

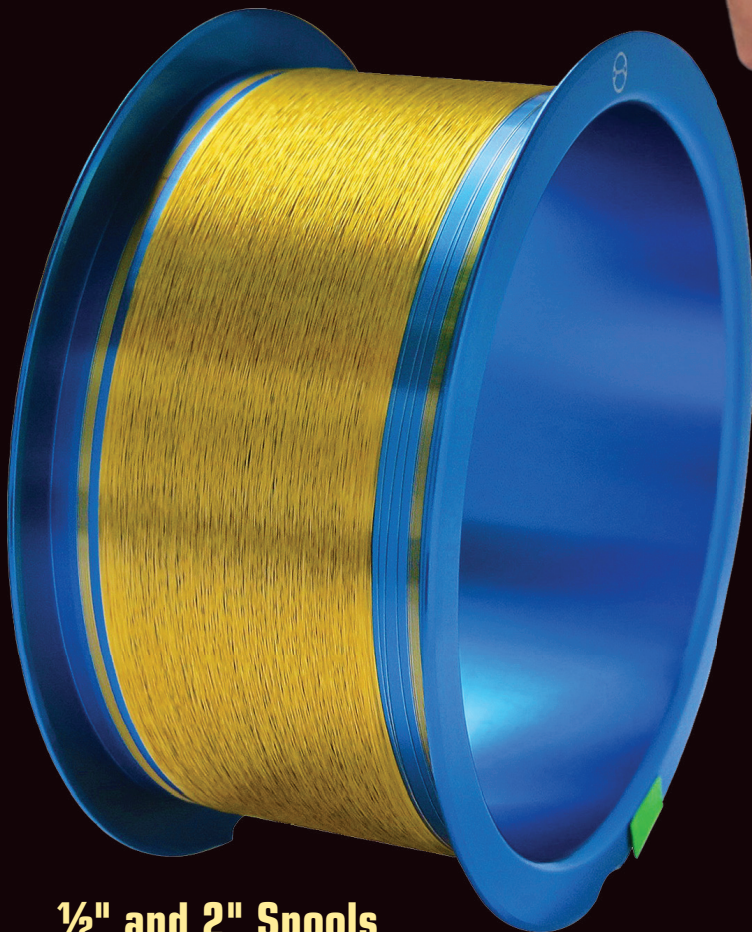
Available from:

TopLine[®]

GOLD • ALUMINUM

BONDING WIRE

**FOR WEST•BOND[®]
MACHINES**



1/2" and 2" Spools



Made by  **TANAKA**

2022-A

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Tel 1-800-776-9888

About TopLine:

TopLine offers bonding wire made by Tanaka to universities, microelectronic labs and small volume users. Easy to order. Yes. Just one spool is OK - Contact us today.

About Tanaka:

Tanaka is the world's premier manufacturer of bonding wire to the semiconductor industry. Tanaka offers a full range of Gold (Au) and Aluminum (Al) covering all applications of wedge and ball bonding.

Al-1% Si - Aluminum Wire

Small diameter Al-1% Si wire in diameters ranging from 18um to 80um. Good corrosion resistance. Uniform distribution of Si and stable mechanical properties.

Au Gold Ribbon Wire

Flat aluminum (Al) and Gold (Au) is available for power device applications. Excellent corrosion resistance and satisfactory surface smoothness.

Start-End Spool

Green tape indicates start of spool. Red tape is the end.

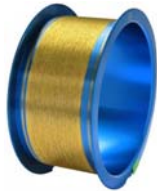
Au Gold Wire

4N gold bonding wire in a range of diameters from 15um to 50um. Many specialty applications including stable stitch, fine-pitch, super low loop and high reliability applications.

