

# Heraeus

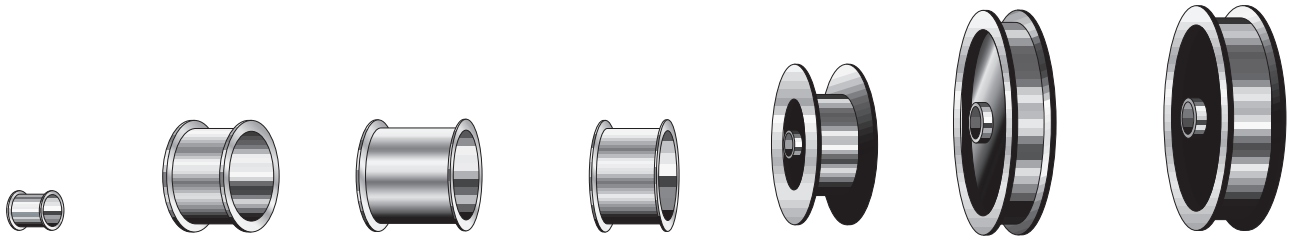


## **Bonding Wires for Semiconductor Technology**

**W. C. Heraeus**

# Heraeus standard spools

According to the customers' requirements, the wire is supplied wound either in single or multiple layer spools. Special packaging guarantees protection against impacts during transport and storage. The illustration shows various Heraeus bonding wire spools.



Spool type	Material	Flange diameter [mm]	Core diameter [mm]	Core wall thickness [mm]	Internal diameter [mm]	Overall width [mm]	Width over windings [mm]
1/2"-Al-DF	Aluminum	17.4	13.4	0.35	12.7	19.0	18.0
2"-Al-DF	Aluminum	56.9	50.0	0.5	49.0	29.0	25.0
2"-Al-DF-B	Aluminum	56.9	50.0	0.5	49.0	54.0	51.0
2"-Al-DF-BS	Aluminum	58.4	50.0	0.5	49.0	47.0	45.5
2"-SS-DF	Stainless steel	57.15	50.0	0.5	49.0	32.5	28.0
3,5"-PS-DF	Polystyrene	82.5	48.0	-	10.5	30.5	25.0
4"-PS-DF	Polystyrene	119.0	104.0	-	11.0	20.0	15.0
4"-PS-DF-B	Polystyrene	123.0	104.0	-	11.0	35.0	30.0

Other spool types on request!

## Possible delivery lengths for bonding wires

μm	mil	1/2"-Al-DF		2"-SS-DF		2"-Al-DF		2"-Al-DF-B/BS		3.5"-PS-DF	4"-PS-DF	4"-PS-DF-B
		sl <sub>max</sub>	ml <sub>max</sub>	sl <sub>max</sub>	ml <sub>max</sub>	sl <sub>max</sub>	ml <sub>max</sub>	sl <sub>max</sub>	ml <sub>max</sub>	ml <sub>max</sub>	ml <sub>max</sub>	ml <sub>max</sub>
15	0.6	25	125	100	1000	100	1000	200	3000	-	-	-
17.5	0.7	25	125	100	1000	100	1000	200	3000	-	-	-
20	0.8	25	125	100	1000	100	1000	200	3000	-	-	-
23	0.9	25	125	100	1000	100	1000	200	3000	-	-	-
25	1.0	25	125	100	1000	100	1000	200	3000	-	-	-
30	1.2	20	100	100	1000	100	1000	200	3000	-	-	-
32	1.25	20	100	100	1000	100	1000	200	2000	-	-	-
33	1.3	20	100	100	1000	100	1000	200	2000	-	-	-
38	1.5	17	85	90	500	80	500	160	1000	-	-	-
50	2.0	13	65	80	500	70	500	120	500	-	-	-
75	3.0	-	-	50	300	40	300	90	200	-	-	-
100	4.0	-	-	35	200	30	200	-	-	on request	300	300
125	5.0	-	-	-	-	-	-	-	-	on request	300	300
150	6.0	-	-	-	-	-	-	-	-	on request	300	300
175	7.0	-	-	-	-	-	-	-	-	on request	200	200
200	8.0	-	-	-	-	-	-	-	-	on request	200	200
250	10.0	-	-	-	-	-	-	-	-	on request	200	200
300	12.0	-	-	-	-	-	-	-	-	500	200	200
375	15.0	-	-	-	-	-	-	-	-	400	100	100
500	20.0	-	-	-	-	-	-	-	-	300	100	100

sl = single layer ml = multiple layer

# Inquiry and order data for Heraeus bonding wires



Please copy and fax to:

