

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	8	Cir Mils	16,511.78	AWG SYSTEM
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	3.35	Sq Mils	12,968.35	
		Sq MM	8.36690	
Approximate SWG Number	10	Sq Cm	0.0836690	
		Sq Inches	0.012968721	

	Inches	Millimeters
Nominal Bare Diameter	0.1285	3.2639
Nominal Coated Single Build Wire Diameter	0.1319	3.3503
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.1492	3.7891
Width of Slot for Machine Insertion	0.1282	3.2563
Length of Cut for Radius Cut	0.5093	12.9354
Depth of Cut for Radius Cut	0.4777	12.1346
Depth of Cut for Non-Radius Cut	0.4241	10.7728
Fusing Electrode Tip Diameter	0.1848	4.6932
Orient Blade Thickness	0.1250	3.1749
Stuffing Blade Thickness	0.1154	2.9307
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.4184	10.6270
Mimumun Tang Width	0.1324	3.3618
Minimum Tang Thickness	0.1261	3.2029
Minimum Tang Radius	0.0747	1.8984
Height of Tang Projection for Aluminum Wire ± 5%	0.0921	2.3392

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	9	Cir Mils	13,086.98
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	3.0	Sq Mils	10,278.52
		Sq MM	6.63148
Approximate SWG Number	11	Sq Cm	0.0663148
		Sq Inches	0.010278813

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	Inches	Millimeters
Nominal Bare Diameter	0.1144	2.9058
Nominal Coated Single Build Wire Diameter	0.1177	2.9896
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.1331	3.3812
Width of Slot for Machine Insertion	0.1141	2.8981
Length of Cut for Radius Cut	0.4544	11.5428
Depth of Cut for Radius Cut	0.4263	10.8283
Depth of Cut for Non-Radius Cut	0.3785	9.6130
Fusing Electrode Tip Diameter	0.1649	4.1880
Orient Blade Thickness	0.1112	2.8257
Stuffing Blade Thickness	0.1027	2.6083
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.3733	9.4829
Mimumun Tang Width	0.1178	2.9929
Minimum Tang Thickness	0.1123	2.8514
Minimum Tang Radius	0.0667	1.6940
Height of Tang Projection for Aluminum Wire ± 5%	0.0820	2.0826

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	10	Cir Mils	10,383.31	AWG SYSTEM
		Sq Mils	8,155.05	
Approximate IEC* Standard Metric Size	2.5	Sq MM	5.26147	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0526147	
Approximate SWG Number	12	Sq Inches	0.008155287	

	Inches	Millimeters
Nominal Bare Diameter	0.1019	2.5883
Nominal Coated Single Build Wire Diameter	0.1051	2.6695
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.1189	3.0192
Width of Slot for Machine Insertion	0.1016	2.5806
Length of Cut for Radius Cut	0.4058	10.3071
Depth of Cut for Radius Cut	0.3807	9.6691
Depth of Cut for Non-Radius Cut	0.3379	8.5839
Fusing Electrode Tip Diameter	0.1472	3.7396
Orient Blade Thickness	0.0991	2.5161
Stuffing Blade Thickness	0.0914	2.3226
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.3334	8.4678
Mimumun Tang Width	0.1050	2.6659
Minimum Tang Thickness	0.1000	2.5399
Minimum Tang Radius	0.0596	1.5127
Height of Tang Projection for Aluminum Wire ± 5%	0.0730	1.8550

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	11	Cir Mils	8,226.25	AWG SYSTEM
		Sq Mils	6,460.90	
Approximate IEC* Standard Metric Size	2.36	Sq MM	4.16843	
*International Electrotechnical Commission		Sq Cm	0.0416843	
Approximate SWG Number	13	Sq Inches	0.006461085	

	Inches	Millimeters
Nominal Bare Diameter	0.0907	2.3038
Nominal Coated Single Build Wire Diameter	0.0983	2.4968
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.1112	2.8239
Width of Slot for Machine Insertion	0.0904	2.2962
Length of Cut for Radius Cut	0.3795	9.6402
Depth of Cut for Radius Cut	0.3560	9.0435
Depth of Cut for Non-Radius Cut	0.3161	8.0285
Fusing Electrode Tip Diameter	0.1377	3.4977
Orient Blade Thickness	0.0881	2.2388
Stuffing Blade Thickness	0.0814	2.0665
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.3118	7.9199
Mimumun Tang Width	0.0934	2.3729
Minimum Tang Thickness	0.0890	2.2607
Minimum Tang Radius	0.0557	1.4148
Height of Tang Projection for Aluminum Wire ± 5%	0.0650	1.6511

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	12	Cir Mils	6,528.45	AWG SYSTEM
		Sq Mils	5,127.45	
Approximate IEC* Standard Metric Size	2.12	Sq MM	3.30812	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0330812	
Approximate SWG Number	14	Sq Inches	0.005127594	

	Inches	Millimeters
Nominal Bare Diameter	0.0808	2.0523
Nominal Coated Single Build Wire Diameter	0.0838	2.1285
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0948	2.4074
Width of Slot for Machine Insertion	0.0805	2.0447
Length of Cut for Radius Cut	0.3236	8.2182
Depth of Cut for Radius Cut	0.3035	7.7095
Depth of Cut for Non-Radius Cut	0.2695	6.8443
Fusing Electrode Tip Diameter	0.1174	2.9818
Orient Blade Thickness	0.0785	1.9936
Stuffing Blade Thickness	0.0725	1.8402
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.2658	6.7517
Mimumun Tang Width	0.0832	2.1139
Minimum Tang Thickness	0.0793	2.0139
Minimum Tang Radius	0.0475	1.2061
Height of Tang Projection for Aluminum Wire ± 5%	0.0579	1.4709

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	13	Cir Mils	5,183.85
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	1.8	Sq Mils	4,071.40
		Sq MM	2.62678
Approximate SWG Number	15	Sq Cm	0.0262678
		Sq Inches	0.004071514

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	Inches	Millimeters
Nominal Bare Diameter	0.0720	1.8288
Nominal Coated Single Build Wire Diameter	0.0749	1.9025
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0847	2.1517
Width of Slot for Machine Insertion	0.0717	1.8212
Length of Cut for Radius Cut	0.2892	7.3454
Depth of Cut for Radius Cut	0.2713	6.8907
Depth of Cut for Non-Radius Cut	0.2408	6.1174
Fusing Electrode Tip Diameter	0.1049	2.6651
Orient Blade Thickness	0.0699	1.7757
Stuffing Blade Thickness	0.0645	1.6391
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.2376	6.0346
Mimumun Tang Width	0.0742	1.8837
Minimum Tang Thickness	0.0707	1.7946
Minimum Tang Radius	0.0424	1.0780
Height of Tang Projection for Aluminum Wire ± 5%	0.0516	1.3107

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	14	Cir Mils	4,108.69
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	1.6	Sq Mils	3,226.97
		Sq MM	2.08197
		Sq Cm	0.0208197
Approximate SWG Number	15	Sq Inches	0.003227059

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0641	1.6281
Nominal Coated Single Build Wire Diameter	0.0659	1.6739
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0745	1.8931
Width of Slot for Machine Insertion	0.0638	1.6205
Length of Cut for Radius Cut	0.2544	6.4628
Depth of Cut for Radius Cut	0.2387	6.0627
Depth of Cut for Non-Radius Cut	0.2119	5.3823
Fusing Electrode Tip Diameter	0.0923	2.3448
Orient Blade Thickness	0.0622	1.5800
Stuffing Blade Thickness	0.0574	1.4585
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.2090	5.3095
Mimumun Tang Width	0.0660	1.6770
Minimum Tang Thickness	0.0629	1.5977
Minimum Tang Radius	0.0373	0.9485
Height of Tang Projection for Aluminum Wire ± 5%	0.0459	1.1669

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	14.5	Cir Mils	3,660.14
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	1.5	Sq Mils	2,874.68
Approximate SWG Number	16	Sq MM	1.85468
		Sq Cm	0.0185468
		Sq Inches	0.002874760