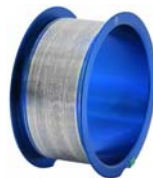
Technical Support:

Contact TopLine for technical support and questions for applications involving special needs. We look forward to assisting you. Email Tanaka@TopLine.tv Or call 1-800-776-9888

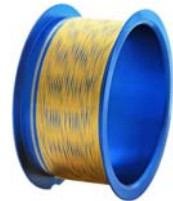
Find it Fast



**GLD-H Type
Gold Au (4N)
High Performance Wedge**
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**TABN Type
Aluminum Al-1% Si
Bonding Wire**
Page 6 ~ 7



**AuR Type
Gold Au Ribbon
Flat Bonding Wire**
Page 8 ~ 9

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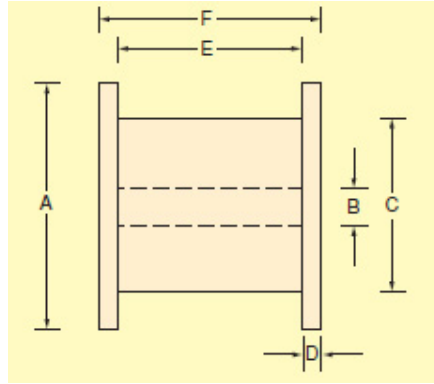
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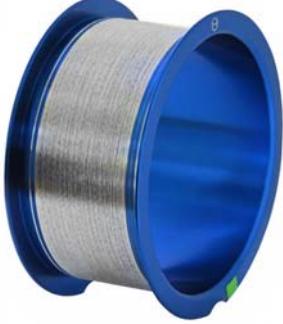

Ready to assist you.

Spools



Spool Dimensions

Spool Material	Type	A Flange Diameter	B Shaft Diameter	C Hub Diameter	D Hub Thickness	E Winding Width	F Overall Width	Style	Part Code
Aluminum Double Flange	2-inch	58.5mm	48.8mm	50.3mm	0.75mm	26.4mm	27.9mm	AL-2W	A
	1/2-inch	17.4mm	12.7mm	13.5mm	0.40mm	18.3mm	19.1mm	HALF	H

Spool A	Spool H
 <p>AL-2 Double Flange Anodized Aluminum 2" x 1"</p>	 <p>HALF-INCH 1/2" x 3/4"</p>

GLD-H Type High Performance Wedge Bonding Wire



Ø Diameter ±1% µm	Breaking Load (gf)	Breaking Load (mN)	Elongation EL (%)	Length		Spool	Part Number	Order Nr
				Meter	Feet			
Ø 18µm (Ø 0.7 mil)	4.0 gf Min	39 mN Min	3.5% max	25m	75ft	1/2-inch	GLD-H-18H25 GLD-H-18H50 GLD-H-18A100	309189 309180 309181
				50m	150ft	1/2-inch		
				100m	328ft	2-inch		
Ø 20µm (Ø 0.8 mil)	6.0 gf Min	59 mN Min	3.5% max	25m	75ft	1/2-inch	GLD-H-20H25 GLD-H-20H50 GLD-H-20A100	309209 309200 309201
				50m	150ft	1/2-inch		
				100m	328ft	2-inch		
Ø 25µm (Ø 1.0 mil)	16 gf Min	156 mN Min	3.5% max	10m	33ft	1/2-inch	GLD-H-25H10 GLD-H-25H25 GLD-H-25H50 GLD-H-25A100	309258 309259 309250 309251
				25m	75ft	1/2-inch		
				50m	150ft	1/2-inch		
				100m	328ft	2-inch		
Ø 30µm (Ø 1.2 mil)	20 gf Min	196 mN Min	3.5% max	50m	150ft	1/2-inch	GLD-H-30H50 GLD-H-30A100	309300 309301
				100m	328ft	2-inch		
Ø 32µm (Ø 1.25 mil)	23 gf Min	225 mN Min	3.5% max	50m	150ft	1/2-inch	GLD-H-32H50 GLD-H-32A100	309320 309321
				100m	328ft	2-inch		
Ø 35µm (Ø 1.4 mil)	27 gf Min	264mN Min	4.5% max	50m	150ft	1/2-inch	GLD-H-35H50 GLD-H-35A100	309350 309351
				100m	328ft	2-inch		
Ø 38µm (Ø 1.5 mil)	35 gf Min	343mN Min	4.5% max	50m	150ft	1/2-inch	GLD-H-35H50 GLD-H-35A100	309380 309381
				100m	328ft	2-inch		
Ø 50µm (Ø 2.0 mil)	45 gf Min	441 mN Min	4.5% max	50m	150ft	1/2-inch	GLD-H-50H50 GLD-H-50A100	309500 309501
				100m	328FT	2-inch		

Spool Information

Type	A Flange Diameter	B Shaft Diameter	C Hub Diameter	D Hub Thickness	E Winding Width	F Overall Width	Style	Spool Code
	58.5mm	48.8mm	50.3mm	0.75mm	26.4mm	27.9mm	AL-2(W)	A
	17.4mm	12.7mm	13.5mm	0.40mm	18.3mm	19.1mm	HALF-INCH	H

Note 1: Round Wire is wound forward/cross pattern (Cross wound-cross hatch wind)

Note 2: Start wire on spool with Green tape. End wire on spool with Red tape.