**W. C. Heraeus GmbH**  
 Contact Materials Division  
 CMD-BW  
 Heraeusstr. 12 – 14  
 63450 Hanau  
 Germany

**Telefax-No.**  
**+49 (0) 61 81 / 35-51 79**

Date \_\_\_\_\_

Name \_\_\_\_\_

Position \_\_\_\_\_

Company \_\_\_\_\_

Street/PO Box No. \_\_\_\_\_

Postal Code/Town \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_

Telefax \_\_\_\_\_

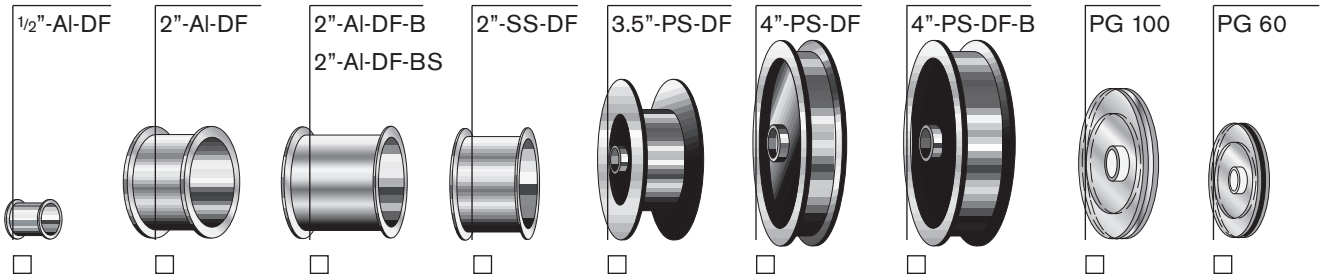
E-mail \_\_\_\_\_

I am interested in bonding wires of (please mark with a cross)

Gold:	<input type="checkbox"/> Type HD 2	<input type="checkbox"/> Type HD 3	<input type="checkbox"/> Type HD 5	<input type="checkbox"/> Type HA 1
	<input type="checkbox"/> Type HA 3	<input type="checkbox"/> Type HA 5	<input type="checkbox"/> Type HA 6	<input type="checkbox"/> Type HA 7
Aluminum:	<input type="checkbox"/> Type Al 1%Si	<input type="checkbox"/> Type Al 0.5%Mg	<input type="checkbox"/> Type Al-R	<input type="checkbox"/> Type Al-H11
	<input type="checkbox"/> Type Al 1%Si-CR	<input type="checkbox"/> Type Al 0.5%Mg CR		<input type="checkbox"/> Type Al-H11-CR
Copper	<input type="checkbox"/> Copper HC 1			
Others:	<input type="checkbox"/> Bump wires	<input type="checkbox"/> Al coated Au wires	<input type="checkbox"/> Pd bonding wires	<input type="checkbox"/> Insulated bonding wires
	<input type="checkbox"/> Al ribbons	<input type="checkbox"/> Further wires		

Wire ø \_\_\_\_\_ μm      Breaking load \_\_\_\_\_ cN      Elongation \_\_\_\_\_ %

**Spool types:**



Other spool types on request!

Winding:     single layered     multiple layered     parallel-wound     cross-wound    \_\_\_\_\_ m per spool

Fixing:       adhesive tape     lacquer

Wire start:     green                 other colors \_\_\_\_\_

Wire end:       red                     other colors \_\_\_\_\_

**I am interested in:**

Bonding foils of \_\_\_\_\_

Thickness \_\_\_\_\_ μm      Width \_\_\_\_\_ μm      Minimum delivery length \_\_\_\_\_ m

Desired delivery date \_\_\_\_\_

Remarks \_\_\_\_\_

# Worldwide production locations for bonding wires

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## China

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Heraeus Zhaoyuan Precious Metal  
Materials Co., Ltd. (HZPM)

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Zhaoyuan City  
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Fax +86 (535) 8 23 94 93

E-mail: [hzpm@heraeus.com.cn](mailto:hzpm@heraeus.com.cn)

Heraeus Zhaoyuan Changshu  
Electronic Materials Co., Ltd. (HZCM)

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Fax +86 (512) 52 85 97 15

E-mail: [hzcm@heraeus.com.cn](mailto:hzcm@heraeus.com.cn)

## Philippines

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Heraeus Electronic Materials  
Philippines, Inc. (HEP)

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## Korea

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## Germany

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We reserve the right to make technical alterations as  
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