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	Inches	Millimeters
Nominal Bare Diameter	0.0605	1.5367
Nominal Coated Single Build Wire Diameter	0.0623	1.5824
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0705	1.7897
Width of Slot for Machine Insertion	0.0602	1.5291
Length of Cut for Radius Cut	0.2405	6.1097
Depth of Cut for Radius Cut	0.2257	5.7315
Depth of Cut for Non-Radius Cut	0.2003	5.0883
Fusing Electrode Tip Diameter	0.0873	2.2167
Orient Blade Thickness	0.0587	1.4909
Stuffing Blade Thickness	0.0542	1.3762
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1976	5.0194
Mimumun Tang Width	0.0623	1.5828
Minimum Tang Thickness	0.0594	1.5080
Minimum Tang Radius	0.0353	0.8967
Height of Tang Projection for Aluminum Wire ± 5%	0.0434	1.1014

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	15	Cir Mils	3,260.32	AWG SYSTEM
		Sq Mils	2,560.65	
Approximate IEC* Standard Metric Size	1.55	Sq MM	1.65208	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0165208	
Approximate SWG Number	16	Sq Inches	0.002560726	

	Inches	Millimeters
Nominal Bare Diameter	0.0571	1.4503
Nominal Coated Single Build Wire Diameter	0.0588	1.4935
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0665	1.6892
Width of Slot for Machine Insertion	0.0568	1.4427
Length of Cut for Radius Cut	0.2270	5.7665
Depth of Cut for Radius Cut	0.2130	5.4095
Depth of Cut for Non-Radius Cut	0.1891	4.8024
Fusing Electrode Tip Diameter	0.0824	2.0922
Orient Blade Thickness	0.0554	1.4067
Stuffing Blade Thickness	0.0511	1.2984
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1865	4.7374
Mimumun Tang Width	0.0588	1.4939
Minimum Tang Thickness	0.0560	1.4232
Minimum Tang Radius	0.0333	0.8463
Height of Tang Projection for Aluminum Wire ± 5%	0.0409	1.0395

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	15.5	Cir Mils	2,905.13
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	1.36	Sq Mils	2,281.69
Approximate SWG Number	16	Sq MM	1.47210
		Sq Cm	0.0147210
		Sq Inches	0.002281752

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	Inches	Millimeters
Nominal Bare Diameter	0.0539	1.3691
Nominal Coated Single Build Wire Diameter	0.0556	1.4122
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0629	1.5972
Width of Slot for Machine Insertion	0.0536	1.3614
Length of Cut for Radius Cut	0.2147	5.4527
Depth of Cut for Radius Cut	0.2014	5.1151
Depth of Cut for Non-Radius Cut	0.1788	4.5411
Fusing Electrode Tip Diameter	0.0779	1.9783
Orient Blade Thickness	0.0523	1.3274
Stuffing Blade Thickness	0.0482	1.2253
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1764	4.4796
Mimumun Tang Width	0.0555	1.4101
Minimum Tang Thickness	0.0529	1.3435
Minimum Tang Radius	0.0315	0.8002
Height of Tang Projection for Aluminum Wire ± 5%	0.0386	0.9812

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	16	Cir Mils	2,580.57	AWG SYSTEM
		Sq Mils	2,026.78	
Approximate IEC* Standard Metric Size	1.30	Sq MM	1.30763	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0130763	
Approximate SWG Number	17	Sq Inches	0.002026835	

	Inches	Millimeters
Nominal Bare Diameter	0.0508	1.2903
Nominal Coated Single Build Wire Diameter	0.0524	1.3310
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0593	1.5053
Width of Slot for Machine Insertion	0.0505	1.2827
Length of Cut for Radius Cut	0.2023	5.1388
Depth of Cut for Radius Cut	0.1898	4.8207
Depth of Cut for Non-Radius Cut	0.1685	4.2797
Fusing Electrode Tip Diameter	0.0734	1.8645
Orient Blade Thickness	0.0492	1.2506
Stuffing Blade Thickness	0.0455	1.1544
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1662	4.2218
Mimumun Tang Width	0.0523	1.3290
Minimum Tang Thickness	0.0499	1.2662
Minimum Tang Radius	0.0297	0.7542
Height of Tang Projection for Aluminum Wire ± 5%	0.0364	0.9248

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	16.5	Cir Mils	2,303.93
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	1.2	Sq Mils	1,809.51
Approximate SWG Number	17	Sq MM	1.16746
		Sq Cm	0.0116746
		Sq Inches	0.001809562

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	Inches	Millimeters
Nominal Bare Diameter	0.0480	1.2192
Nominal Coated Single Build Wire Diameter	0.0496	1.2598
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0561	1.4249
Width of Slot for Machine Insertion	0.0477	1.2116
Length of Cut for Radius Cut	0.1915	4.8642
Depth of Cut for Radius Cut	0.1797	4.5631
Depth of Cut for Non-Radius Cut	0.1595	4.0510
Fusing Electrode Tip Diameter	0.0695	1.7649
Orient Blade Thickness	0.0465	1.1813
Stuffing Blade Thickness	0.0429	1.0904
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1573	3.9962
Mimumun Tang Width	0.0494	1.2558
Minimum Tang Thickness	0.0471	1.1964
Minimum Tang Radius	0.0281	0.7139
Height of Tang Projection for Aluminum Wire ± 5%	0.0344	0.8738

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	17	Cir Mils	2,052.03
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	1.18	Sq Mils	1,611.67
		Sq MM	1.03981
Approximate SWG Number	18	Sq Cm	0.0103981
		Sq Inches	0.001611711

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0453	1.1506
Nominal Coated Single Build Wire Diameter	0.0469	1.1913
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0530	1.3473
Width of Slot for Machine Insertion	0.0450	1.1430
Length of Cut for Radius Cut	0.1811	4.5995
Depth of Cut for Radius Cut	0.1699	4.3147
Depth of Cut for Non-Radius Cut	0.1508	3.8305
Fusing Electrode Tip Diameter	0.0657	1.6688
Orient Blade Thickness	0.0439	1.1144
Stuffing Blade Thickness	0.0405	1.0287
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1488	3.7787
Mimumun Tang Width	0.0467	1.1851
Minimum Tang Thickness	0.0445	1.1291
Minimum Tang Radius	0.0266	0.6750
Height of Tang Projection for Aluminum Wire ± 5%	0.0325	0.8246

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	17.5	Cir Mils	1,823.24
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	1.0	Sq Mils	1,431.97
Approximate SWG Number	18	Sq MM	0.92388
		Sq Cm	0.0092388
		Sq Inches	0.001432012

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0427	1.0846
Nominal Coated Single Build Wire Diameter	0.0443	1.1252
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0501	1.2726
Width of Slot for Machine Insertion	0.0424	1.0770
Length of Cut for Radius Cut	0.1710	4.3445
Depth of Cut for Radius Cut	0.1605	4.0755
Depth of Cut for Non-Radius Cut	0.1424	3.6181
Fusing Electrode Tip Diameter	0.0621	1.5763
Orient Blade Thickness	0.0413	1.0500
Stuffing Blade Thickness	0.0382	0.9693
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1405	3.5692
Mimumun Tang Width	0.0440	1.1171
Minimum Tang Thickness	0.0419	1.0643
Minimum Tang Radius	0.0251	0.6376
Height of Tang Projection for Aluminum Wire ± 5%	0.0306	0.7773

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	18	Cir Mils	1,624.04
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	1.0	Sq Mils	1,275.52
Approximate SWG Number	19	Sq MM	0.82294
		Sq Cm	0.0082294
		Sq Inches	0.001275560

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0403	1.0236
Nominal Coated Single Build Wire Diameter	0.0418	1.0617
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0473	1.2008
Width of Slot for Machine Insertion	0.0400	1.0160
Length of Cut for Radius Cut	0.1614	4.0993
Depth of Cut for Radius Cut	0.1514	3.8455
Depth of Cut for Non-Radius Cut	0.1344	3.4140
Fusing Electrode Tip Diameter	0.0586	1.4873
Orient Blade Thickness	0.0390	0.9906
Stuffing Blade Thickness	0.0360	0.9144
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1326	3.3678
Mimimun Tang Width	0.0415	1.0543
Minimum Tang Thickness	0.0395	1.0045
Minimum Tang Radius	0.0237	0.6016
Height of Tang Projection for Aluminum Wire ± 5%	0.0289	0.7336

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	18.5	Cir Mils	1,443.96
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.95	Sq Mils	1,134.09
Approximate SWG Number	19	Sq MM	0.73169
		Sq Cm	0.0073169
		Sq Inches	0.001134118

