercial and military applications, electrically insulation and protects in line components, disconnect terminations and splices with its high strength and excellent resilience, bundle wires for very flexible light duty harnesses. Identifies or color codes, terminals and components.

■ **Features:**

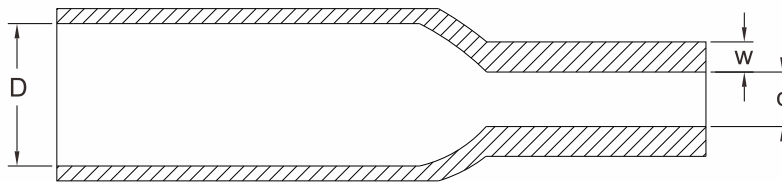
Operating temp.: -55°C to 135°C	Voltage rating: 600V
UV resistant(black)	Flame retardant VW-1 (except clear)
Flexible	Shrink ratio 2:1
Min. full recovery temp.: 105°C	Approvals: UL 224 E204071
SAE-AMS-DTL 23053/5 Class1(colors); Class 2(clear)	RoHS compliant



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength after Aging at 175°C for 168hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 175°C for 168hrs	UL 224	100% minimum
Heat shock at 250°C for 4hrs	UL 224	No dropping & cracking
Flammability	UL 224	VW-1(except for clear)
Volume resistance	UL 224	$10^{14} \Omega \cdot \text{cm}$ minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
3/64	1.2	0.6	0.38
1/16	1.6	0.8	0.40
3/32	2.4	1.2	0.48
1/8	3.2	1.6	0.48
3/16	4.8	2.4	0.48
1/4	6.4	3.2	0.56
5/16	8.0	4.0	0.62
3/8	9.5	4.8	0.62
1/2	12.7	6.4	0.62
5/8	15.9	8.0	0.68
3/4	19.1	9.5	0.69
1	25.4	12.7	0.89
1 1/4	31.8	15.9	1.00
1 1/2	38.1	19.1	1.00
2	50.8	25.4	1.10
3	76.2	38.1	1.20
4	101.6	50.8	1.35
5	127.0	63.5	1.40
6	151.0	75.0	1.40

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

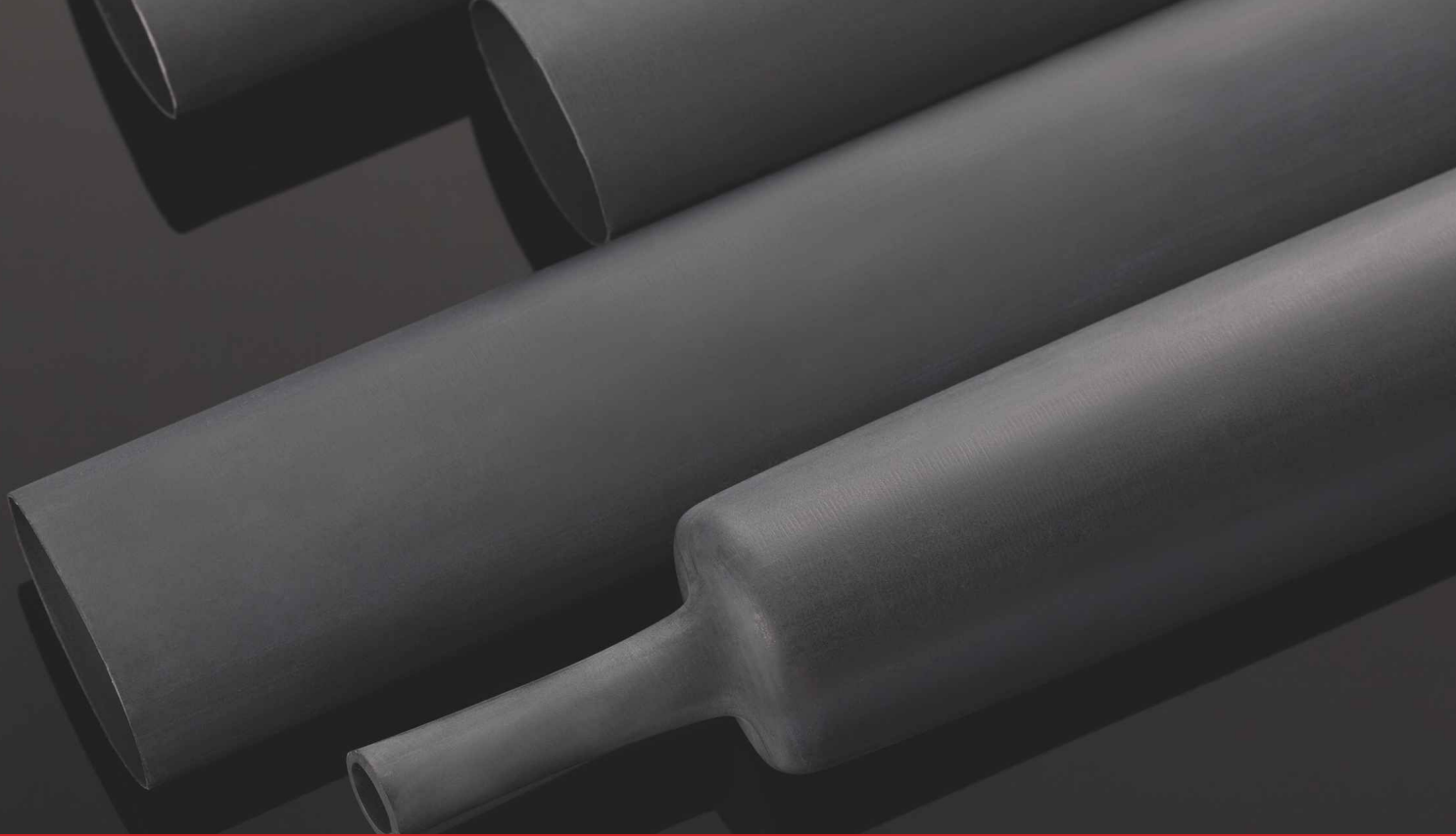
H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



H-2F(3X/4X) Thin Wall Tubing

Flexible highly flame retardant tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:

Black.

Special colors:

Special colors are available on request.

■ Applications:

H-2F(3X) is widely used for electrical insulation, bundling and marking to prevent corrosion and provided mechanical protection. 3:1 shrink ratio more suitable for application to irregular, awkward shapes. H-2F(4X) is widely used in some important fields such as military, aerospace and fine electronic instruments for insulating or repairing harness, cables and connectors.

■ Features:

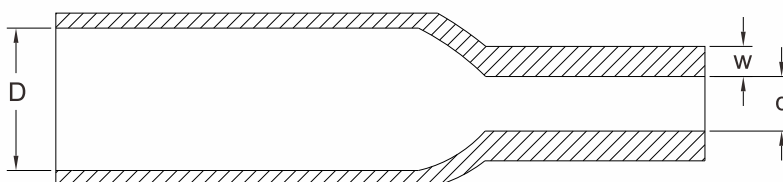
Operating temp.: -55°C to 135°C	Voltage rating: 600V
UV resistant(black)	Flame retardant VW-1
Flexible	Shrink ratio 3:1; 4:1
Min. full recovery temp.: 105°C	Approvals: UL 224 E204071
SAE-AMS-DTL 23053/5 Class1(colors); Class 2(clear)	RoHS compliant



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength after Aging at 175°C for 168 hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 175°C for 168hrs	UL 224	100% minimum
Heat shock at 250°C for 4hrs	UL 224	No dropping & cracking
Flammability	UL 224	VW-1
Volume resistance	UL 224	10 ¹⁴ Ω.cm minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



Size (Inch)	As supplied (mm)		After recovered (mm)	
	D*(Min.)		d*(Max.)	w*(Min.)
H-2F(3X)				
1/16	1.6		0.5	0.45
1/8	3.2		1.1	0.50
3/16	4.8		1.6	0.60
1/4	6.4		2.1	0.65
3/8	9.5		3.2	0.75
1/2	12.7		4.2	0.80
3/4	19.1		6.4	0.90
1	25.4		8.5	1.20
1 1/2	39.0		13.0	1.25
H-2F(4X)				
3/4	19.1		4.8	1.80
1	25.4		7.0	1.80
1 1/2	38.1		9.5	1.80
2	50.8		14.0	1.80
3	76.2		21.3	1.80
4	101.6		26.7	1.90
4 1/2	114.3		36.8	1.90

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



H-2F(YG)(2X/3X) Thin Wall Tubing

Yellow/Green dual color flexible flame retardant tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:

Yellow and Green striped.

■ Applications:

Outstanding physical, chemical and electrical properties make it easily to install and identify to ground conductors. Free from environment harmful substance as PBB's, PBBO's, PBBE's and toxic heavy metal compounds in its components. 3:1 shrink ratio more suitable for application to irregular shapes.

