



Ormiston Wire Limited

Founded in 1793



Ormiston Wire Ltd, 1 Fleming Way, Worton Road, Isleworth, Middlesex, TW7 6EU Tel 020 8569 7287 Fax 020 8569 8601 Email info@ormiston-wire.co.uk www.ormiston-wire.co.uk





Ormiston Wire Ltd was founded in 1793 in the city of London and began by making spring wire for corsets and wigs in the days before rubber. The company is now based in Isleworth. West London where we manufacture specialised wires, braids and strands in many different metals. These are used within industries as diverse as special effects in the film industry to high specification wire used in the nuclear industry. We stock an extensive range of wires from stainless steel yachts rigging to surgical suture wire smaller than a human hair. We are still an independent family firm, and won the Queens award for sustainable development in 2002.

### IN HOUSE TEST EQUIPMENT

Calibrated to respective standards

- Capacity to test customer's wire and/or assemblies. Details on request.

  1) LLOYDS MICROPROCESSOR CONTROLLED TESTING MACHINE TYPE LRX5K 5000
- 2) DENISON TENSILE TESTING MACHINE 55KN CAPACITY 3) DENISON TENSILE TESTING MACHINE 1800 N CAPACITY
- 4) MECMESIN FORCE GAUGE-AFG 250 N-250 N CAPACITY

We operate a Quality system to the requirements of BS EN ISO 9001:2001 and DS/EN ISO 13485:2003, which is documented in our Quality Assurance Manual, and supported by our Quality Assurance Procedures. We also have environmental approval BS EN 14001:2004.

### **DESIGN AND ADVICE SERVICE**

If you have an application for wire and need some advice on coatings, strengths, current carrying, flexibility, corrosion resistance, end fittings or anything else, our staff will be glad to advise you. Ormiston pride themselves on providing a specialist service.

### **HOW TO PLACE AN ORDER**

If you do not have a credit account with us just forward two trade references with an official written order in the first instance. Certificates of Conformity, chemical analysis, Wire Rope Certificates (F87) are available on request.

A charge is made for C of C and Material Certificates of £20.

Our minimum order charge is £30 plus Certificates (if required) plus Carriage plus VAT.

Telephone 0208 569 7287 Fax: 0208 569 8601

E-mail: info@ormiston-wire.co.uk

Address: 1 Fleming Way, Worton Road, Isleworth, Middx, TW7 6EU, UK

If you require assistance, don't hesitate to contact our sales office who will be pleased to help you with any enquiry.

### **DELIVERY**:

UK next day service, Europe Euro 48, Rest of World Airfreight or Post

HOURS OF BUSINESS: (Answerphone, Fax and Email available outside office hours)

Monday-Thursday 8.45am-5.00pm Lunch between 1.00pm-1.45pm Friday 8.45am-1.00pm

**PAYMENT:** (We accept payment by Bacs, Mastercard, Visa and Maestro) National Westminster Bank PLC, 22 George Street, Richmond, Surrey TW9 1JW







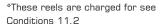
Please fill this in for future reference so that your orders can be easily processed

YOUR ACCOUNT No:

**ORMISTON CONTACT NAME:** 

# **STOCKWIRE** (in reel and coil)

A large stock is available in most types of ferrous and non-ferrous metals. These can be supplied on reel or coil as required. Normal reel capacities are 25, 50, 100, 250 and 500 grammes. Larger quantities are supplied on bulk reels or coils. Straight lengths to order.





Other sizes and materials supplied to order. See back page for length/weight chart