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0380	0.9652
Nominal Coated Single Build Wire Diameter	0.0395	1.0033
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0447	1.1347
Width of Slot for Machine Insertion	0.0377	0.9576
Length of Cut for Radius Cut	0.1525	3.8737
Depth of Cut for Radius Cut	0.1431	3.6340
Depth of Cut for Non-Radius Cut	0.1270	3.2261
Fusing Electrode Tip Diameter	0.0553	1.4055
Orient Blade Thickness	0.0368	0.9336
Stuffing Blade Thickness	0.0339	0.8618
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1253	3.1825
Mimimun Tang Width	0.0391	0.9942
Minimum Tang Thickness	0.0373	0.9472
Minimum Tang Radius	0.0224	0.5685
Height of Tang Projection for Aluminum Wire ± 5%	0.0272	0.6918

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	19	Cir Mils	1,288.77
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.90	Sq Mils	1,012.20
		Sq MM	0.65305
Approximate SWG Number	20	Sq Cm	0.0065305
		Sq Inches	0.001012231

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0359	0.9119
Nominal Coated Single Build Wire Diameter	0.0373	0.9474
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0422	1.0715
Width of Slot for Machine Insertion	0.0356	0.9042
Length of Cut for Radius Cut	0.1440	3.6580
Depth of Cut for Radius Cut	0.1351	3.4316
Depth of Cut for Non-Radius Cut	0.1199	3.0464
Fusing Electrode Tip Diameter	0.0523	1.3272
Orient Blade Thickness	0.0347	0.8816
Stuffing Blade Thickness	0.0320	0.8138
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1183	3.0052
Mimumun Tang Width	0.0370	0.9392
Minimum Tang Thickness	0.0352	0.8948
Minimum Tang Radius	0.0211	0.5369
Height of Tang Projection for Aluminum Wire ± 5%	0.0257	0.6535

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	19.5	Cir Mils	1,149.18
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.85	Sq Mils	902.56
		Sq MM	0.58231
Approximate SWG Number	20	Sq Cm	0.0058231
		Sq Inches	0.000902590

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0339	0.8611
Nominal Coated Single Build Wire Diameter	0.0354	0.8992
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0400	1.0169
Width of Slot for Machine Insertion	0.0336	0.8534
Length of Cut for Radius Cut	0.1367	3.4717
Depth of Cut for Radius Cut	0.1282	3.2568
Depth of Cut for Non-Radius Cut	0.1138	2.8912
Fusing Electrode Tip Diameter	0.0496	1.2596
Orient Blade Thickness	0.0328	0.8321
Stuffing Blade Thickness	0.0302	0.7681
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1123	2.8521
Mimumun Tang Width	0.0349	0.8869
Minimum Tang Thickness	0.0333	0.8450
Minimum Tang Radius	0.0201	0.5095
Height of Tang Projection for Aluminum Wire ± 5%	0.0243	0.6171

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	20	Cir Mils	1,023.97
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.80	Sq Mils	804.23
		Sq MM	0.51887
Approximate SWG Number	21	Sq Cm	0.0051887
		Sq Inches	0.000804250

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0320	0.8128
Nominal Coated Single Build Wire Diameter	0.0334	0.8484
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0378	0.9595
Width of Slot for Machine Insertion	0.0317	0.8052
Length of Cut for Radius Cut	0.1290	3.2755
Depth of Cut for Radius Cut	0.1210	3.0728
Depth of Cut for Non-Radius Cut	0.1074	2.7279
Fusing Electrode Tip Diameter	0.0468	1.1884
Orient Blade Thickness	0.0309	0.7851
Stuffing Blade Thickness	0.0285	0.7247
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1059	2.6910
Mimumun Tang Width	0.0330	0.8372
Minimum Tang Thickness	0.0314	0.7976
Minimum Tang Radius	0.0189	0.4807
Height of Tang Projection for Aluminum Wire ± 5%	0.0229	0.5825

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	20.5	Cir Mils	912.01	AWG SYSTEM
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.76	Sq Mils	716.30	
		Sq MM	0.46214	
Approximate SWG Number	21	Sq Cm	0.0046214	
		Sq Inches	0.000716316	

	Inches	Millimeters
Nominal Bare Diameter	0.0302	0.7671
Nominal Coated Single Build Wire Diameter	0.0316	0.8026
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0357	0.9078
Width of Slot for Machine Insertion	0.0299	0.7595
Length of Cut for Radius Cut	0.1220	3.0990
Depth of Cut for Radius Cut	0.1145	2.9072
Depth of Cut for Non-Radius Cut	0.1016	2.5809
Fusing Electrode Tip Diameter	0.0443	1.1244
Orient Blade Thickness	0.0292	0.7405
Stuffing Blade Thickness	0.0269	0.6835
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.1002	2.5460
Mimumun Tang Width	0.0311	0.7901
Minimum Tang Thickness	0.0296	0.7527
Minimum Tang Radius	0.0179	0.4548
Height of Tang Projection for Aluminum Wire ± 5%	0.0216	0.5498

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	21	Cir Mils	812.23
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.75	Sq Mils	637.92
		Sq MM	0.41157
Approximate SWG Number	22	Sq Cm	0.0041157
		Sq Inches	0.000637941

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0285	0.7239
Nominal Coated Single Build Wire Diameter	0.0298	0.7569
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0337	0.8561
Width of Slot for Machine Insertion	0.0282	0.7163
Length of Cut for Radius Cut	0.1151	2.9225
Depth of Cut for Radius Cut	0.1079	2.7416
Depth of Cut for Non-Radius Cut	0.0958	2.4339
Fusing Electrode Tip Diameter	0.0417	1.0603
Orient Blade Thickness	0.0275	0.6984
Stuffing Blade Thickness	0.0254	0.6447
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0945	2.4010
Mimumun Tang Width	0.0294	0.7456
Minimum Tang Thickness	0.0280	0.7104
Minimum Tang Radius	0.0169	0.4289
Height of Tang Projection for Aluminum Wire ± 5%	0.0204	0.5188

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	21.5	Cir Mils	723.59	AWG SYSTEM
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.65	Sq Mils	568.31	
		Sq MM	0.36666	
Approximate SWG Number	22	Sq Cm	0.0036666	
		Sq Inches	0.000568323	

	Inches	Millimeters
Nominal Bare Diameter	0.0269	0.6833
Nominal Coated Single Build Wire Diameter	0.0282	0.7163
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0319	0.8101
Width of Slot for Machine Insertion	0.0266	0.6756
Length of Cut for Radius Cut	0.1089	2.7656
Depth of Cut for Radius Cut	0.1021	2.5944
Depth of Cut for Non-Radius Cut	0.0907	2.3032
Fusing Electrode Tip Diameter	0.0395	1.0034
Orient Blade Thickness	0.0259	0.6587
Stuffing Blade Thickness	0.0239	0.6081
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0895	2.2720
Mimumun Tang Width	0.0277	0.7038
Minimum Tang Thickness	0.0264	0.6705
Minimum Tang Radius	0.0160	0.4059
Height of Tang Projection for Aluminum Wire ± 5%	0.0193	0.4897

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	22	Cir Mils	640.07
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.63	Sq Mils	502.71
		Sq MM	0.32434
Approximate SWG Number	23	Sq Cm	0.0032434
		Sq Inches	0.000502727

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0253	0.6426
Nominal Coated Single Build Wire Diameter	0.0266	0.6756
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0301	0.7641
Width of Slot for Machine Insertion	0.0250	0.6350
Length of Cut for Radius Cut	0.1027	2.6086
Depth of Cut for Radius Cut	0.0963	2.4472
Depth of Cut for Non-Radius Cut	0.0855	2.1725
Fusing Electrode Tip Diameter	0.0373	0.9465
Orient Blade Thickness	0.0244	0.6191
Stuffing Blade Thickness	0.0225	0.5715
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0844	2.1431
Mimumun Tang Width	0.0261	0.6619
Minimum Tang Thickness	0.0248	0.6306
Minimum Tang Radius	0.0151	0.3829
Height of Tang Projection for Aluminum Wire ± 5%	0.0181	0.4606

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	22.5	Cir Mils	571.19	AWG SYSTEM
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.6	Sq Mils	448.62	
		Sq MM	0.28944	
Approximate SWG Number	23	Sq Cm	0.0028944	
		Sq Inches	0.000448628	