■ Features:

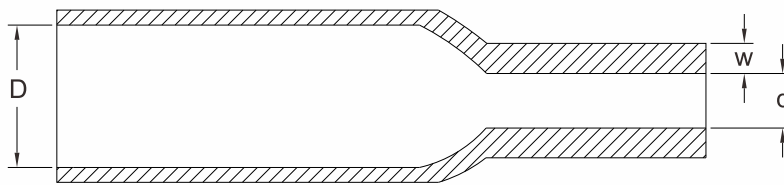
Operating temp.: -55°C to 135°C	Voltage rating: 600V
Flame retardant VW-1	Flexible
Shrink ratio 2:1, 3:1	Min. full recovery temp.: 105°C
Approvals: UL 224 E204071	SAE-AMS-DTL 23053/5 Class1 Compliant
RoHS compliant	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength after Aging at 175°C for 168hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 175°C for 168hrs	UL 224	100% minimum
Heat shock at 250°C for 4hrs	UL 224	No dropping & cracking
Flammability	UL 224	VW-1
Volume resistance	UL 224	10 ¹⁴ Ω.cm minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
H-2F(YG)			
3/32	2.4	1.2	0.42
1/8	3.2	1.6	0.42
3/16	4.8	2.4	0.52
1/4	6.4	3.2	0.54
3/8	9.5	4.8	0.54
1/2	12.7	6.4	0.62
3/4	19.1	9.5	0.75
1	25.4	12.7	0.85
1 1/4	31.8	15.9	0.85
1 1/2	38.1	19.1	0.96
2	50.8	25.4	0.97
3	76.2	38.1	1.17
4	101.6	50.8	1.30
H-2F(YG) (3X)			
3/32	2.4	0.8	0.50
1/8	3.2	1.1	0.53
3/16	4.8	1.6	0.60
1/4	6.4	2.1	0.65
3/8	9.5	3.2	0.75
1/2	12.7	4.2	0.80
3/4	19.1	6.4	0.90
1	25.4	8.5	1.00
1 1/2	39.0	13.0	1.20

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



H-2HF Thin Wall Tubing

Halogen free flexible flame retardant tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:

Black.

Special colors:

Special colors are available on request.

■ Applications:

Except the common fine physical and chemical specifications, the tube also shows excellent flame-retardant, insulation, low temperature shrinking and flexible properties and thus be widely used in electron, communication and automobile industry.

■ Features:

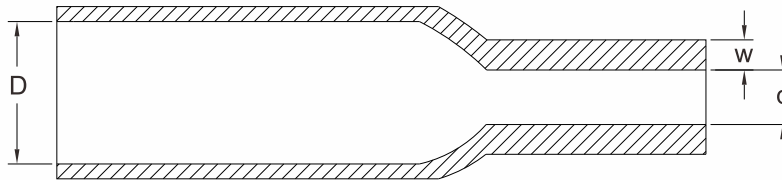
Operating temp.: -55°C to 125°C	Voltage rating: 600V
UV resistant	Flame retardant VW-1
Halogen free	Shrink ratio 2:1
Min. full recovery temp.: 100°C	Approvals: UL 224 E204071(Black)
RoHS compliant	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength after Aging at 158°C for 168hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 158°C for 168hrs	UL 224	100% minimum
Heat shock at 250°C for 4hrs	UL 224	No dropping & cracking
Flammability	UL 224	VW-1
Volume resistance	UL 224	10 ¹⁴ Ω.cm minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
3/64	1.2	0.6	0.33
1/16	1.6	0.8	0.36
3/32	2.4	1.2	0.42
1/8	3.2	1.6	0.42
3/16	4.8	2.4	0.51
1/4	6.4	3.2	0.54
5/16	8.0	4.0	0.54
3/8	9.5	4.8	0.54
1/2	12.7	6.4	0.62
3/4	19.1	9.5	0.75
1	25.4	12.7	0.85
1 1/4	31.8	15.9	0.85
1 1/2	38.1	19.1	0.96
2	50.8	25.4	0.97
3	76.2	38.1	1.17
4	101.6	50.8	1.30

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

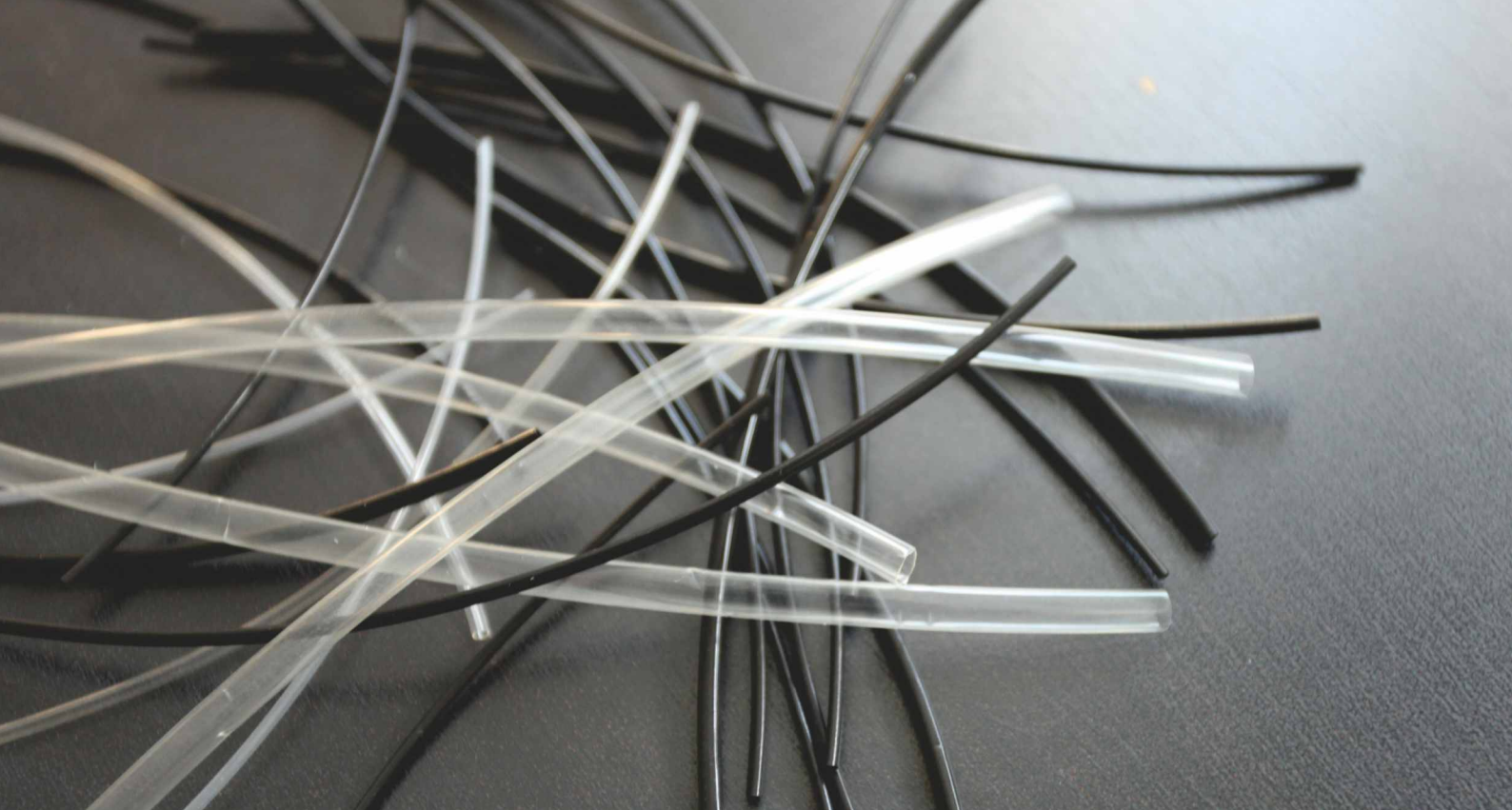
H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



H-1 Thin Wall Tubing

General purpose, non flame retardant tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:

Black, Clear

Special colors:

Special colors are available on request.

■ Applications:

The bright shiny surface is an attractive covering for many automotive, appliance, and consumer-goods applications. Clear version offers exceptional clarity for protection marked surfaces.

■ Features:

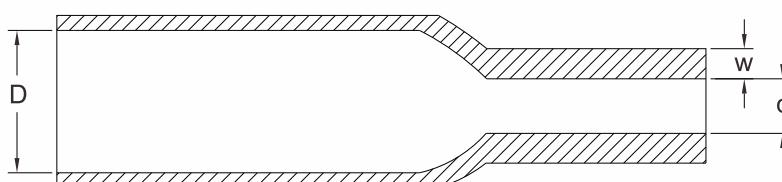
Operating temp.: -55°C to 105°C	Voltage rating: 600V
Bright shiny color	Non flame retardant
Shrink ratio 2:1	Min. full recovery temp.: 105°C
RoHS complian	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength after Aging at 136°C for 168hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 136°C for 168hrs	UL 224	100% minimum
Heat shock at 250°C for 4hrs	UL 224	No dropping & cracking
Volume resistance	UL 224	10^{14} Ω.cm minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
3/64	1.2	0.6	0.33
1/16	1.6	0.8	0.36
3/32	2.4	1.2	0.42
1/8	3.2	1.6	0.42
3/16	4.8	2.4	0.52
1/4	6.4	3.2	0.54
3/8	9.5	4.8	0.54
1/2	12.7	6.4	0.62
5/8	15.9	7.9	0.67
3/4	19.1	9.5	0.75
1	25.4	12.7	0.85
1 1/4	31.8	15.9	0.85
1 1/2	38.1	19.1	0.96
2	50.8	25.4	0.97

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



HBG Thin Wall Tubing

Flexible tubing for application in flexible gas pipe

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Yellow.

■ Applications:

Specially designed formulations make the tubing to have outstanding physical, chemical and electrical properties. Very suitable for application of protecting flexible gas pipes.