	SIZE	SWG	7				- 0												66				25								34		36			88	40						47		
MATERIAL	PART NO	MM	4.500	4.060	4.000	3.150	2.800	2.240	2,000	1.800	1.600	1.400	1.250	1.220	87.	8		0000	0770	0.630	0.610	0.560	0.500	0.450	0.400	0.375	0.355	0.315	0000	0.00	0.224	0.212	0.200	0.180	0.160	0.150	198	0.10	0 100	0800	0.071	0.063	0.050	5	SPECIFICATION
Spring Steel	101	-				х	X 2	( X	Х		х	х	х		)	x >			( )	X		Х	х	х	х		х	х	)	x	Х		х										L	E	3S 5216 ND3
Hard Stainless	107	-	П	Г	П	х	7	7	х		х	х	х	Т	Т	,		5	(b	X	Т	х	х	х	х	Т	х	х	7	x	х	П	х	П	х	Т	Т	Т	Т	Г	Γ	х	Г	E	3S 2056 316 S42
Soft Stainless	108	-					Τ	Τ			Х		Х		T	)			( )	X		Х	Х	Х	х			х	)	x	Х		Х		х	T	Х	:	Х		х	х	Г	E	3S 1554 316 S14
Locking	108-DTD	-		Г	П	П	Т	Т	Γ		х	П	х	Т	Т	Т	Τ	Ъ	(b	Т		х	х	х	П		Т	Т	Τ	Т	Γ	П		П	Т	Т	Т	Т	Г	Γ	Γ	Γ	Г	T	TD 189A
Plain Copper	201	-	П	х	П	х	Т	Т	х		х	х	х	Т	Т	,		5	(b	×	х	х	х	х	х	х	х	Т	χХ	x	Т	П	х	П	х :	х	Т	х	х	х	х	Т	x	E	3S 41 09 C101 '0'
Tinned Copper	202	-			П	х	T	T	х		Х	х	х	T	T	)	( )	()	( )	X		Х	х	Х	х	х	T	T	x x	x	х	х	х	х	х :	х	Τ	х	X	Х	х		Г	Е	3S 4109 C101 '0'
Implant Stainless	208	-		Г	П	П	Т	Т	Γ		х	П	х	Т	Т	Т	7	: [	Ъ	Т		х		х	х		Т	х	Τ	Т	Γ	П		П	Т	Т	Т	Т	Т	Γ	Γ	Γ	Г	E	3S 7252
Aluminium	306	-	П	Г	П	Т	Т	Т	Г		Г	П	П	х	Т	Т	)	T	Т	Τ	Γ		Γ	х	П	Т	T	Т	х	Т	Т	П	П	П	Т	Т	Т	Т	Т	Г	Γ	Т	Г	E	3S 1475
Aluminium pure	307	-			П		T	Τ	Г					T	T	)	(	T	Τ	Τ							T	х	Τ	Τ	Г					T	Τ	Τ	Γ		Γ	Г	Г	[	OIN 1712 (99.98%)
Lead	401	-		Г	П	П	Т	Т	Г		х	П	П	Т	Т	Т	Τ	Τ	Т	Т					П		Т	Т	Τ	Т	Γ	П		П	Т	Т	Т	Т	Т	Γ	Γ	Γ	Г	Т	
Contra	501	-	П	Г	П	Т	Т	Т	Г		х	П	х	Т	Т	Т	)	T	7	Т	Г	х	Г	х	П	Т	T	х	Т	Т	х	П	П	П	Т	Т	Т	Т	Т	Г	Г	Т	Г	E	3S 115
Nickel Chrome	503	-			П	T	Τ	Τ	Г		Х			х	Τ	Τ	)		×	Т		Х		Х	х			Т	Τ	Τ	Π		Х			Τ	Τ	Τ	Γ			Г	Г	E	3S 115
Nickel 200	505	-		Г	П	П	Т	Т	Г		х	П	П	Т	Т	7	7	Τ	Т	Т			Γ	х	П	П	Т	Т	Τ	Т	Г	П	П	П	Т	Т	Т	Т	Т	Γ	Γ	Г	Г	E	3S 3075 NA 11
Monel 400	508	-			П		Τ	Τ			х			I	T	Τ	)		Ι	Ι	Γ				х		I	I	Τ	Ι	Γ				T	T	Ι	Ι		Γ	Γ	Γ	Γ	E	3S 3075 NA 13
Mild Steel galv	905	-			П	х	T	Γ	х		Х		х	T	T	Т	)	T	×	T				Х	х	х	T	T	х	Τ	Γ				T	T	Γ	Γ	Γ		Γ	Γ	Γ	E	3S 1052
Mild Steel black	904	-				Х			Х		Х		Х	$\Box$	$\perp$		)	(	)																				L	L			L	Е	3S 1052

### How part numbers work

101-1000 = Spring Steel, Size 1.000mm 201-0710 = Plain Copper. Size 0.710mm

x = Stock items

Straight lengths and rolled wires made to order Prices are available on our website

## BRAID

We make all kinds of braid from a small 100 metre prototype length to continuous runs in a wide variety of metals, sizes and constructions. We manufacture to the customer's requirements so we require as much information as available, and if possible a sample, before quoting.



### **Braid Construction**

For example 24/10/0.2mm means 24 bobbins with 10 wires per bobbin, wire size 0.2mm. Cross sectional area of wire (see back page) 0.2mm=0.031420x10x24=7.54 CSA sq mm.

### Stock Braids

Stockists of a range of copper braids from 10 amp to 250 amp carrying capacity Amps rating are equilibrium values in free air at 30 degrees above ambient temperature.