	Inches	Millimeters
Nominal Bare Diameter	0.0239	0.6071
Nominal Coated Single Build Wire Diameter	0.0252	0.6401
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0285	0.7239
Width of Slot for Machine Insertion	0.0236	0.5994
Length of Cut for Radius Cut	0.0973	2.4713
Depth of Cut for Radius Cut	0.0913	2.3184
Depth of Cut for Non-Radius Cut	0.0810	2.0582
Fusing Electrode Tip Diameter	0.0353	0.8967
Orient Blade Thickness	0.0230	0.5845
Stuffing Blade Thickness	0.0212	0.5395
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0799	2.0303
Mimumun Tang Width	0.0246	0.6253
Minimum Tang Thickness	0.0235	0.5957
Minimum Tang Radius	0.0143	0.3627
Height of Tang Projection for Aluminum Wire ± 5%	0.0171	0.4351

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	23	Cir Mils	510.75
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.56	Sq Mils	401.14
		Sq MM	0.25881
Approximate SWG Number	24	Sq Cm	0.0025881
		Sq Inches	0.000401151

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0226	0.5740
Nominal Coated Single Build Wire Diameter	0.0239	0.6071
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0270	0.6866
Width of Slot for Machine Insertion	0.0223	0.5664
Length of Cut for Radius Cut	0.0923	2.3439
Depth of Cut for Radius Cut	0.0866	2.1988
Depth of Cut for Non-Radius Cut	0.0769	1.9520
Fusing Electrode Tip Diameter	0.0335	0.8504
Orient Blade Thickness	0.0217	0.5523
Stuffing Blade Thickness	0.0201	0.5098
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0758	1.9256
Mimumun Tang Width	0.0233	0.5913
Minimum Tang Thickness	0.0222	0.5633
Minimum Tang Radius	0.0135	0.3440
Height of Tang Projection for Aluminum Wire ± 5%	0.0162	0.4114

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	23.5	Cir Mils	453.68	AWG SYSTEM
		Sq Mils	356.32	
Approximate IEC* Standard Metric Size	0.55	Sq MM	0.22989	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0022989	
Approximate SWG Number	24	Sq Inches	0.000356328	

	Inches	Millimeters
Nominal Bare Diameter	0.0213	0.5410
Nominal Coated Single Build Wire Diameter	0.0226	0.5740
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0256	0.6492
Width of Slot for Machine Insertion	0.0210	0.5334
Length of Cut for Radius Cut	0.0873	2.2164
Depth of Cut for Radius Cut	0.0819	2.0792
Depth of Cut for Non-Radius Cut	0.0727	1.8458
Fusing Electrode Tip Diameter	0.0317	0.8041
Orient Blade Thickness	0.0205	0.5201
Stuffing Blade Thickness	0.0189	0.4801
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0717	1.8209
Mimumun Tang Width	0.0219	0.5573
Minimum Tang Thickness	0.0209	0.5309
Minimum Tang Radius	0.0128	0.3253
Height of Tang Projection for Aluminum Wire ± 5%	0.0153	0.3877

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	24	Cir Mils	404.00
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.50	Sq Mils	317.30
		Sq MM	0.20472
Approximate SWG Number	25	Sq Cm	0.0020472
		Sq Inches	0.000317309

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0201	0.5105
Nominal Coated Single Build Wire Diameter	0.0213	0.5410
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0241	0.6119
Width of Slot for Machine Insertion	0.0198	0.5029
Length of Cut for Radius Cut	0.0822	2.0889
Depth of Cut for Radius Cut	0.0771	1.9596
Depth of Cut for Non-Radius Cut	0.0685	1.7396
Fusing Electrode Tip Diameter	0.0298	0.7579
Orient Blade Thickness	0.0193	0.4903
Stuffing Blade Thickness	0.0178	0.4526
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0676	1.7161
Mimimun Tang Width	0.0207	0.5259
Minimum Tang Thickness	0.0197	0.5010
Minimum Tang Radius	0.0121	0.3066
Height of Tang Projection for Aluminum Wire ± 5%	0.0144	0.3659

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	24.5	Cir Mils	360.99	AWG SYSTEM
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.48	Sq Mils	283.52	
		Sq MM	0.18292	
Approximate SWG Number	25	Sq Cm	0.0018292	
		Sq Inches	0.000283529	

	Inches	Millimeters
Nominal Bare Diameter	0.0190	0.4826
Nominal Coated Single Build Wire Diameter	0.0202	0.5131
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0228	0.5803
Width of Slot for Machine Insertion	0.0187	0.4750
Length of Cut for Radius Cut	0.0780	1.9810
Depth of Cut for Radius Cut	0.0732	1.8584
Depth of Cut for Non-Radius Cut	0.0650	1.6498
Fusing Electrode Tip Diameter	0.0283	0.7188
Orient Blade Thickness	0.0182	0.4631
Stuffing Blade Thickness	0.0168	0.4275
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0641	1.6275
Mimumun Tang Width	0.0196	0.4971
Minimum Tang Thickness	0.0186	0.4736
Minimum Tang Radius	0.0114	0.2907
Height of Tang Projection for Aluminum Wire ± 5%	0.0136	0.3459

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	25	Cir Mils	320.40
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.45	Sq Mils	251.64
		Sq MM	0.16235
Approximate SWG Number	26	Sq Cm	0.0016235
		Sq Inches	0.000251650

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0179	0.4547
Nominal Coated Single Build Wire Diameter	0.0190	0.4826
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0215	0.5458
Width of Slot for Machine Insertion	0.0176	0.4470
Length of Cut for Radius Cut	0.0734	1.8633
Depth of Cut for Radius Cut	0.0688	1.7480
Depth of Cut for Non-Radius Cut	0.0611	1.5518
Fusing Electrode Tip Diameter	0.0266	0.6761
Orient Blade Thickness	0.0172	0.4359
Stuffing Blade Thickness	0.0158	0.4023
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0603	1.5308
Mimumun Tang Width	0.0184	0.4683
Minimum Tang Thickness	0.0176	0.4462
Minimum Tang Radius	0.0108	0.2735
Height of Tang Projection for Aluminum Wire ± 5%	0.0128	0.3259

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	25.5	Cir Mils	285.60	AWG SYSTEM
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.43	Sq Mils	224.31	
		Sq MM	0.14472	
Approximate SWG Number	26	Sq Cm	0.0014472	
		Sq Inches	0.000224318	

	Inches	Millimeters
Nominal Bare Diameter	0.0169	0.4293
Nominal Coated Single Build Wire Diameter	0.0180	0.4572
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0204	0.5171
Width of Slot for Machine Insertion	0.0166	0.4216
Length of Cut for Radius Cut	0.0695	1.7652
Depth of Cut for Radius Cut	0.0652	1.6560
Depth of Cut for Non-Radius Cut	0.0579	1.4701
Fusing Electrode Tip Diameter	0.0252	0.6405
Orient Blade Thickness	0.0162	0.4111
Stuffing Blade Thickness	0.0149	0.3795
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0571	1.4502
Mimumun Tang Width	0.0174	0.4421
Minimum Tang Thickness	0.0166	0.4212
Minimum Tang Radius	0.0102	0.2591
Height of Tang Projection for Aluminum Wire ± 5%	0.0121	0.3077

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	26	Cir Mils	252.80	AWG SYSTEM
		Sq Mils	198.55	
Approximate IEC* Standard Metric Size	0.40	Sq MM	0.12810	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0012810	
Approximate SWG Number	27	Sq Inches	0.000198557	

	Inches	Millimeters
Nominal Bare Diameter	0.0159	0.4039
Nominal Coated Single Build Wire Diameter	0.0170	0.4318
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0192	0.4884
Width of Slot for Machine Insertion	0.0156	0.3962
Length of Cut for Radius Cut	0.0656	1.6672
Depth of Cut for Radius Cut	0.0616	1.5640
Depth of Cut for Non-Radius Cut	0.0547	1.3885
Fusing Electrode Tip Diameter	0.0238	0.6049
Orient Blade Thickness	0.0152	0.3863
Stuffing Blade Thickness	0.0140	0.3566
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0539	1.3697
Mimumun Tang Width	0.0164	0.4160
Minimum Tang Thickness	0.0156	0.3963
Minimum Tang Radius	0.0096	0.2447
Height of Tang Projection for Aluminum Wire ± 5%	0.0114	0.2894

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	26.5	Cir Mils	224.99	AWG SYSTEM
		Sq Mils	176.71	
Approximate IEC* Standard Metric Size	0.38	Sq MM	0.11401	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0011401	
Approximate SWG Number	27	Sq Inches	0.000176715	