■ Features:

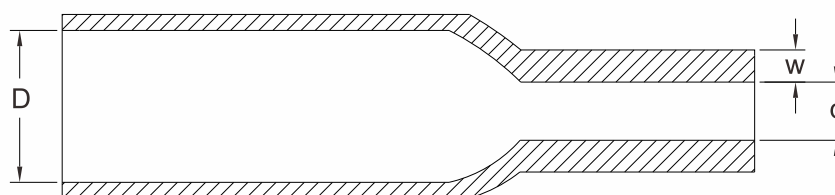
Operating temp.: -55°C to 105°C	Voltage rating: 600V
Flexible	Shrink ratio 2:1
Min. full recovery temp.: 110°C	RoHS compliant



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength after Aging at 136°C for 168hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 136°C for 168hrs	UL 224	100% minimum
Volume resistance	UL 224	10 ¹⁴ Ω.cm minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



Size (mm)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
12.7	12.7	6.6	0.62
23.0	23.0	10.3	0.65
27.5	27.5	13.6	0.70
29.0	29.0	13.6	0.70
31.8	31.8	16.0	0.80
33.5	33.5	17.3	0.80
37.5	37.5	18.5	0.80
40.5	40.5	20.0	0.80
50.8	50.8	25.6	0.80
65.0	65.0	33.0	1.20

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



H-5(3X/4X) Dual Wall Tubing

Adhesive lined flexible flame retardant tubing

■ **Shelf life & storage:**

Heat Shrink Product provided by Hongshang has a over 5 year’s shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ **Ordering information:**

Standard colors:

Black.

Special colors:

Special colors are available on request.

■ **Applications:**

Manufactured by co-extrusion of polyolefin and hot melt adhesive. Designed to provide both insulation and sealing. Used to protect auto wires, shipping cable, bundle wires and metal tubes against water and moisture.

■ **Features:**

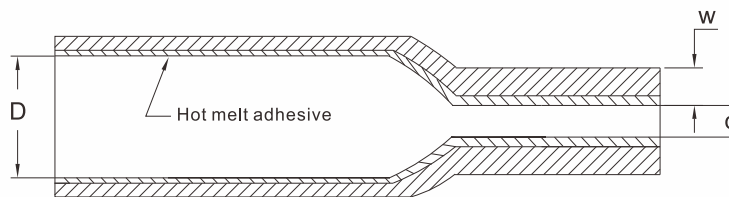
Operating temp.: -55°C to 125°C	Voltage rating: 600V
UV resistant(black)	Flame retardant VW-1(except clear)
Flexible	Shrink ratio 3:1; 4:1
Min. full recovery temp.: 110°C	Approvals: UL 224 E204071
SAE-AMS-DTL 23053/4 compliant	RoHS compliant



■ Typical technical performances(for jacket layer):

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength Aging at 158°C for 168hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 158°C for 168hrs	UL 224	100% minimum
Heat shock at 250°C for 4hrs	UL 224	No dropping & cracking of out jacket
Flammability	UL 224	VW-1(except for clear)
Volume resistance	UL 224	$10^{14} \Omega \cdot \text{cm}$ minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



H-5(3X) Adhesive-lined tubing, shrink ratio 3:1				
Size (Inch)	As supplied (mm)	After recovered (mm)		
	D*(Min.)	d*(Max.)	w*(Min.)	A*(nom.)
1/8	3.0	1.0	0.95	0.35
3/16	4.8	1.6	1.10	0.40
1/4	6.0	2.0	1.20	0.40
3/8	9.0	3.0	1.30	0.50
1/2	12.0	4.0	1.60	0.70
3/4	19.0	6.4	2.00	0.70
1	24.0	8.0	2.40	1.10
1 1/4	30.0	10.0	2.40	1.10
1 1/2	40.0	13.3	2.40	1.10
2	50.0	19.0	2.40	1.10

H-5(4X) Adhesive-lined tubing, shrink ratio 4:1				
Size (Inch)	As supplied (mm)	After recovered (mm)		
	D*(Min.)	d*(Max.)	w*(Min.)	A*(nom.)
3/16	4	1.00	1.15	0.50
1/4	6	1.50	1.35	0.65
5/16	8	2.00	1.65	0.80
1/2	12	3.00	2.00	1.00
5/8	16	4.00	2.00	1.00
3/4	18	4.45	2.30	1.10
1	24	6.00	2.50	1.10
1 1/4	32	8.00	2.85	1.20
2	52	13.00	2.90	1.20

D* = Inner diameter as supplied

A* = Adhesive thickness after fully recovered

d* = Inner diameter after fully recovered

w* = Total wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

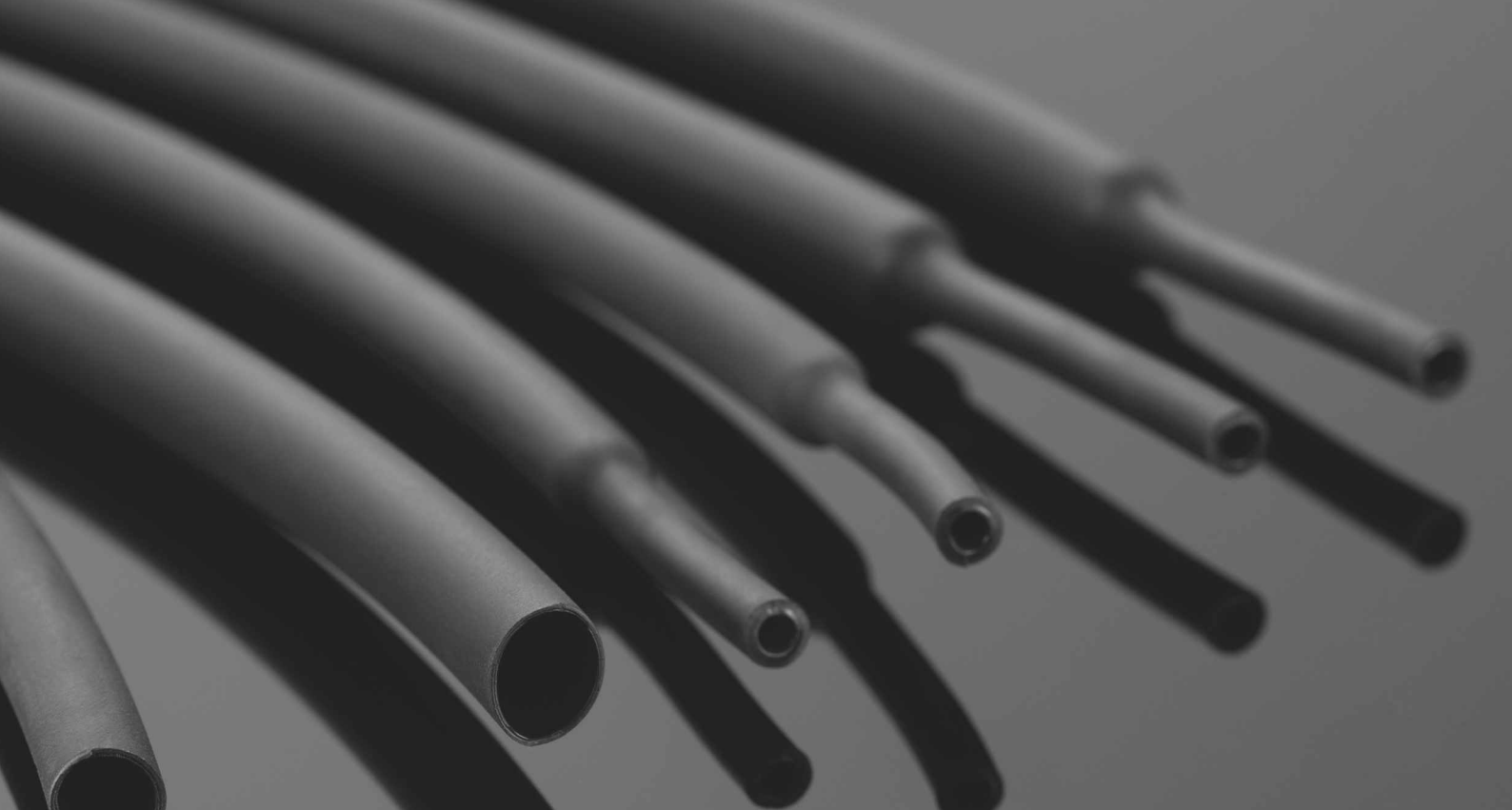
H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



H-5(3X/4X)-F Dual Wall Tubing

Adhesive lined flexible flame retardant tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Black.

■ Applications:

Designed to provide both insulation and sealing for protected articles. Typical application are environment sealing of electrical components such as wire splices and harness in automobile and communication industry.

■ Features:

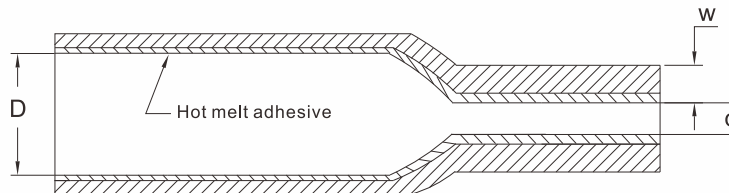
Operating temp.: -55°C to 125°C	Voltage rating: 600V
UV resistant(black)	Flame retardant VW-1(except clear)
Flexible	Shrink ratio 3:1; 4:1
Min. full recovery temp.: 110°C	Approvals: UL 224 E204071
SAE-AMS-DTL 23053/4 compliant	RoHS compliant



■ Typical technical performances(for jacket layer):

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength Aging at 158°C for 168hrs	UL 224	70% retention minimum
Ultimate elongation after Aging at 158°C for 168hrs	UL 224	100% minimum
Heat shock at 250°C for 4hrs	UL 224	No dropping & cracking of out jacket
Flammability	UL 224	VW-1(except for clear)
Volume resistance	UL 224	$10^{14} \Omega \cdot \text{cm}$ minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking

■ Dimensions:



H-5(3X)-F Adhesive-lined tubing, shrink ratio 3:1				
Size (Inch)	As supplied (mm)	After recovered (mm)		
	D*(Min.)	d*(Max.)	w*(Min.)	A*(nom.)
1/8	3.0	1.0	1.00	0.40
3/16	4.8	1.6	1.00	0.40
1/4	6.0	2.0	1.00	0.40
3/8	9.0	3.0	1.35	0.55
1/2	12.0	4.0	1.65	0.70
3/4	19.0	6.4	2.10	0.70
1	24.0	8.0	2.35	0.95
1 1/2	40.0	13.0	2.40	0.95

H-5(4X)-F Adhesive-lined tubing, shrink ratio 4:1				
Size (Inch)	As supplied (mm)	After recovered (mm)		
	D*(Min.)	d*(Max.)	w*(Min.)	A*(nom.)
3/16	4.0	1.0	1.00	0.45
1/4	6.0	1.5	1.00	0.45
5/16	8.0	2.0	1.00	0.45
1/2	12.0	3.0	1.35	0.55
5/8	16.0	4.0	1.65	0.70
1	24.0	6.0	2.10	0.70
1 1/4	32.0	8.0	2.35	0.95
1 1/2	38.1	9.5	2.35	0.95
2	52.0	13.0	2.40	0.95

D* = Inner diameter as supplied
A* = Adhesive thickness after fully recovered

d* = Inner diameter after fully recovered
w* = Total wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



HBK Dual Wall Tubing

Adhesive lined semi-rigid flame retardant tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Black, Clear.