- INFO**
- Note 1: For wedge to wedge applications that require maximum 3.5% elongation with Ø18~30µm
 - Note 2: Excellent breaking load for wedge bonding applications.
 - Note 3: Standard Tolerance: Ø12.5µm~38µm ±1 µm , Ø50µm ±2 µm
 - Note 4: Wire Diameter: 18µm , 20µm , 23µm 25µm , 28µm , 30µm , 32µm , 33µm , 35µm , 50µm

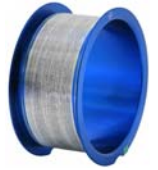
GLD-H Type High Performance Wedge Bonding Wire



Part Number System				
<u>GLD-H</u>	-	<u>25</u>	<u>H</u>	<u>50</u>
Type		Ø Diameter µm	Spool Type	Length Meters
Gold 4N (Au99.99)		Code Mil	Aluminum Spool	Meters Feet Spool
GLD-H = High Performance Wedge Bonding Wire		12.5 0.5mil	A = 2"x1" AL-2(W)	10 33ft (H)
		15 0.6mil	H = 1/2" AL-1/2	25 75ft (H)
		18 0.7mil		50 150ft (H)
		20 0.8mil		100 328ft (A)
		23 0.9mil		
		25 1.0mil		Meters controlling Length
		28 1.1mil		
		30 1.2mil		
		32 1.25mil		
		33 1.3mil		
		35 1.4mil		
		38 1.5mil		
	50 2.0mil			

Order Number				
<u>3</u>	<u>0</u>	<u>9</u>	<u>25</u>	<u>0</u>
Alloy	Shape	Model	Ø Diameter	Length
Code • Description 3 = Gold (Au)	Code Description 0 = Round Wire GLD-H 4 = Round Wire GHD	Gold Wire (Au) 9 = GLD-H	µm Mil	Code Meters Feet
			12.5 0.5mil	9 = 25m (75ft)
			15 0.6mil	0 = 50m (150ft)
			18 0.7mil	1 = 100m (328ft)
			20 0.8mil	8 = 10m (33ft)
			25 1.0mil	Meters controlling Length
			30 1.2mil	
			32 1.25mil	
			35 1.4mil	
			38 1.5mil	
			50 2.0mil	

TABN Type Aluminum Al-1% Si Bonding Wire



Ø Diameter ±1% µm	Breaking Load (gf)	Breaking Load (mN)	Elongation EL (%)	Length Meters	Length Feet	Spool	Part Number	Order Nr
Ø 18µm (Ø 0.7 mil)	6.0~7.5 gf	66~71mN	0.5~4.5%	25m	75ft	1/2-inch	TABN-18H25	403189
				50m	150ft	1/2-inch	TABN-18H50	403180
				100m	328ft	2-inch	TABN-18A100	403181
Ø 20µm (Ø 0.8 mil)	8.0~10 gf	79~98mN	0.5~4.5%	25m	75ft	1/2-inch	TABN-20H25	403209
				50m	150ft	1/2-inch	TABN-20H50	403200
				100m	328ft	2-inch	TABN-20A100	403201
Ø 25µm (Ø 1.0 mil)	13~15 gf	127~147 mN	0.5~4.5%	10m	33ft	1/2-inch	TABN-2510	403258
				25m	75ft	1/2-inch	TABN-25H25	403259
				50m	150ft	1/2-inch	TABN-25H50	403250
				100m	328ft	2-inch	TABN-25A100	403251
Ø 30µm (Ø 1.2 mil)	17~19 gf	167~186 mN	0.5~4.5%	25m	75ft	1/2-inch	TABN-30H25	403309
				50m	150ft	1/2-inch	TABN-30H50	403300
				100m	328ft	2-inch	TABN-30A100	403301
Ø 32µm (Ø 1.25 mil)	19~21 gf	186~206 mN	0.5~4.5%	25m	75ft	1/2-inch	TABN-32H25	403329
				50m	150ft	1/2-inch	TABN-32H50	403320
				100m	328ft	2-inch	TABN-32A100	403321
Ø 33µm (Ø 1.3 mil)	19~21 gf	186~206 mN	0.5~4.5%	25m	75ft	1/2-inch	TABN-32H25	403339
				50m	150ft	1/2-inch	TABN-32H50	403330
				100m	328ft	2-inch	TABN-32A100	403331
Ø 35µm (Ø 1.4 mil)	26~29 gf	255~284 mN	0.5~4.5%	25m	75ft	1/2-inch	TABN-35H25	403359
				50m	150ft	1/2-inch	TABN-35H50	403350
				100m	328ft	2-inch	TABN-35A100	403351
Ø 38µm (Ø 1.5 mil)	31~44gf	304~333 mN	0.5~5.0%	25m	75ft	1/2-inch	TABN-38H25	403389
				50m	150ft	1/2-inch	TABN-38H50	403380
				100m	328ft	2-inch	TABN-38A100	403381
Ø 50µm (Ø 2.0 mil)	147~53 gf	461~520 mN	0.5~6.0%	25m	75ft	1/2-inch	TABN-50H25	403509
				50m	150ft	1/2-inch	TABN-50H50	403500
				100m	328ft	2-inch	TABN-50A100	403501