	Inches	Millimeters
Nominal Bare Diameter	0.0150	0.3810
Nominal Coated Single Build Wire Diameter	0.0161	0.4089
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0182	0.4625
Width of Slot for Machine Insertion	0.0147	0.3734
Length of Cut for Radius Cut	0.0622	1.5789
Depth of Cut for Radius Cut	0.0583	1.4812
Depth of Cut for Non-Radius Cut	0.0518	1.3149
Fusing Electrode Tip Diameter	0.0226	0.5729
Orient Blade Thickness	0.0143	0.3640
Stuffing Blade Thickness	0.0132	0.3360
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0511	1.2972
Mimumun Tang Width	0.0155	0.3924
Minimum Tang Thickness	0.0147	0.3739
Minimum Tang Radius	0.0091	0.2317
Height of Tang Projection for Aluminum Wire ± 5%	0.0108	0.2731

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	27	Cir Mils	201.63	AWG SYSTEM
		Sq Mils	158.36	
Approximate IEC* Standard Metric Size	0.355	Sq MM	0.10217	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0010217	
Approximate SWG Number	28	Sq Inches	0.000158368	

	Inches	Millimeters
Nominal Bare Diameter	0.0142	0.3607
Nominal Coated Single Build Wire Diameter	0.0153	0.3886
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0173	0.4395
Width of Slot for Machine Insertion	0.0139	0.3531
Length of Cut for Radius Cut	0.0591	1.5005
Depth of Cut for Radius Cut	0.0554	1.4076
Depth of Cut for Non-Radius Cut	0.0492	1.2496
Fusing Electrode Tip Diameter	0.0214	0.5444
Orient Blade Thickness	0.0136	0.3442
Stuffing Blade Thickness	0.0125	0.3178
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0485	1.2327
Mimumun Tang Width	0.0146	0.3715
Minimum Tang Thickness	0.0139	0.3539
Minimum Tang Radius	0.0087	0.2202
Height of Tang Projection for Aluminum Wire ± 5%	0.0102	0.2585

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	27.5	Cir Mils	179.55
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.350	Sq Mils	141.02
		Sq MM	0.09098
Approximate SWG Number	29	Sq Cm	0.0009098
		Sq Inches	0.000141026

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0134	0.3404
Nominal Coated Single Build Wire Diameter	0.0145	0.3683
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0164	0.4165
Width of Slot for Machine Insertion	0.0131	0.3327
Length of Cut for Radius Cut	0.0560	1.4220
Depth of Cut for Radius Cut	0.0525	1.3340
Depth of Cut for Non-Radius Cut	0.0466	1.1843
Fusing Electrode Tip Diameter	0.0203	0.5159
Orient Blade Thickness	0.0128	0.3244
Stuffing Blade Thickness	0.0118	0.2995
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0460	1.1682
Mimumun Tang Width	0.0138	0.3506
Minimum Tang Thickness	0.0131	0.3340
Minimum Tang Radius	0.0082	0.2087
Height of Tang Projection for Aluminum Wire ± 5%	0.0096	0.2439

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	28	Cir Mils	158.76
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.315	Sq Mils	124.69
		Sq MM	0.08045
Approximate SWG Number	30	Sq Cm	0.0008045
		Sq Inches	0.000124690

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0126	0.3200
Nominal Coated Single Build Wire Diameter	0.0137	0.3480
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0155	0.3936
Width of Slot for Machine Insertion	0.0123	0.3124
Length of Cut for Radius Cut	0.0529	1.3436
Depth of Cut for Radius Cut	0.0496	1.2604
Depth of Cut for Non-Radius Cut	0.0441	1.1189
Fusing Electrode Tip Diameter	0.0192	0.4875
Orient Blade Thickness	0.0120	0.3046
Stuffing Blade Thickness	0.0111	0.2812
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0435	1.1038
Mimumun Tang Width	0.0130	0.3296
Minimum Tang Thickness	0.0124	0.3141
Minimum Tang Radius	0.0078	0.1972
Height of Tang Projection for Aluminum Wire ± 5%	0.0090	0.2294

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	28.5	Cir Mils	141.61	AWG SYSTEM
		Sq Mils	111.22	
Approximate IEC* Standard Metric Size	0.300	Sq MM	0.07176	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0007176	
Approximate SWG Number	30	Sq Inches	0.000111220	

	Inches	Millimeters
Nominal Bare Diameter	0.0119	0.3023
Nominal Coated Single Build Wire Diameter	0.0130	0.3302
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0147	0.3735
Width of Slot for Machine Insertion	0.0116	0.2946
Length of Cut for Radius Cut	0.0502	1.2749
Depth of Cut for Radius Cut	0.0471	1.1960
Depth of Cut for Non-Radius Cut	0.0418	1.0618
Fusing Electrode Tip Diameter	0.0182	0.4626
Orient Blade Thickness	0.0113	0.2873
Stuffing Blade Thickness	0.0104	0.2652
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0412	1.0474
Mimumun Tang Width	0.0123	0.3113
Minimum Tang Thickness	0.0117	0.2966
Minimum Tang Radius	0.0074	0.1871
Height of Tang Projection for Aluminum Wire ± 5%	0.0085	0.2166

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	29	Cir Mils	127.69
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.280	Sq Mils	100.28
		Sq MM	0.06470
		Sq Cm	0.0006470
Approximate SWG Number	31	Sq Inches	0.000100288

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0113	0.2870
Nominal Coated Single Build Wire Diameter	0.0123	0.3124
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0139	0.3533
Width of Slot for Machine Insertion	0.0110	0.2794
Length of Cut for Radius Cut	0.0475	1.2063
Depth of Cut for Radius Cut	0.0446	1.1316
Depth of Cut for Non-Radius Cut	0.0396	1.0046
Fusing Electrode Tip Diameter	0.0172	0.4377
Orient Blade Thickness	0.0107	0.2724
Stuffing Blade Thickness	0.0099	0.2515
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0390	0.9910
Mimumun Tang Width	0.0116	0.2956
Minimum Tang Thickness	0.0111	0.2817
Minimum Tang Radius	0.0070	0.1770
Height of Tang Projection for Aluminum Wire ± 5%	0.0081	0.2057

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	29.5	Cir Mils	112.36
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.270	Sq Mils	88.25
		Sq MM	0.05693
Approximate SWG Number	32	Sq Cm	0.0005693
		Sq Inches	0.000088248

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0106	0.2692
Nominal Coated Single Build Wire Diameter	0.0116	0.2946
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0131	0.3332
Width of Slot for Machine Insertion	0.0103	0.2616
Length of Cut for Radius Cut	0.0448	1.1376
Depth of Cut for Radius Cut	0.0420	1.0672
Depth of Cut for Non-Radius Cut	0.0373	0.9474
Fusing Electrode Tip Diameter	0.0162	0.4127
Orient Blade Thickness	0.0100	0.2551
Stuffing Blade Thickness	0.0093	0.2355
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0368	0.9346
Mimumun Tang Width	0.0109	0.2773
Minimum Tang Thickness	0.0104	0.2642
Minimum Tang Radius	0.0066	0.1670
Height of Tang Projection for Aluminum Wire ± 5%	0.0076	0.1930

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	30	Cir Mils	100.00
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.250	Sq Mils	78.54
Approximate SWG Number	33	Sq MM	0.05067
		Sq Cm	0.0005067
		Sq Inches	0.000078540

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0100	0.2540
Nominal Coated Single Build Wire Diameter	0.0109	0.2769
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0123	0.3131
Width of Slot for Machine Insertion	0.0097	0.2464
Length of Cut for Radius Cut	0.0421	1.0690
Depth of Cut for Radius Cut	0.0395	1.0028
Depth of Cut for Non-Radius Cut	0.0350	0.8902
Fusing Electrode Tip Diameter	0.0153	0.3878
Orient Blade Thickness	0.0095	0.2402
Stuffing Blade Thickness	0.0087	0.2217
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0346	0.8782
Mimumun Tang Width	0.0103	0.2616
Minimum Tang Thickness	0.0098	0.2493
Minimum Tang Radius	0.0062	0.1569
Height of Tang Projection for Aluminum Wire ± 5%	0.0072	0.1820

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	30.5	Cir Mils	90.25	AWG SYSTEM
		Sq Mils	70.88	
Approximate IEC* Standard Metric Size	0.240	Sq MM	0.04573	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0004573	
Approximate SWG Number	33	Sq Inches	0.000070882	