■ Applications:

Specially designed to protect splices and joint of wire harness, and components against environment damage. 4:1 shrink ratio make it easily to fit a wide range of component, and thicker adhesive coated layer forms an effective barrier against fluids and moisture.

■ Features:

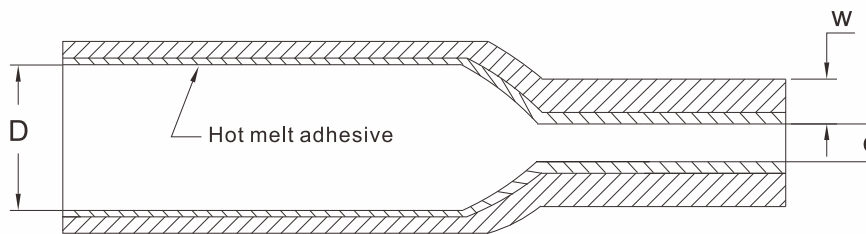
Operating temp.: -40°C to 125°C	Voltage rating: 600V
UV resistant(black)	Flame retardant(for black)
Semi-rigid	Shrink ratio 4:1
Min. full recovery temp.: 135°C	RoHS compliant



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10,4MPa minimum
Ultimate elongation	ASTM D 2671	250% minimum
Secant modulus	ASTM D 2671	137MPa minimum
Heat shock at 225°C for 4hrs	UL 224	No dropping & cracking of out jacket
Flammability	ASTM D 2671 Proc B	Self-extinguishing within 30 seconds (except for clear)
Volume resistance	ASTM D 2671	10 ¹² Ω.cm minimum
Heat aging	-	No cracking of jacket after 125°C/3000hrs
Cold bend at -40°C for 4hrs	ASTM D 2671	No cracking

■ Dimensions:



Size (mm)	As supplied (mm)	After recovered (mm)		
	D*(Min.)	d*(Max.)	w*(nom.)	A*(nom.)
HBK-1	6	1.27	1.30	0.50
HBK-2	8	1.65	1.50	0.65
HBK-3	12	2.41	1.90	1.05
HBK-4	18	4.45	2.40	1.35

D* = Inner diameter as supplied
A* = Adhesive thickness after fully recovered

d* = Inner diameter after fully recovered
w* = Total wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



HBK-CAP Dual Wall Tubing

Adhesive lined semi-rigid flame retardant sealing caps

■ **Shelf life & storage:**

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ **Ordering information:**

Standard colors:
Clear, Black,

■ **Applications:**

HBK Caps are specifically designed to provide mechanical and environmental protection of stub splices in electrical harnesses. The radiation-crosslinked polyolefin outer jacket is mechanically tough, providing abrasion protection. The cap's inner layer is a unique hot-melt adhesive, forms an effective barrier against fluids and moisture, helping protect the harness from the effects of corrosion and water wicking.

■ **Features:**

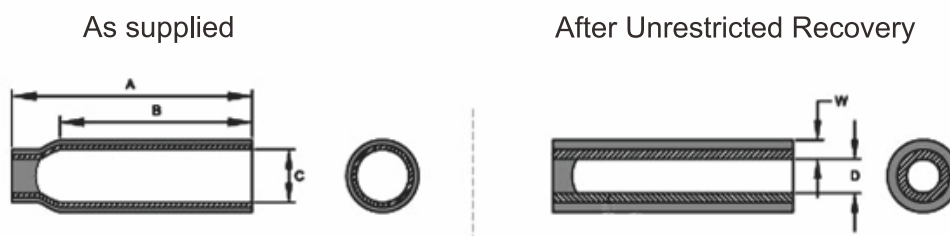
Shrink ratio: 4:1	Operating temp.: -40°C to 105°C
Min. full recovery temp.: 135°C	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Tensile strength after aging	ASTM D 2671/158°C, 168hrs.	Remains 70%
Elongation at break	ASTM D 2671	200% minimum
Elongation at break after aging	ASTM D 2671/158°C, 168hrs.	100% minimum
Heat shock	225°C/4hrs	No cracking, no dripping of outer jacket
Cold bend (-30°C/1hrs)	ASTM D 2671	No cracking
Volume resistivity	ASTM D 2671	10 ¹⁴ Ω.cm minimum
Flammability (Black only)	ASTM D 2671 Proc B	Self-extinguish in 30sec.

■ Dimensions:



Part Number	As supplied (mm)			After recovered (mm)		
	A ±10%	B ±10%	C ±10%	D Max.	W Min	Adhesive Wall (mm)
HBK Cap-No.1	30, 35, 40, 50	25, 30, 35, 45	6	1.27	1.30	0.50
HBK Cap-No.2	30, 35, 40, 50	25, 30, 35, 45	8	1.65	1.50	0.65
HBK Cap-No.3	40, 50	35, 45	12	2.41	1.90	1.05

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

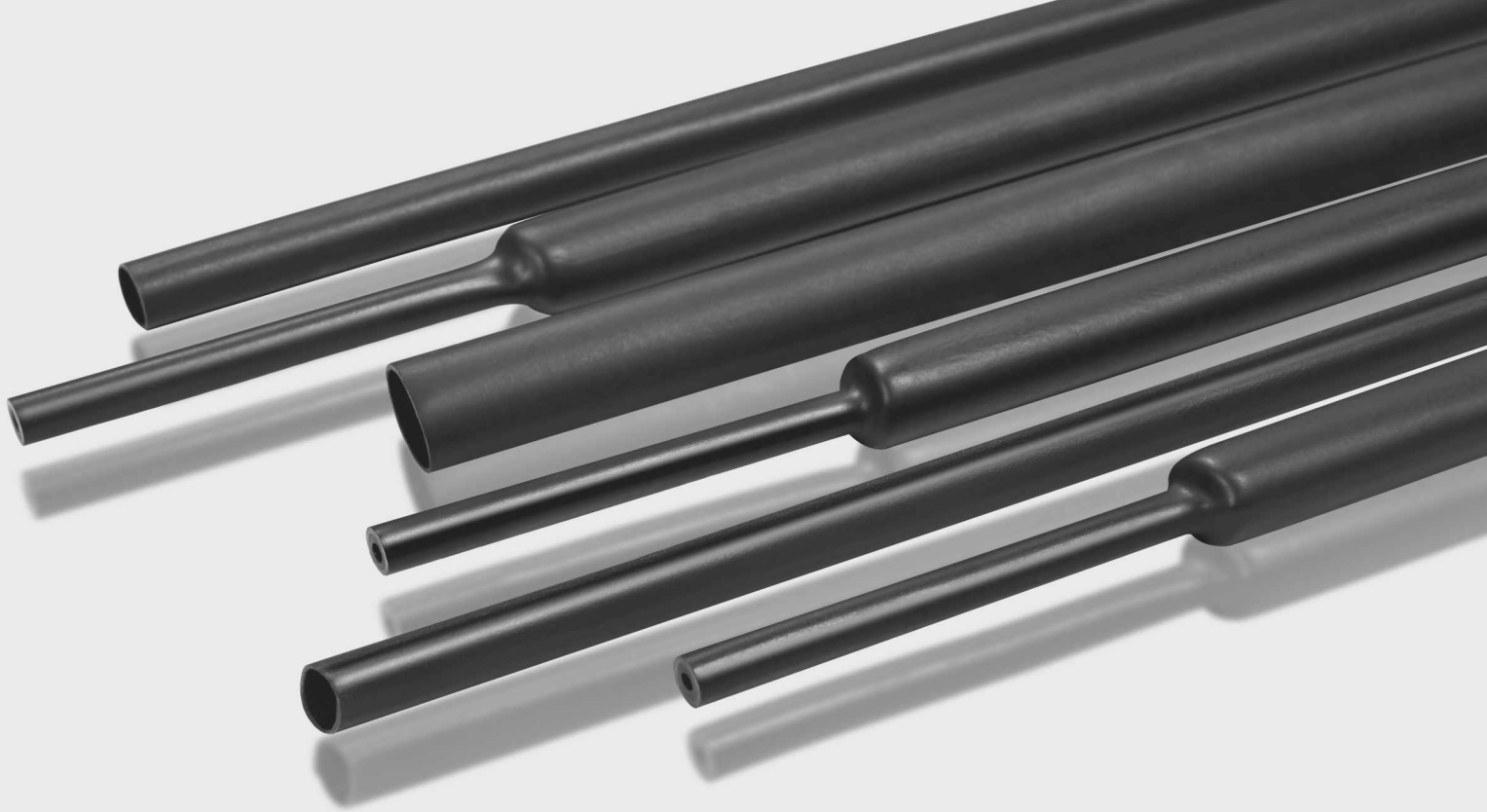
H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



HS-3000/HS-4000 Dual Wall Tubing

Adhesive lined semi-rigid flame retardant tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
 HS-3000: Clear.
 HS-4000: Black.