Spool Information

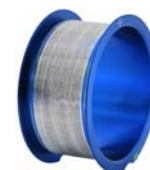
Type	A Flange Diameter	B Shaft Diameter	C Hub Diameter	D Hub Thickness	E Winding Width	F Overall Width	Style	Part Nr Code
	58.5mm	48.8mm	50.3mm	0.75mm	26.4mm	27.9mm	AL-2(W)	A
	58.5mm	48.8mm	50.3mm	0.75mm	45.5mm	47.0mm	AL-4	B
	17.4mm	12.7mm	13.5mm	0.40mm	18.3mm	19.1mm	HALF-INCH	H

Note 1: Round Wire is wound forward/cross pattern (Cross wound-cross hatch wind)

Note 2: Start wire on spool with Green tape. End wire on spool with Red tape.

- INFO**
- Note 1: Uniform distribution of Si and stable mechanical property.
 - Note 2: TABN with nickel doping for better corrosion resistance under PCT.
 - Note 3: Standard Tolerance: Ø18µm~38µm ±1 µm Ø40µm~50µm ±2 µm
 - Note 4: Wire Diameter available: 18µm , 20µm , 25µm , 28µm , 30µm , 32µm , 35µm , 38µm , 40µm , 50µm

TABN Type How to Order



Part Number System				
<u>TABN</u>	-	<u>25</u>	<u>H</u>	<u>50</u>
Type		Ø Diameter µm	Spool Type	Length Meters
TABN = Aluminum Al-1% Si With Nickel Doping		Code Mil 18 0.7mil 20 0.8mil 25 1.0mil 28 1.1mil 30 1.2mil 32 1.25mil 35 1.4mil 38 1.5mil 40 1.6mil 50 2.0mil	Aluminum Spool A = 2"x1" AL-2(W) H = 1/2" AL-1/2	Meters Feet Spool 10 33ft (H) 25 75ft (H) 50 150ft (H) 100 328ft (A) 300 1000ft (A)
				Meters controlling Length

Order Number				
<u>4</u>	<u>0</u>	<u>3</u>	<u>25</u>	<u>0</u>
Alloy	Shape	Model	Ø Diameter	Length
Code • Description 4 = Aluminum	Code Description 0 = Round Wire	Type 3 =TABN Al-1%Si With Nickel	µm Mil 18 0.7mil 20 0.8mil 25 1.0mil 28 1.1mil 30 1.2mil 32 1.25mil 35 1.4mil 38 1.5mil 40 1.6mil 50 2.0mil	Code Meters Feet 9 = 25m (75ft) 0 = 50m (150ft) 1 = 100m (328ft) 8 = 10m (33ft)
				Meters controlling Length