	Inches	Millimeters
Nominal Bare Diameter	0.0095	0.2413
Nominal Coated Single Build Wire Diameter	0.0104	0.2642
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0118	0.2988
Width of Slot for Machine Insertion	0.0092	0.2337
Length of Cut for Radius Cut	0.0402	1.0199
Depth of Cut for Radius Cut	0.0377	0.9568
Depth of Cut for Non-Radius Cut	0.0334	0.8494
Fusing Electrode Tip Diameter	0.0146	0.3701
Orient Blade Thickness	0.0090	0.2278
Stuffing Blade Thickness	0.0083	0.2103
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0330	0.8379
Mimumun Tang Width	0.0098	0.2485
Minimum Tang Thickness	0.0093	0.2368
Minimum Tang Radius	0.0059	0.1497
Height of Tang Projection for Aluminum Wire ± 5%	0.0068	0.1729

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	31	Cir Mils	79.21	AWG SYSTEM
		Sq Mils	62.21	
Approximate IEC* Standard Metric Size	0.224	Sq MM	0.04014	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0004014	
Approximate SWG Number	34	Sq Inches	0.000062212	

	Inches	Millimeters
Nominal Bare Diameter	0.0089	0.2261
Nominal Coated Single Build Wire Diameter	0.0097	0.2464
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0110	0.2787
Width of Slot for Machine Insertion	0.0086	0.2184
Length of Cut for Radius Cut	0.0375	0.9513
Depth of Cut for Radius Cut	0.0351	0.8924
Depth of Cut for Non-Radius Cut	0.0312	0.7922
Fusing Electrode Tip Diameter	0.0136	0.3451
Orient Blade Thickness	0.0084	0.2130
Stuffing Blade Thickness	0.0077	0.1966
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0308	0.7815
Mimumun Tang Width	0.0092	0.2328
Minimum Tang Thickness	0.0087	0.2218
Minimum Tang Radius	0.0055	0.1396
Height of Tang Projection for Aluminum Wire ± 5%	0.0064	0.1620

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	31.5	Cir Mils	70.56
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.215	Sq Mils	55.42
		Sq MM	0.03575
Approximate SWG Number	34	Sq Cm	0.0003575
		Sq Inches	0.000055418

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0084	0.2134
Nominal Coated Single Build Wire Diameter	0.0092	0.2337
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0104	0.2643
Width of Slot for Machine Insertion	0.0081	0.2057
Length of Cut for Radius Cut	0.0355	0.9022
Depth of Cut for Radius Cut	0.0333	0.8464
Depth of Cut for Non-Radius Cut	0.0296	0.7514
Fusing Electrode Tip Diameter	0.0129	0.3274
Orient Blade Thickness	0.0079	0.2006
Stuffing Blade Thickness	0.0073	0.1852
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0292	0.7412
Mimimun Tang Width	0.0087	0.2198
Minimum Tang Thickness	0.0082	0.2094
Minimum Tang Radius	0.0052	0.1324
Height of Tang Projection for Aluminum Wire ± 5%	0.0060	0.1529

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	32	Cir Mils	64.00	AWG SYSTEM
		Sq Mils	50.26	
Approximate IEC* Standard Metric Size	0.20	Sq MM	0.03243	
*International Electrotechnical Commission		Sq Cm	0.0003243	
Approximate SWG Number	35	Sq Inches	0.000050266	

	Inches	Millimeters
Nominal Bare Diameter	0.0080	0.2032
Nominal Coated Single Build Wire Diameter	0.0088	0.2235
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0100	0.2528
Width of Slot for Machine Insertion	0.0077	0.1956
Length of Cut for Radius Cut	0.0340	0.8630
Depth of Cut for Radius Cut	0.0319	0.8096
Depth of Cut for Non-Radius Cut	0.0283	0.7187
Fusing Electrode Tip Diameter	0.0123	0.3131
Orient Blade Thickness	0.0075	0.1907
Stuffing Blade Thickness	0.0069	0.1760
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0279	0.7090
Mimumun Tang Width	0.0082	0.2093
Minimum Tang Thickness	0.0079	0.1994
Minimum Tang Radius	0.0050	0.1267
Height of Tang Projection for Aluminum Wire ± 5%	0.0057	0.1456

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	32.5	Cir Mils	56.25	AWG SYSTEM
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.190	Sq Mils	44.18	
		Sq MM	0.02850	
Approximate SWG Number	35	Sq Cm	0.0002850	
		Sq Inches	0.000044179	

	Inches	Millimeters
Nominal Bare Diameter	0.0075	0.1905
Nominal Coated Single Build Wire Diameter	0.0083	0.2108
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0094	0.2384
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0320	0.8140
Depth of Cut for Radius Cut	0.0301	0.7636
Depth of Cut for Non-Radius Cut	0.0267	0.6779
Fusing Electrode Tip Diameter	0.0116	0.2953
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0263	0.6687
Mimimun Tang Width	0.0077	0.1962
Minimum Tang Thickness	0.0074	0.1869
Minimum Tang Radius	0.0047	0.1195
Height of Tang Projection for Aluminum Wire ± 5%	0.0054	0.1365

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	33	Cir Mils	50.41
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.180	Sq Mils	39.59
		Sq MM	0.02554
Approximate SWG Number	36	Sq Cm	0.0002554
		Sq Inches	0.000039592

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0071	0.1803
Nominal Coated Single Build Wire Diameter	0.0078	0.1981
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0088	0.2241
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0301	0.7649
Depth of Cut for Radius Cut	0.0283	0.7176
Depth of Cut for Non-Radius Cut	0.0251	0.6371
Fusing Electrode Tip Diameter	0.0109	0.2775
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0247	0.6284
Mimumun Tang Width	0.0073	0.1858
Minimum Tang Thickness	0.0070	0.1770
Minimum Tang Radius	0.0044	0.1123
Height of Tang Projection for Aluminum Wire ± 5%	0.0051	0.1292

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	33.5	Cir Mils	44.89	AWG SYSTEM
		Sq Mils	35.26	
Approximate IEC* Standard Metric Size	0.170	Sq MM	0.02275	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0002275	
Approximate SWG Number	36	Sq Inches	0.000035257	

	Inches	Millimeters
Nominal Bare Diameter	0.0067	0.1702
Nominal Coated Single Build Wire Diameter	0.0074	0.1880
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0084	0.2126
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0286	0.7257
Depth of Cut for Radius Cut	0.0268	0.6808
Depth of Cut for Non-Radius Cut	0.0238	0.6044
Fusing Electrode Tip Diameter	0.0104	0.2633
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0235	0.5962
Mimumun Tang Width	0.0069	0.1753
Minimum Tang Thickness	0.0066	0.1670
Minimum Tang Radius	0.0042	0.1065
Height of Tang Projection for Aluminum Wire ± 5%	0.0048	0.1220

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	34	Cir Mils	39.69
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.160	Sq Mils	31.17
		Sq MM	0.02011
Approximate SWG Number	37	Sq Cm	0.0002011
		Sq Inches	0.000031173

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0063	0.1600
Nominal Coated Single Build Wire Diameter	0.0070	0.1778
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0079	0.2011
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0270	0.6865
Depth of Cut for Radius Cut	0.0254	0.6440
Depth of Cut for Non-Radius Cut	0.0225	0.5717
Fusing Electrode Tip Diameter	0.0098	0.2491
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0222	0.5640
Mimumun Tang Width	0.0065	0.1648
Minimum Tang Thickness	0.0062	0.1570
Minimum Tang Radius	0.0040	0.1008
Height of Tang Projection for Aluminum Wire ± 5%	0.0045	0.1147

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	34.5	Cir Mils	34.81	AWG SYSTEM
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.150	Sq Mils	27.34	
		Sq MM	0.01764	
Approximate SWG Number	37	Sq Cm	0.0001764	
		Sq Inches	0.000027340	

	Inches	Millimeters
Nominal Bare Diameter	0.0059	0.1499
Nominal Coated Single Build Wire Diameter	0.0066	0.1676
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0075	0.1896
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0255	0.6473
Depth of Cut for Radius Cut	0.0239	0.6072
Depth of Cut for Non-Radius Cut	0.0212	0.5390
Fusing Electrode Tip Diameter	0.0092	0.2348
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0209	0.5318
Mimimun Tang Width	0.0061	0.1544
Minimum Tang Thickness	0.0058	0.1471
Minimum Tang Radius	0.0037	0.0950
Height of Tang Projection for Aluminum Wire ± 5%	0.0042	0.1074

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	35	Cir Mils	31.36
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.140	Sq Mils	24.63
		Sq MM	0.01589
Approximate SWG Number	38	Sq Cm	0.0001589
		Sq Inches	0.000024630