■ Applications:

Specially designed to protect splices and joint of wire harness, and components against environment damage. 4: 1 shrink ratio make it easily to fit a wide range of component, and thicker adhesive coated layer forms an effective barrier against fluids and moisture.

■ Features:

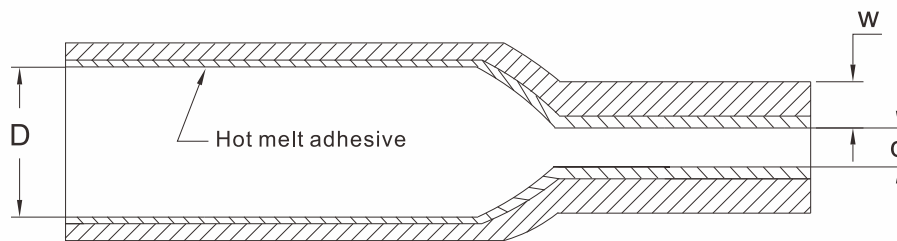
Operating temp.: -40°C to 130°C	Voltage rating: 600V
UV resistant(black)	Flame retardant(for black)
Semi-rigid	Shrink ratio 4:1
Min. full recovery temp.: 135°C	RoHS compliant



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	10.4MPa minimum
Ultimate elongation	ASTM D 2671	250% minimum
Secant modulus	ASTM D 2671	137MPa minimum
Heat shock at 225°C for 4hrs	ASTM D 2671	No dropping & cracking of out jacket
Flammability	ASTM D 2671 Proc B	Self-extinguishing within 30 sec.
Volume resistance	ASTM D 2671	10 ¹² Ω.cm minimum
Heat aging	-	No cracking of jacket after 130°C/3000hrs
Cold bend at -30°C for 4hrs	ASTM D 2671	No cracking

■ Dimensions:



Part (Number)	As supplied (mm)	After recovered (mm)		
	D*(Min.)	d*(Max.)	w*(Min.)	A*(Min)
HS-3000-1	5.72	1.27	1.20	0.56
HS-3000-2	7.44	1.65	1.52	0.76
HS-3000-3	10.85	2.41	1.91	1.02
HS-3000-4	17.78	4.45	2.41	1.37
HS-4000-1	5.72	1.27	1.20	0.56
HS-4000-2	7.44	1.65	1.52	0.76
HS-4000-3	10.85	2.41	1.91	1.02
HS-4000-4	17.78	4.45	2.41	1.37

D* = Inner diameter as supplied
 d* = Inner diameter after fully recovered
 w* = Total wall thickness after fully recovered
 A* = Adhesive thickness after fully recovered

H-2(Z) Thin Wall Tubing
H-2(3X) Thin Wall Tubing
H-2F Thin Wall Tubing
H-2F(3X/4X) Thin Wall Tubing
H-2F(YG)(2X/3X) Thin Wall Tubing
H-2HF Thin Wall Tubing
H-1 Thin Wall Tubing
HBG Thin Wall Tubing
H-5(3X/4X) Dual Wall Tubing
H-5(3X/4X)-F Dual Wall Tubing
HBK Dual Wall Tubing
HBK-CAP Dual Wall Tubing
HS-3000 /HS-4000 Dual Wall Tubing
H-5(2000) Dual Wall Tubing
H-150K Special Products
H-175K Special Products
HDR Special Products
H-200E Special Products
HTFE Special Products
HFSP Special Product
HBCS Special Products
MINI-BOX Special Products



H-5(2000) Dual Wall Tubing

Adhesive lined semi-rigid tubing for pipe protection

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Black.

■ Applications:

Specially designed for protection of automotive metal pipes and fuel lines against environment damages. This dual wall frame can effectively protect the pipes against any kinds of damages caused by vibration, friction, corrosion and thus improve the reliability of these pipes.

■ Features:

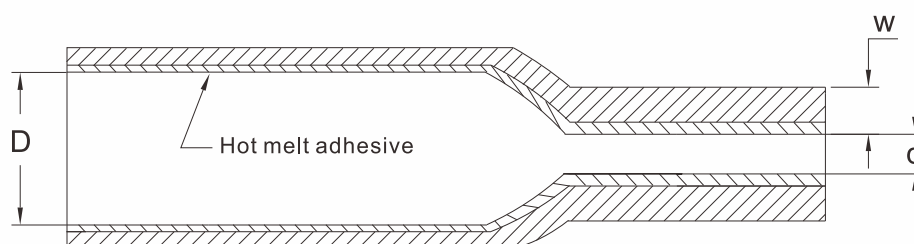
Operating temp.: -40°C to 80°C	UV resistant
Flammable	Semi-rigid
Shrink ratio 1.6:1	Min. full recovery temp.: 120°C
RoHS compliant	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	12MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength Elongation after Heat aging 120°C/124hrs	UL 224	12MPa minimum 270% minimum
Deformation resistance	UL 224	50% minimum
Impact resistance	ASTM D 746	No cracking at -35°C/1hr
Stress cracking resistance	ASTM D 1693	No cracking at 50°C/24hrs
Fluid resistance	Sulphuric acid Break fluid(honda) Unleaded petrol Sodium hydroxide(0.1N)	No cracking after 25°C/72hrs

■ Dimensions:



Size (mm)	As supplied (mm)	After recovered (mm)		
	D*(Min.)	d*(Max.)	w*(Min.)	A*(nom)
6	6.5	4.5	1.1	0.2
8	8.5	6.0	1.2	0.2
10	11.5	7.0	1.2	0.2
13	13.0	7.8	1.4	0.2
15	15.0	9.5	1.4	0.2

D* = Inner diameter as supplied
A* = Adhesive thickness after fully recovered

d* = Inner diameter after fully recovered
w* = Total wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



H-150K Special Products

Flexible flame retardant modified fluoropolymer tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Black, Clear.

■ Applications:

H-150K is excellent flame retardant modified fluoropolymer tubing for applications requiring high temperature resistance, outstanding abrasion and cut through resistance or superior chemical and solvent resistant properties. It reliably protects solder joints, terminations and connections against most industrial fuels, solvents and chemicals. The glass like appearance makes it also be used as mark tubing.

■ Features:

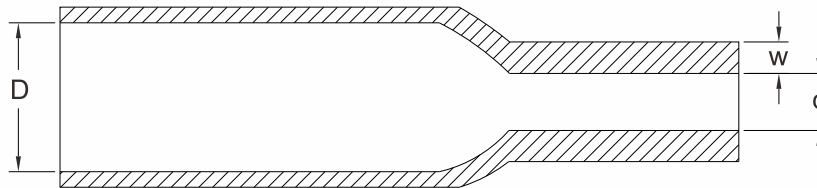
Operating temp.: -55°C to 150°C	Voltage rating: 600V
Flexible	Highly flame retardant
Shrink ratio 2:1	Min. full recovery temp.: 150°C
RoHS compliant	SAE-AMS-DTL 23053/18 class 2
Approval: UL224 VW-1 E249362	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	18MPa minimum
Ultimate elongation	ASTM D 2671	300% minimum
Ultimate elongation after Aging at 225°C for 168hrs	UL 224	250% minimum
Heat shock at 275°C for 4hrs	ASTM D 2671	No cracking
Dielectric strength	ASTM D 2671	15.7kV/mm minimum
Volume resistance	ASTM D 2671	10 ¹³ Ω.cm minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking
Flammability	UL 224, VW-1	Pass

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
3/64	1.2	0.6	0.26
1/16	1.6	0.8	0.26
3/32	2.4	1.2	0.26
1/8	3.2	1.6	0.26
3/16	4.8	2.4	0.26
1/4	6.4	3.2	0.26
3/8	9.5	4.8	0.30
1/2	12.7	6.4	0.30
3/4	19.1	9.5	0.30
1	25.4	12.7	0.30

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z) Thin Wall Tubing
H-2(3X) Thin Wall Tubing
H-2F Thin Wall Tubing
H-2F(3X/4X) Thin Wall Tubing
H-2F(YG)(2X/3X) Thin Wall Tubing
H-2HF Thin Wall Tubing
H-1 Thin Wall Tubing
HBG Thin Wall Tubing
H-5(3X/4X) Dual Wall Tubing
H-5(3X/4X)-F Dual Wall Tubing
HBK Dual Wall Tubing
HBK-CAP Dual Wall Tubing
HS-3000 /HS-4000 Dual Wall Tubing
H-5(2000) Dual Wall Tubing
H-150K Special Products
H-175K Special Products
HDR Special Products
H-200E Special Products
HTFE Special Products
HFSP Special Product
HBCS Special Products
MINI-BOX Special Products



H-175K Special Products

Rigid flame retardant PVDF tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Black, Clear.

■ Applications:

H-175K is PVDF tubing for applications requiring high temperature performance, outstanding abrasion and cut through resistance or superior chemical and solvent resistant properties. It reliably protects wires, solder joints, terminals and connections and components from most industrial fuels, solvents and chemicals.