AuR Type Gold (Au) Ribbon Bonding Wire 4N



Size Width	Size Thickness	Breaking Load (gf)	Breaking Load (N)	Elongation EL (%)	Length Meters	Length Feet	Part Number	Order Nr
38um 1.5mil	12.7um 0.5mil	7.2~15.0 gf	71~147 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-38x12.7H10 AuR-38x12.7A50	326380 316380
50um 2.0mil		9.5~19.7 gf	94~193 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-50x12.7H10 AuR-50x12.7A50	326500 316500
75um 3.0mil		14.3~29.5 gf	141~289 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-75x12.7H10 AuR-75x12.7A50	326520 316520
100um 4.0mil		19.1~39.4 gf	188~386 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-100x12.7H10 AuR-100x12.7A50	326530 316530
125um 5.0mil		23.8~49.2gf	234~482 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-125x12.7H10 AuR-125x12.7A50	326540 316540
150um 6.0mil		28.6~59.2 gf	282~579 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-150x12.7H10 AuR-150x12.7A50	326550 316550
50um 2.0mil	25um 1.0mil	18.8~38.8 gf	185~380 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-50x25H10 AuR-50x25A50	326100 316100
75um 3.0mil		28.1~58.1 gf	276~569 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-75x25H10 AuR-75x25A50	326110 316110
100um 4.0mil		37.5~77.5 gf	368~686 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-100x25H10 AuR-100x25A50	326120 316120
125um 5.0mil		46.9~96.9 gf	460~950 N	≥ 2.0%	10m 50m	33ft 150ft	AuR-125x25H10 AuR-125x25A50	326130 316130
150um 6.0mil		56.3~116 gf	553~1140N	≥ 2.0%	10m 50m	33ft 150ft	AuR-150x25H10 AuR-150x25A50	326140 316140
200um 8.0mil		75.0~155 gf	736~1520N	≥ 2.0%	10m 50m	33ft 150ft	AuR-200x25H10 AuR-200x25A50	326150 316150
250um 10.0mil	93.8~194 gf	936~1900N	≥ 2.0%	10m 50m	33ft 150ft	AuR-250x25H10 AuR-250x25A50	326160 316160	
125um 5.0mil	50um 2.0mil	9.38~194 gf	920~1900N	≥ 2.0%	10m 50m	33ft 150ft	AuR-125x50H10 AuR-125x50A50	326220 316220

Spool Information

Type	A Flange Diameter	B Shaft Diameter	C Hub Diameter	D Hub Thickness	E Winding Width	F Overall Width	Style	Part Nr Code
	58.5mm	48.8mm	50.3mm	0.75mm	26.4mm	27.9mm	AL-2	A
	17.4mm	12.7mm	13.5mm	0.40mm	18.3mm	19.1mm	HALF-INCH	H

Note 1: Round Wire is wound forward/cross pattern (Cross wound-cross hatch wind)

Note 2: Start wire on spool with Green tape. Note 3: End wire on spool with Red tape.

INFO

Note 1: AuR Type Au Gold ribbon is fabricated using dry process. Provides an excellent solution for RF devices. No lubrication oils are introduced during fabrication. Excellent corrosion resistance. Tanaka AuR ribbon is made using a rolled process. Edges are smooth without sharp edges. Good surface smoothness.

Note 2: Alternative Gold Ribbon with Be (Beryllium) available as Type AuR-3 Type 353xxx.