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0056	0.1422
Nominal Coated Single Build Wire Diameter	0.0062	0.1575
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0070	0.1781
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0239	0.6080
Depth of Cut for Radius Cut	0.0225	0.5704
Depth of Cut for Non-Radius Cut	0.0199	0.5064
Fusing Electrode Tip Diameter	0.0087	0.2206
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0197	0.4995
Mimumun Tang Width	0.0058	0.1465
Minimum Tang Thickness	0.0055	0.1396
Minimum Tang Radius	0.0035	0.0892
Height of Tang Projection for Aluminum Wire ± 5%	0.0040	0.1019

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	35.5	Cir Mils	28.09
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.135	Sq Mils	22.06
Approximate SWG Number	38	Sq MM	0.01423
		Sq Cm	0.0001423
		Sq Inches	0.000022062

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0053	0.1346
Nominal Coated Single Build Wire Diameter	0.0059	0.1499
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0067	0.1695
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0228	0.5786
Depth of Cut for Radius Cut	0.0214	0.5428
Depth of Cut for Non-Radius Cut	0.0190	0.4819
Fusing Electrode Tip Diameter	0.0083	0.2099
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0187	0.4754
Mimumun Tang Width	0.0055	0.1387
Minimum Tang Thickness	0.0052	0.1321
Minimum Tang Radius	0.0033	0.0849
Height of Tang Projection for Aluminum Wire ± 5%	0.0038	0.0965

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	36	Cir Mils	25.00
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.125	Sq Mils	19.63
		Sq MM	0.01267
Approximate SWG Number	39	Sq Cm	0.0001267
		Sq Inches	0.000019635

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0050	0.1270
Nominal Coated Single Build Wire Diameter	0.0056	0.1422
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0063	0.1609
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0216	0.5492
Depth of Cut for Radius Cut	0.0203	0.5152
Depth of Cut for Non-Radius Cut	0.0180	0.4574
Fusing Electrode Tip Diameter	0.0078	0.1993
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0178	0.4512
Mimumun Tang Width	0.0052	0.1308
Minimum Tang Thickness	0.0049	0.1246
Minimum Tang Radius	0.0032	0.0806
Height of Tang Projection for Aluminum Wire ± 5%	0.0036	0.0910

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	36.5	Cir Mils	22.09	AWG SYSTEM
		Sq Mils	17.35	
Approximate IEC* Standard Metric Size	0.120	Sq MM	0.01119	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0001119	
Approximate SWG Number	39	Sq Inches	0.000017349	

	Inches	Millimeters
Nominal Bare Diameter	0.0047	0.1194
Nominal Coated Single Build Wire Diameter	0.0053	0.1346
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0060	0.1523
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0205	0.5198
Depth of Cut for Radius Cut	0.0192	0.4876
Depth of Cut for Non-Radius Cut	0.0170	0.4329
Fusing Electrode Tip Diameter	0.0074	0.1886
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0168	0.4270
Mimimun Tang Width	0.0048	0.1230
Minimum Tang Thickness	0.0046	0.1171
Minimum Tang Radius	0.0030	0.0763
Height of Tang Projection for Aluminum Wire ± 5%	0.0034	0.0856

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	37	Cir Mils	20.25
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.10	Sq Mils	15.90
		Sq MM	0.01026
Approximate SWG Number	40	Sq Cm	0.0001026
		Sq Inches	0.000015904

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0045	0.1143
Nominal Coated Single Build Wire Diameter	0.0050	0.1270
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0057	0.1436
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0193	0.4903
Depth of Cut for Radius Cut	0.0181	0.4600
Depth of Cut for Non-Radius Cut	0.0161	0.4084
Fusing Electrode Tip Diameter	0.0070	0.1779
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0159	0.4028
Mimimun Tang Width	0.0046	0.1177
Minimum Tang Thickness	0.0044	0.1122
Minimum Tang Radius	0.0028	0.0720
Height of Tang Projection for Aluminum Wire ± 5%	0.0032	0.0819

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	37.5	Cir Mils	17.64
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.10	Sq Mils	13.85
Approximate SWG Number	41	Sq MM	0.00894
		Sq Cm	0.0000894
		Sq Inches	0.000013854

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0042	0.1067
Nominal Coated Single Build Wire Diameter	0.0047	0.1194
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0053	0.1350
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0181	0.4609
Depth of Cut for Radius Cut	0.0170	0.4324
Depth of Cut for Non-Radius Cut	0.0151	0.3839
Fusing Electrode Tip Diameter	0.0066	0.1672
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0149	0.3787
Mimumun Tang Width	0.0043	0.1099
Minimum Tang Thickness	0.0041	0.1047
Minimum Tang Radius	0.0027	0.0676
Height of Tang Projection for Aluminum Wire ± 5%	0.0030	0.0765

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	38	Cir Mils	16.00
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.10	Sq Mils	12.57
		Sq MM	0.00811
Approximate SWG Number	42	Sq Cm	0.0000811
		Sq Inches	0.000012566

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0040	0.1016
Nominal Coated Single Build Wire Diameter	0.0045	0.1143
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0051	0.1293
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0174	0.4413
Depth of Cut for Radius Cut	0.0163	0.4140
Depth of Cut for Non-Radius Cut	0.0145	0.3675
Fusing Electrode Tip Diameter	0.0063	0.1601
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0143	0.3626
Mimumun Tang Width	0.0041	0.1046
Minimum Tang Thickness	0.0039	0.0997
Minimum Tang Radius	0.0025	0.0648
Height of Tang Projection for Aluminum Wire ± 5%	0.0029	0.0728

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	38.5	Cir Mils	13.69
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.095	Sq Mils	10.75
Approximate SWG Number	42	Sq MM	0.00694
		Sq Cm	0.0000694
		Sq Inches	0.000010752

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0037	0.0940
Nominal Coated Single Build Wire Diameter	0.0042	0.1067
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0048	0.1207
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0162	0.4119
Depth of Cut for Radius Cut	0.0152	0.3864
Depth of Cut for Non-Radius Cut	0.0135	0.3430
Fusing Electrode Tip Diameter	0.0059	0.1494
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0133	0.3384
Mimumun Tang Width	0.0038	0.0968
Minimum Tang Thickness	0.0036	0.0922
Minimum Tang Radius	0.0024	0.0605
Height of Tang Projection for Aluminum Wire ± 5%	0.0027	0.0674

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	39	Cir Mils	12.25	AWG SYSTEM
		Sq Mils	9.62	
Approximate IEC* Standard Metric Size	0.090	Sq MM	0.00621	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0000621	
Approximate SWG Number	43	Sq Inches	0.000009621	

	Inches	Millimeters
Nominal Bare Diameter	0.0035	0.0889
Nominal Coated Single Build Wire Diameter	0.0039	0.0991
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0044	0.1120
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0151	0.3825
Depth of Cut for Radius Cut	0.0141	0.3588
Depth of Cut for Non-Radius Cut	0.0125	0.3185
Fusing Electrode Tip Diameter	0.0055	0.1388
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0124	0.3142
Mimumun Tang Width	0.0036	0.0916
Minimum Tang Thickness	0.0034	0.0872
Minimum Tang Radius	0.0022	0.0561
Height of Tang Projection for Aluminum Wire ± 5%	0.0025	0.0637

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	39.5	Cir Mils	10.89
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.08	Sq Mils	8.55
		Sq MM	0.00552
Approximate SWG Number	43	Sq Cm	0.0000552
		Sq Inches	0.000008553

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0033	0.0838
Nominal Coated Single Build Wire Diameter	0.0037	0.0940
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0042	0.1063
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0143	0.3629
Depth of Cut for Radius Cut	0.0134	0.3404
Depth of Cut for Non-Radius Cut	0.0119	0.3022
Fusing Electrode Tip Diameter	0.0052	0.1317
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0117	0.2981
Mimimun Tang Width	0.0034	0.0863
Minimum Tang Thickness	0.0032	0.0823
Minimum Tang Radius	0.0021	0.0533
Height of Tang Projection for Aluminum Wire ± 5%	0.0024	0.0601

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	40	Cir Mils	9.61	AWG SYSTEM
		Sq Mils	7.55	
Approximate IEC* Standard Metric Size	0.071	Sq MM	0.00487	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0000487	
Approximate SWG Number	44	Sq Inches	0.000007548	