■ Features:

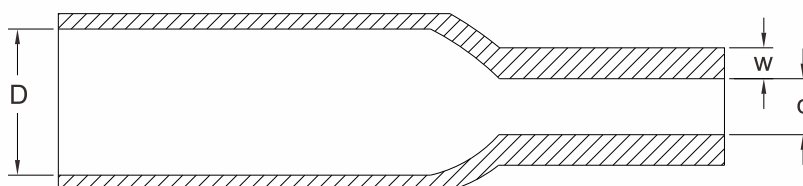
Operating temp.: -55°C to 175°C	Voltage rating: 600V
Rigid	Highly flame retardant
Shrink ratio 2:1	Min. full recovery temp.: 175°C
RoHS compliant	SAE-AMS-DTL 23053/8 compliant
Approval : UL224 VW-1 E249362	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	34.5MPa minimum
Ultimate elongation	ASTM D 2671	150% minimum
Ultimate elongation after Aging at 250°C for 168hrs	UL 224	50% minimum
Heat shock at 300°C for 4hrs	ASTM D 2671	No cracking & dripping
Dielectric strength	ASTM D 2671	25kV/mm minimum
Volume resistance	ASTM D 2671	10 ¹³ Ω.cm minimum
Cold bend at -40°C for 4hrs	ASTM D 2671	No cracking
Flammability	UL 224, VW-1	Pass

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
3/64	1.2	0.6	0.20
1/16	1.6	0.8	0.20
3/32	2.4	1.2	0.23
1/8	3.2	1.6	0.23
3/16	4.8	2.4	0.23
1/4	6.4	3.2	0.23
3/8	9.5	4.8	0.28
1/2	12.7	6.4	0.32
3/4	19.1	9.5	0.36
1	25.4	12.7	0.41

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

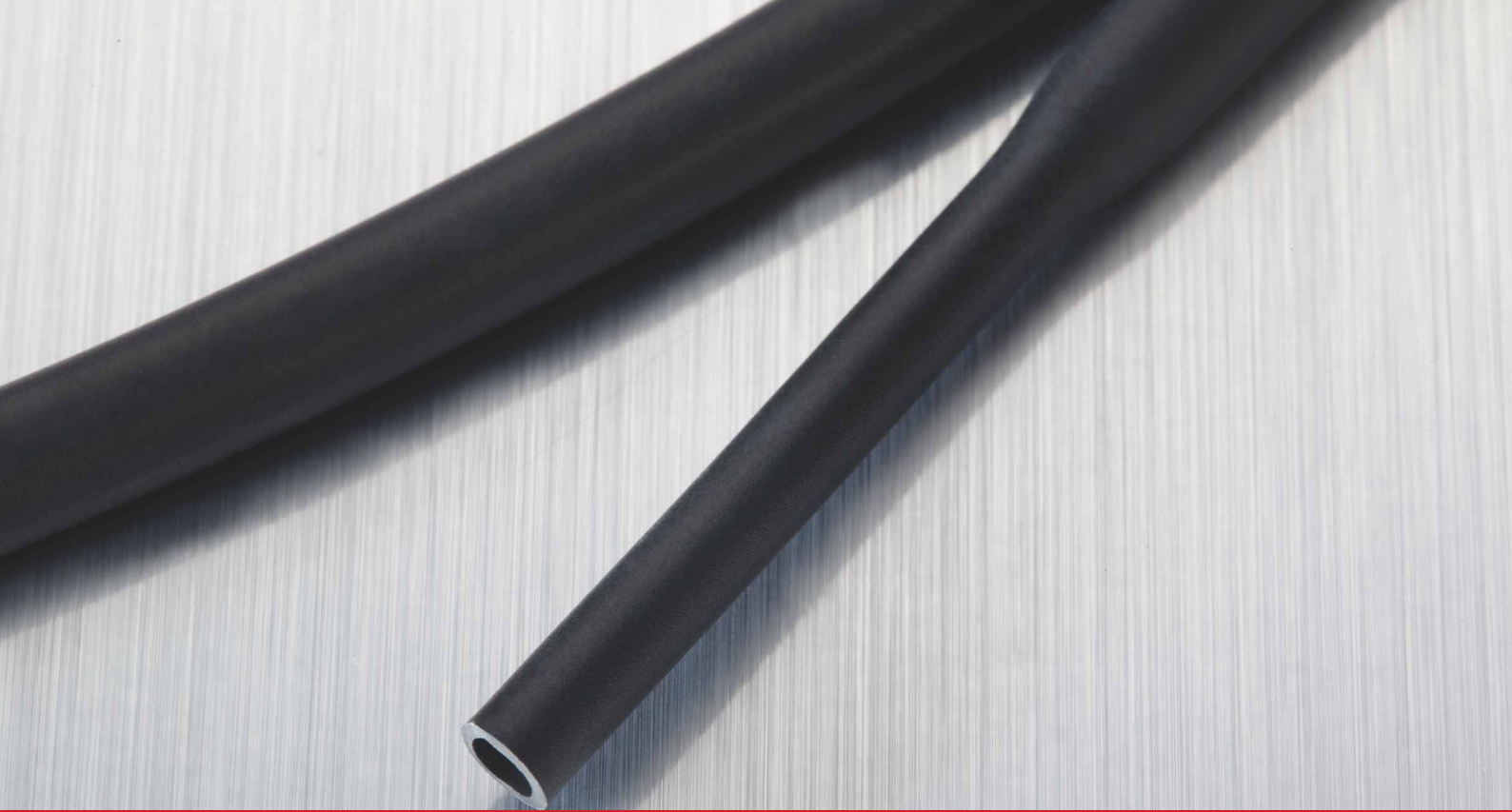
H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



HDR Special Products

Diesel resistant elastomeric tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Black.

■ Applications:

Made from modified radiation crosslinked elastomers, has superior diesel, chemical and abrasion resistance. The specially designed formulation provides the tubing with high temperature fluid resistant and long term heating resistant and effective protection to cable termination, splices and joint used in military vehicles.

■ Features:

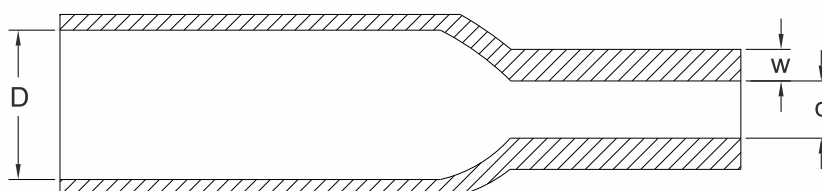
Operating temp.: -55°C to 150°C	Voltage rating: 600V
Flexible	Flame retardant
Shrink ratio 2:1	Min. full recovery temp.: 175°C
RoHS compliant	SAE-AMS-DTL 23053/16 compliant



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	11.7MPa minimum
Ultimate elongation	ASTM D 2671	250% minimum
Tensile strength after Aging at 150°C for 168hrs	UL 224	10.3MPa Minimum
Ultimate elongation after Aging at 150°C for 168hrs	UL 224	200% minimum
Heat shock at 200°C/4hrs	ASTM D 2671	No cracking & dripping
Dielectric strength	ASTM D 2671	11.9kV/mm minimum
Volume resistance	ASTM D 2671	10 ⁹ Ω.cm minimum
Cold bend at -30°C for 1hr	ASTM D 2671	No cracking
Flammability	ASTM D 2671 Proc.B	Self extinguising in 60sec.
Fluid resistance Tensile strength Ultimate elongation	ASTM D 2671, diesel fuel 70°C/24hrs	10.4MPa minimum 200% minimum

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
1/8	3.2	1.6	0.73
3/16	4.8	2.4	0.80
1/4	6.4	3.2	0.85
3/8	9.5	4.8	0.97
1/2	12.7	6.4	1.16
3/4	19.1	9.5	1.37
1	25.4	12.7	1.70
1 1/2	38.1	19.1	2.25

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



H-200E Special Products

Fluoroelastomer flame retardant tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Black.

■ Applications:

Made from modified fluoroelastomer(Viton), with superior impact, abrasion and cut through resistant. It is suitable to many applications requiring high resistance to corrosive fluids, fuels, lubricants, acids and solvents at elevated temperature.

■ Features:

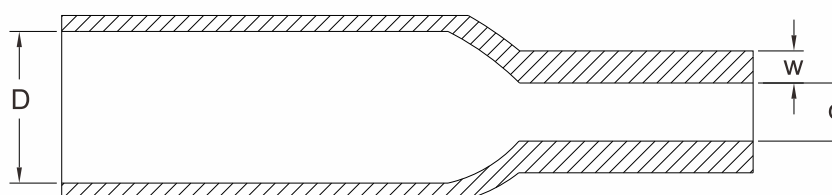
Operating temp.: -40°C to 200°C	Voltage rating: 600V
Very flexible	Flame retardant VW-1
Shrink ratio 2:1	Min. full recovery temp.: 175°C
RoHS compliant	SAE-AMS-DTL 23053/13 compliant
Approval UL 224, VW-1 E249362	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	8.2MPa minimum
Ultimate elongation	ASTM D 2671	250% minimum
Tensile strength after Aging at 250°C for 168hrs	UL 224	8.2MPa minimum
Ultimate elongation after Aging at 250°C for 168hrs	UL 224	200% minimum
Heat shock at 300°C for 4hrs	ASTM D 2671	No cracking & dripping
Dielectric strength	ASTM D 2671	7.9kV/mm minimum
Volume resistance	ASTM D 2671	10 ⁹ Ω.cm minimum
Cold bend at -40°C for 4hr	ASTM D 2671	No cracking
Flammability	UL 224, VW-1	Pass
Fluid resistance Tensile strength Ultimate elongation	ASTM D 2671, diesel fuel 70°C/24hrs	8.2MPa minimum 250% minimum

■ Dimensions:



Size (Inch)	As supplied (mm)	After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)
1/8	3.2	1.6	0.80
3/16	4.8	2.4	0.95
1/4	6.4	3.2	0.98
3/8	9.5	4.8	1.00
1/2	12.7	6.4	1.16
3/4	19.1	9.5	1.49
1	25.4	12.7	1.85