AuR Type How to Order



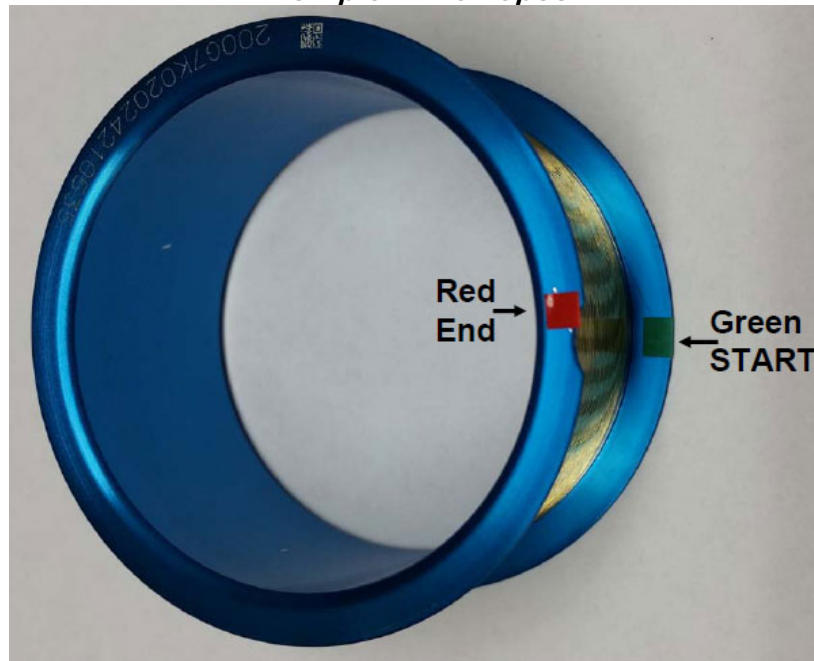
Part Number System													
<u>AuR</u>	-	<u>100x12.7</u>	<u>H</u>	<u>10</u>									
Type		Size Code	Spool Type	Length Meters									
AuR = Gold Au Bonding Ribbon 4N		W x Th 25~200 x 12.7um 50~250 x 25um 125 x 50um * See Other Sizes	Aluminum Spool A = 2"x1" AL-2 H = 1/2" HALF	<table border="1"> <thead> <tr> <th>Meters</th> <th>Feet</th> <th>Spool</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>33ft</td> <td>(H)</td> </tr> <tr> <td>50</td> <td>150ft</td> <td>(A)</td> </tr> </tbody> </table> Meters controlling dimension	Meters	Feet	Spool	10	33ft	(H)	50	150ft	(A)
Meters	Feet	Spool											
10	33ft	(H)											
50	150ft	(A)											

Order Number				
<u>3</u>	<u>2</u>	<u>6</u>	<u>53</u>	<u>0</u>
Alloy	Shape	Model	Size Code	Length
<u>Code • Description</u> 3 = Gold	<u>Code Description</u> 1 = Flat Wire 2-inch (A) Spool 2 = Flat Wire 1/2-inch (H) Spool	<u>Type</u> 6 = AuR Au Ribbon	<u>Code Width x Thick</u> 51 = 25 x 12.7um 38 = 38 x 12.7um 50 = 50 x 12.7um 52 = 75 x 12.7um 53 = 100 x 12.7um 55 = 150 x 12.7um 10 = 50 x 25um 11 = 75 x 25um 12 = 100 x 25um 13 = 125 x 25um 14 = 150 x 25um 15 = 200 x 25um 16 = 250 x 25um	<u>Code Meters Feet</u> 326 Series Spool "H" 0 = 10m (33ft) 316 Series Spool "A" 0 = 50m (150ft) 3 = 30m (100ft) Meters controlling

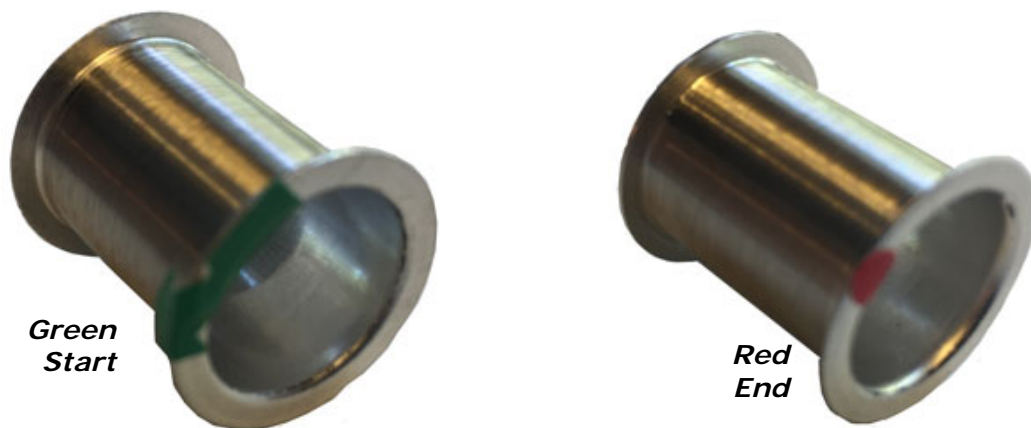
Start-End COLOR CODE

Green = Start
Red = End

Example 2-inch Spool



Example 1/2-inch Spool





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