	Inches	Millimeters
Nominal Bare Diameter	0.0031	0.0787
Nominal Coated Single Build Wire Diameter	0.0035	0.0889
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0040	0.1005
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0135	0.3432
Depth of Cut for Radius Cut	0.0127	0.3220
Depth of Cut for Non-Radius Cut	0.0113	0.2859
Fusing Electrode Tip Diameter	0.0049	0.1245
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0111	0.2820
Mimumun Tang Width	0.0032	0.0811
Minimum Tang Thickness	0.0030	0.0773
Minimum Tang Radius	0.0020	0.0504
Height of Tang Projection for Aluminum Wire ± 5%	0.0022	0.0564

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	40.5	Cir Mils	9.00	AWG SYSTEM
		Sq Mils	7.07	
Approximate IEC* Standard Metric Size	0.07	Sq MM	0.00456	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0000456	
Approximate SWG Number	44	Sq Inches	0.000007069	

	Inches	Millimeters
Nominal Bare Diameter	0.0030	0.0762
Nominal Coated Single Build Wire Diameter	0.0034	0.0864
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0038	0.0977
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0131	0.3334
Depth of Cut for Radius Cut	0.0123	0.3128
Depth of Cut for Non-Radius Cut	0.0109	0.2777
Fusing Electrode Tip Diameter	0.0048	0.1210
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0108	0.2739
Mimumun Tang Width	0.0031	0.0785
Minimum Tang Thickness	0.0029	0.0748
Minimum Tang Radius	0.0019	0.0489
Height of Tang Projection for Aluminum Wire ± 5%	0.0022	0.0546

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	41	Cir Mils	7.84	AWG SYSTEM
		Sq Mils	6.16	
Approximate IEC* Standard Metric Size	0.063	Sq MM	0.00397	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0000397	
Approximate SWG Number	45	Sq Inches	0.000006158	

	Inches	Millimeters
Nominal Bare Diameter	0.0028	0.0711
Nominal Coated Single Build Wire Diameter	0.0031	0.0787
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0035	0.0891
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0120	0.3040
Depth of Cut for Radius Cut	0.0112	0.2852
Depth of Cut for Non-Radius Cut	0.0100	0.2532
Fusing Electrode Tip Diameter	0.0043	0.1103
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0098	0.2498
Mimumun Tang Width	0.0029	0.0733
Minimum Tang Thickness	0.0027	0.0698
Minimum Tang Radius	0.0018	0.0446
Height of Tang Projection for Aluminum Wire ± 5%	0.0020	0.0510

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	41.5	Cir Mils	6.76
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.063	Sq Mils	5.31
Approximate SWG Number	45	Sq MM	0.00343
		Sq Cm	0.0000343
		Sq Inches	0.000005309

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0026	0.0660
Nominal Coated Single Build Wire Diameter	0.0029	0.0737
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0033	0.0833
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0112	0.2844
Depth of Cut for Radius Cut	0.0105	0.2668
Depth of Cut for Non-Radius Cut	0.0093	0.2369
Fusing Electrode Tip Diameter	0.0041	0.1032
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0092	0.2336
Mimimun Tang Width	0.0027	0.0680
Minimum Tang Thickness	0.0026	0.0648
Minimum Tang Radius	0.0016	0.0417
Height of Tang Projection for Aluminum Wire ± 5%	0.0019	0.0473

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	42	Cir Mils	6.25	AWG SYSTEM
		Sq Mils	4.91	
Approximate IEC* Standard Metric Size	0.063	Sq MM	0.00317	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0000317	
Approximate SWG Number	46	Sq Inches	0.000004909	

	Inches	Millimeters
Nominal Bare Diameter	0.0025	0.0635
Nominal Coated Single Build Wire Diameter	0.0028	0.0711
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0032	0.0804
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0108	0.2746
Depth of Cut for Radius Cut	0.0101	0.2576
Depth of Cut for Non-Radius Cut	0.0090	0.2287
Fusing Electrode Tip Diameter	0.0039	0.0996
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0089	0.2256
Mimumun Tang Width	0.0026	0.0654
Minimum Tang Thickness	0.0025	0.0623
Minimum Tang Radius	0.0016	0.0403
Height of Tang Projection for Aluminum Wire ± 5%	0.0018	0.0455

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	42.5	Cir Mils	5.76
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.060	Sq Mils	4.52
		Sq MM	0.00292
Approximate SWG Number	46	Sq Cm	0.0000292
		Sq Inches	0.000004524

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0024	0.0610
Nominal Coated Single Build Wire Diameter	0.0027	0.0686
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0031	0.0776
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0104	0.2648
Depth of Cut for Radius Cut	0.0098	0.2484
Depth of Cut for Non-Radius Cut	0.0087	0.2205
Fusing Electrode Tip Diameter	0.0038	0.0961
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0086	0.2175
Mimumun Tang Width	0.0025	0.0628
Minimum Tang Thickness	0.0024	0.0598
Minimum Tang Radius	0.0015	0.0389
Height of Tang Projection for Aluminum Wire ± 5%	0.0017	0.0437

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	43	Cir Mils	4.84
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.050	Sq Mils	3.80
		Sq MM	0.00245
Approximate SWG Number	46	Sq Cm	0.0000245
		Sq Inches	0.000003801

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0022	0.0559
Nominal Coated Single Build Wire Diameter	0.0025	0.0635
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0028	0.0718
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0097	0.2452
Depth of Cut for Radius Cut	0.0091	0.2300
Depth of Cut for Non-Radius Cut	0.0080	0.2042
Fusing Electrode Tip Diameter	0.0035	0.0890
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0079	0.2014
Mimumun Tang Width	0.0023	0.0576
Minimum Tang Thickness	0.0022	0.0548
Minimum Tang Radius	0.0014	0.0360
Height of Tang Projection for Aluminum Wire ± 5%	0.0016	0.0400

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	43.5	Cir Mils	4.41
Approximate IEC* Standard Metric Size <small>*International Electrotechnical Commission</small>	0.050	Sq Mils	3.46
		Sq MM	0.00223
Approximate SWG Number	47	Sq Cm	0.0000223
		Sq Inches	0.000003464

AWG SYSTEM

	Inches	Millimeters
Nominal Bare Diameter	0.0021	0.0533
Nominal Coated Single Build Wire Diameter	0.0024	0.0610
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0027	0.0689
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0093	0.2354
Depth of Cut for Radius Cut	0.0087	0.2208
Depth of Cut for Non-Radius Cut	0.0077	0.1960
Fusing Electrode Tip Diameter	0.0034	0.0854
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0076	0.1934
Mimumun Tang Width	0.0022	0.0549
Minimum Tang Thickness	0.0021	0.0523
Minimum Tang Radius	0.0014	0.0345
Height of Tang Projection for Aluminum Wire ± 5%	0.0015	0.0382

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.

FUSING CHART FOR COMMUTATOR SLOT AND TANG TERMINAL DIMENSIONS

AWG (American Wire Gauge) Number	44	Cir Mils	4.00	AWG SYSTEM
		Sq Mils	3.14	
Approximate IEC* Standard Metric Size	0.050	Sq MM	0.00203	
<small>*International Electrotechnical Commission</small>		Sq Cm	0.0000203	
Approximate SWG Number	47	Sq Inches	0.000003142	

	Inches	Millimeters
Nominal Bare Diameter	0.0020	0.0508
Nominal Coated Single Build Wire Diameter	0.0022	0.0559
Commutator Slot Dimensions		
The saw diameter for which this chart was calculated is 7/8 Inch (0.875 Inch - 22.22 MM)		
Width of Slot for Manual Insertion	0.0025	0.0632
Width of Slot for Machine Insertion	0.0000	0.0000
Length of Cut for Radius Cut	0.0085	0.2158
Depth of Cut for Radius Cut	0.0080	0.2024
Depth of Cut for Non-Radius Cut	0.0071	0.1797
Fusing Electrode Tip Diameter	0.0031	0.0783
Orient Blade Thickness	0.0000	0.0000
Stuffing Blade Thickness	0.0000	0.0000
Tang Terminal Dimensions		
Minimum Tang Length from the Tang's End to the Start of the Tang's Radius	0.0070	0.1773
Mimumun Tang Width	0.0021	0.0523
Minimum Tang Thickness	0.0020	0.0499
Minimum Tang Radius	0.0012	0.0317
Height of Tang Projection for Aluminum Wire ± 5%	0.0014	0.0364

The dimensions are usable only to three (3) decimal places for inch measurements and two (2) decimal places for metric measurements.