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

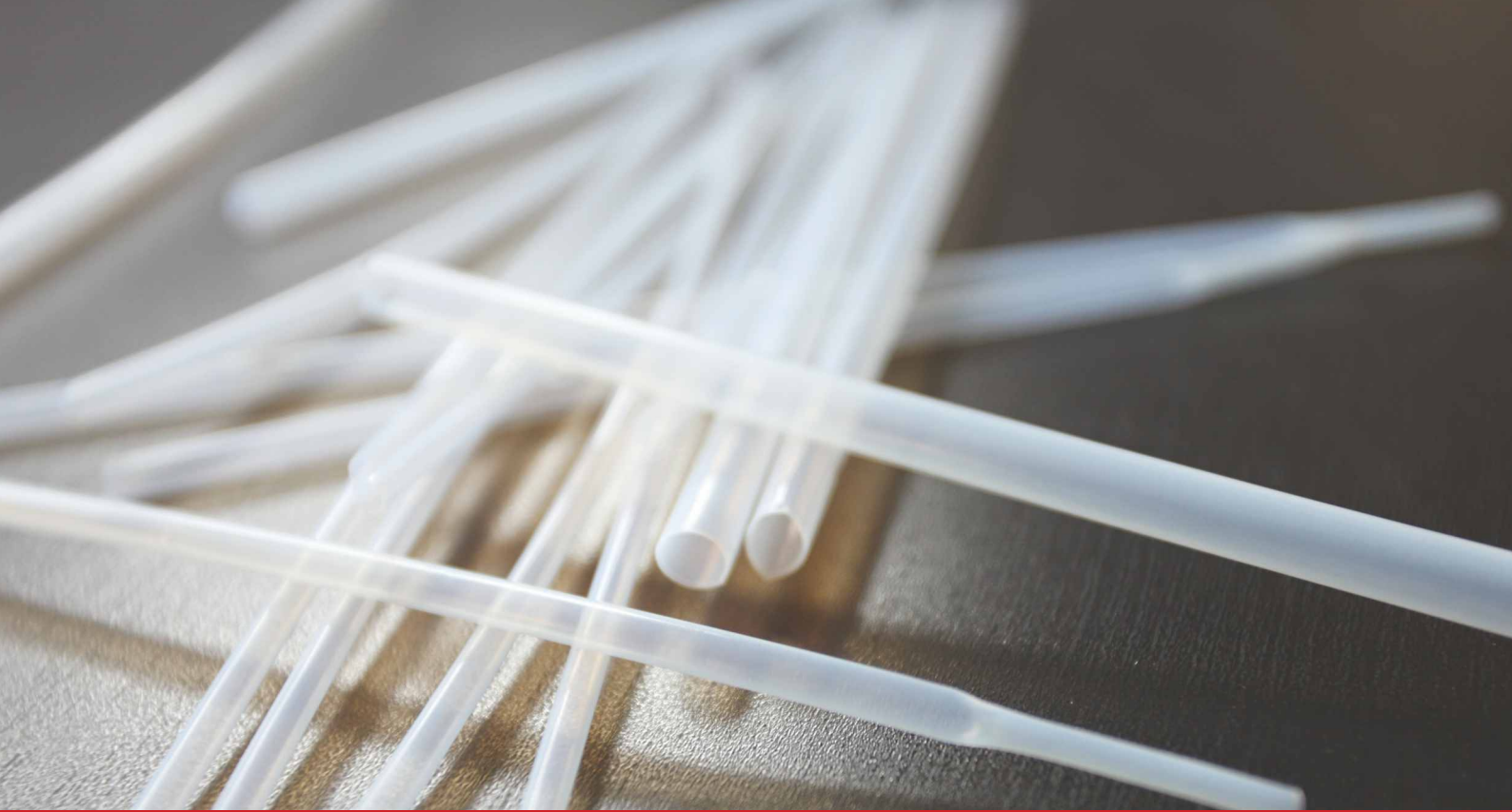
H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



HTFE Special Products

Teflon tubing

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Milk white.

■ Applications:

HTFE is manufactured with polytetrafluoroethylene(PTFE). Specially designed for applications such as in the field of automotive, military and aerospace. HTFE provides very excellent high temperature stability, chemicals resistant, extreme electrical insulation and highly flame retardant.

■ Features:

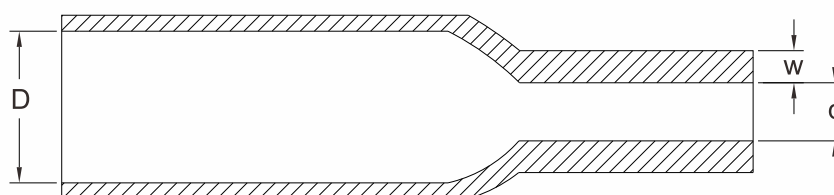
Operating temp.: -65°C to 260°C	Voltage rating: 600V
Trancelence	Highly flame retardant
Shrink ratio 1.6:1	Min. full recovery temp.: 350°C
RoHS compliant	SAE-AMS-DTL 23053/12 class 2 compliant



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	17.3MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Tensile strength after Aging at 350°C for 96hrs	UL 224	17.3MPa minimum
Ultimate elongation after Aging at 350°C for 96hrs	UL 224	200% minimum
Heat shock at 260°C for 4hrs	ASTM D 2671	No cracking & dripping
Dielectric strength	ASTM D 2671	31.5kV/mm minimum
Volume resistance	ASTM D 876	10 ¹⁵ Ω.cm minimum
Cold bend at -65°C for 4hrs	ASTM D 2671	No cracking
Flammability	UL 224,VW-1	Pass

■ Dimensions:



Size	As supplied (mm)		After recovered (mm)		Size (mm)	As supplied (mm)		After recovered (mm)	
	D*(Min.)	d*(Max.)	w*(Min.)			D*(Min.)	d*(Max.)	w*(Min.)	
AWG 20	1.52	0.97	0.30		AWG 8	6.10	3.55	0.38	
AWG 18	1.93	1.17	0.30		AWG 6	7.67	4.40	0.38	
AWG 16	2.36	1.45	0.30		AWG 4	9.40	5.45	0.38	
AWG 14	3.05	1.82	0.30		AWG 2	10.92	6.90	0.38	
AWG 12	3.81	2.26	0.30		AWG 0	11.94	8.56	0.38	
AWG 10	4.85	2.80	0.30						

D* = Inner diameter as supplied

d* = Inner diameter after fully recovered

w* = Wall thickness after fully recovered

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

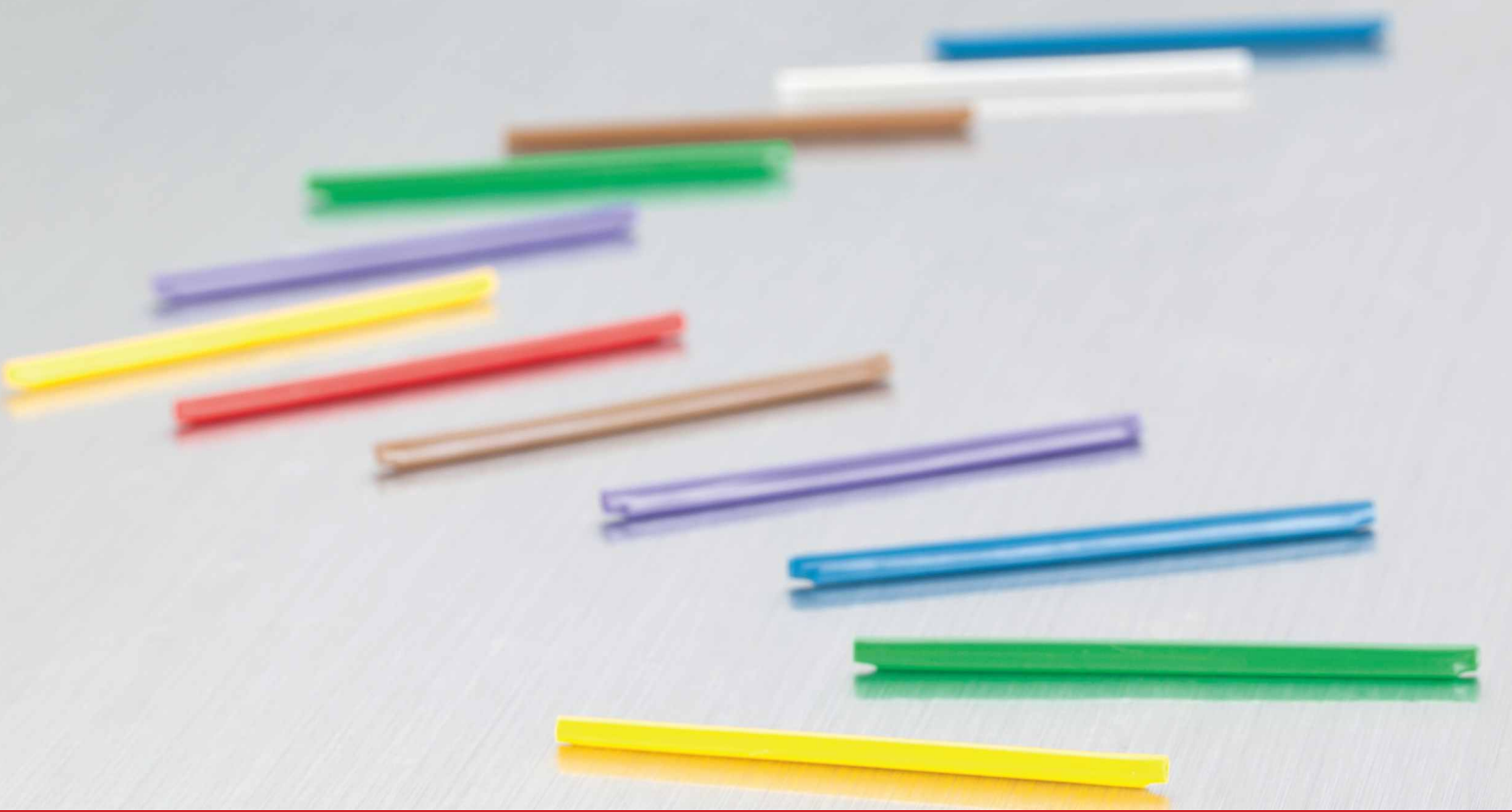
H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



HFSP Special Products

Fiber optic splice protector

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:

Clear.

Special colors:

Blue, Yellow, Green, Violet, Brown, Red.

■ Applications:

Consist of cross linked polyolefin, hot fusion tubing and stainless reinforcing steel rod which keeps optical transmission properties of optical fiber and enhance the protection to optical fiber splices. Sealing structure makes the splice free from influence of temperature and humidity in special environment.

■ Features:

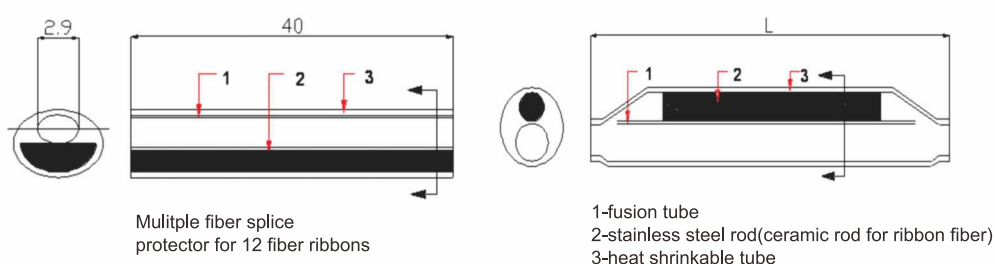
Pre-installed stainless steel and heat fusion polyolefin tubing	Operating temp.: -55°C to 135°C
Min. full recovery temp.: 120°C	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	18MPa minimum
Ultimate elongation	ASTM D 2671	200% minimum
Density	ASTM D 792	0.94g/cm ³
Dielectric strength	ASTM D 2671	20kV/mm minimum
Dielectric constant	IEC 250	2.5 maximum

■ Dimensions:



Size	Splice protector (mm)		Fusion tube (mm)		Steel rod (mm)		Packing (pcs/bag)
	O.D	L	I.D	L	O.D	L	
Larger sleeves							
HFSP-61	3.0	61.0	1.40	61	1.5	55	100
HFSP-45	3.0	45.0	1.40	45	1.5	40	100
Standard sleeves							
HFSP-61T	2.5	61.0	1.40	61	1.0	57	100
HFSP-45T	2.5	45.0	1.40	45	1.0	41	100
HFSP-40T	2.5	40.0	1.40	40	1.0	36	100
HFSP-30T	2.5	30.0	1.40	30	1.0	27	100
HFSP-25T	2.5	25.0	1.40	25	1.0	21	100
Mini/micro sleeves							
HFSP-40M	1.3	40.0	0.35	40	0.5	40	100
HFSP-25M	1.3	25.0	0.35	25	0.5	25	100
HFSP-18M	1.3	18.0	0.35	18	0.5	18	100
HFSP-15M	1.3	15.0	0.35	15	0.5	15	100
HFSP-10M	1.3	10.0	0.35	10	0.5	10	100

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



HBCS Special Products

Water proof splice

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
Clear red, Clear yellow, Clear blue.

■ Applications:

It is manufactured by co-extrusion of super high strength polymeric materials and hot-melt adhesive. Designed to provide both insulation and sealing for wire connector.

■ Features:

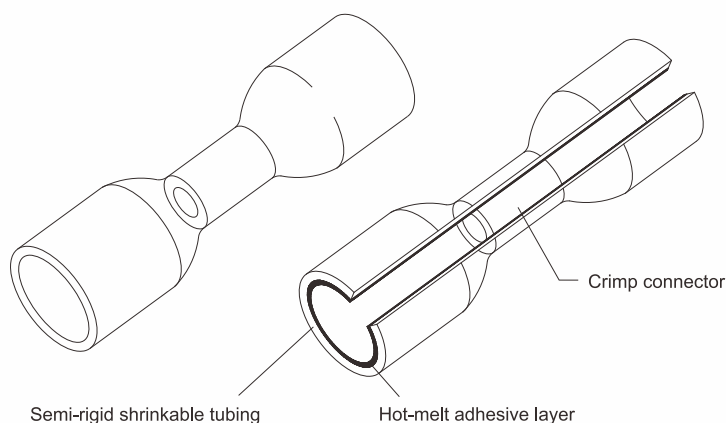
Shrink ratio: 3:1	Operating temp.: -55°C to 125°C
Min. full recovery temp.: 110°C	—



■ Typical technical performances:

Test Items	Test Method	Test Requirements
Tensile strength	ASTM D 2671	26MPa minimum
Elongation at break	ASTM D 2671	500% minimum
Heat aging Tensile strength Ultimate elongation	ASTM D 2671(165 ± 5°C/168hrs)	13MPa minimum 300% minimum
Heat shock	ASTM D 2671(250°C/4hrs)	No cracking, flowing of outer wall
Cold bend	ASTM D 2671(-40°C/1hr)	No cracking
Voltage withstand AC 2500V, 60seconds	ASTM D 2671	No breakdown
Volume resistance	ASTM D 2671	10 ¹⁴ Ω.cm minimum
Water absorption	ASTM D 570	0.5% maximum
Fluid resistance(23°C/24hrs)	ASTM D 2671	Good to excellent
Specific gravity		0.96(nom.)
Dielectric strength	ASTM D 2671	30KV/mm minimum

■ Dimensions:



Standard color	Size (mm)	As supplied (mm)	After recovered (mm)			Cut length (mm)	Standard length (m)
		Inside diameter (Min.)	Inside diameter (Max.)	Total Wall thickness (nom.)	Adhesive Thickness (nom.)		
Red	HBCS-1	4.3	1.4	1.30	0.45	38	200
Blue	HBCS-2	5.0	1.8	1.35	0.45	38	100
Yellow	HBCS-3	5.5	2.2	1.35	0.45	42	50

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products



MINI-BOX Special Products

■ Shelf life & storage:

Heat Shrink Product provided by Hongshang has a over 5 year's shelf life from date of manufacture when stored in a humidity controlled storage(-10°C to 40°C and < 75% relative humidity).

■ Ordering information:

Standard colors:
See individual product.

■ Applications:

MINI-BOX offers a convenient packaging and dispensing option for a range of heat shrinkable tubing. A dispensing window allows the tubing to be easily and readily accessed. MINI-BOX is a suitable method of storing and for using in the workshop, service vehicle or laboratory. MINI-BOX is available for H-2(Z), H-1, H-2(3X),H-2F,H-2F(YG),H-5(3X), etc.

■ Features:

Easy to store and dispenser	Keep product dust-free
Offer flexibility of choice in length	—



■ Dimensions:

Thin Wall Tubing		Dual Wall Tubing	
Size (mm)	m/pool	Size (mm)	m/pool
1.2	50	3	20
1.6	50	4.8	10
2.4	30	6	10
3.2	30	8	8
4.8	15	9	8
6.4	15	12	5
8	15	15	5
9.5	15	16	5
12.7	10	19	3
15.9	10	24	3
19.1	10		
20	10		
25.4	5		

H-2(Z)
Thin Wall Tubing

H-2(3X)
Thin Wall Tubing

H-2F
Thin Wall Tubing

H-2F(3X/4X)
Thin Wall Tubing

H-2F(YG)(2X/3X)
Thin Wall Tubing

H-2HF
Thin Wall Tubing

H-1
Thin Wall Tubing

HBG
Thin Wall Tubing

H-5(3X/4X)
Dual Wall Tubing

H-5(3X/4X)-F
Dual Wall Tubing

HBK
Dual Wall Tubing

HBK-CAP
Dual Wall Tubing

HS-3000
/HS-4000
Dual Wall Tubing

H-5(2000)
Dual Wall Tubing

H-150K
Special Products

H-175K
Special Products

HDR
Special Products

H-200E
Special Products

HTFE
Special Products

HFSP
Special Product

HBCS
Special Products

MINI-BOX
Special Products

CROSS REFERENCES

Hongshang	Raychem	Sumitomo	DSG-Canusa
H-2(Z)	VERSAFIT V2	F2(Z)	DERAY-H
H-2(3X)	VERSAFIT 3X	F2(3X)	
H-2F	RNF-100/VERSAFIT	B2(Z)	CPX 100/CPX 876/DERA-I
H-2F(3X)(4X)	RNF-3000/ RP-4800	B2(3X)	CPX 300/DERAY-1 3000
H-2F(Y/G)(2X/3X)	DCPT 2:1/DCPT 3:1	B2(Y/G)	CPX 201/ DERAY IGY
H-2(HF)	ZHTM	SUMITUBE-NH	CZT 200
H-1	CGPE-105	C	DERAY HB
H-5(3X,4X)	ATUM	W3B2	DERAY IAKT
H-5(3X,4X)-F	ATUM	W3B2	DERAY IAKT
HBK	RBK	SA2	CBK
HBK-CAP	ES-CAP	SA2-CAP	CDR-CAP
HS-3000/HS-4000	ES-1000/ES-2000	SA2	DERAY SPLICEMELT 125
H-5(2000)	AP-2000	O2	HBKT/IBKT
H-150K	RT375/RNF-150	K2	
H-175K	KYNAR,RW-175	K	CKN-175/DERAY KY175
HDR	DR-25		DERAY V25
H-200E	VITON	FE3	DERAY VT220
HTFE	TFE		CTFE 250
HFSP	SMOUV	FSP-1	CFSP
HBCS	DURASEAL	SUMISEAL	CRIMPSEAL

Notes: This is a guide only, Hongshang products may not be a direct equivalent as listed. Please check with us before ordering.



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