### PLAIN COPPER BRAID

Part number	Amps	Construction	Approx dimensions	OD	CSA	WT KG/100MTS
211-0010	10	16/4/0.10	2.0 x 0.6mm	1.25	0.50	0.52
211-0020	20	16/5/0.15	3.0 x 1.0mm	2.50	1.41	1.32
211-0030	30	24/7/0.15	7.0 x 1.25mm	4.00	2.97	2.96
211-0040	40	24/12/0.15	9.0 x 1.25mm	5.00	5.09	4.94
211-0050	50	24/10/0.20	10.0 x 1.5mm	6.00	7.54	7.71
211-0100	100	32/16/0.20	20.0 x 1.5mm	9.00	16.08	16.44
211-0150	150	32/27/0.20	25.0 x 2.0mm	13.00	27.14	27.24
211-0200	200	2/32/21/0.20	25.0 x 3.0mm	15.00	42.20	43.15
211-0250	250	2/32/29/0.20	25.0 x 5.0mm	17.00	58.00	59.32

### **CLEAR PVC COVERED TINNED COPPER BRAID**

ĺ	212-2815	24/9/0.30	21 x 4.5mm	FLAT	15	15.75
	212-2839	2/32/9/0.30	28 x 6.0mm	FLAT	39	41.00
	212-2870	32/11/0.30	34 x 7.5mm	FLAT	70	74.00
		2/32/10/0.30				

### **TINNED COPPER BRAID**

213-0020	20	16/5/0.15	3.0 x 1.0mm	2.50	1.41	1.32
213-0050	50	24/10/0.20	10.0 x 1.5m	6.00	7.54	7.71
213-0100	100	32/16/0.20	20.0 x 1.5m	9.00	16.08	16.44
213-0150	150	32/27/0.20	25.0 x 2.0mm	13.00	27.14	27.24

### **ALUMINIUM BRAID**

310-0025	25	16/6/0.30	9.5mm WIDE	6.78	2.00
310-0050	50	16/14/0.30	19mm WIDE	15.83	4.70
310-0100	100	32/14/0.30	25mm WIDE	31.66	9.40

### PLAIN COPPER BRAIDED CORD

21 4-0196	16/7/0.	3.4	5	4.8
•	7/75/0			
ATENNA BRAID				

999-2011	16/4/0.10	PVC coated in forest	2.9	
	5 ENDS KEVLAR	green or olive drab		

Plastic Coating: We have our own in-house extrusion line and can cover to order.

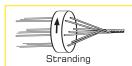
# STRANDS (Concentric and bunches)

We manufacture to order Wire Strands in many metals, sizes and constructions. These are used in engineering where non-magnetic material is required, the electrical and electronic trade for use as antenna and conductors.

In the lighting industry where low voltage lighting cables are used, these have a Kevlar core for strength and lightness. We can also plastic coat to order. The enamelled strands and braids are insulated and mostly used in transformer manufacture. Please contact us with all your requirements for specialist cables. We also keep ex-stock stainless steel and galvanised wire ropes.

### Strand Construction

For example. 7/7/0.3mm means 7 strands with 7 wires in each strand, wire size 0.3mm. Cross sectional area of wire (see back page) 0.3mm $=0.07069 \times 7 \times 7 = 3.46 CSA sg mm$ 



# **MICROCABLES AND BRASS FERRULES**

Fine stainless steel cables, both plain and nylon, covered in a variety of sizes and constructions. For use as control cables in electronic, medical, scientific, optical and photographic equipment, drawing boards, in fact any use where a low stretch, strong, small diameter flexible cable is required.



### BARE

Dia. mm	Cons	Part No	Stre	ngth	Ferrule
0.22	1 x 3	705-0045	4.5 Kg	10 lbs	1
0.26	1 x 3	705-0068	6.8 Kg	15 lbs	1
0.32	1 x 3	705-0091	9.0 Kg	20 lbs	1
0.39	1 x 3	705-0136	13.6 Kg	30 lbs	1
0.45	1 x 7	705-0227	22.6 Kg	50 lbs	1
0.51	1 x 7	705-0340	34.0 Kg	75 lbs	2
0.60	1 x 7	705-0454	45.3 Kg	100 lbs	2
0.75	1 x 7	705-0680	68.0 Kg	150 lbs	2
0.87	1 x 7	705-0907	90.6 Kg	200 lbs	3
1.05	1 x 7	705-1134	113.4 Kg	250 lbs	4
1.00	7 x 7	708-0794	79.3 Kg	175 lbs	3
1.20	7 x 7	708-1134	113.4 Kg	250 lbs	4
1.30	7 x 7	708-1361	136.0 Kg	300 lbs	5

### NYLON COVERED

Dia. mm	Cons	Part No	Stre	ngth	Ferrule
0.36	1 x 3	704-0045	4.5 Kg	10 lbs	1
0.50	1 x 3	704-0068	6.8 Kg	15 lbs	1
0.58	1 x 3	704-0091	9.0 Kg	20 lbs	1
0.60	1 x 3	704-0136	13.6 Kg	30 lbs	1
0.70	1 x 7	704-0227	22.6 Kg	50 lbs	2
0.75	1 x 7	704-0340	34.0 Kg	75 lbs	2
0.85	1 x 7	704-0454	45.3 Kg	100 lbs	3
0.95	1 x 7	704-0680	68.0 Kg	150 lbs	3
1.05	1 x 7	704-0907	90.6 Kg	200 lbs	4
1.15	1 x 7	704-1134	113.4 Kg	250 lbs	4
1.20	7 x 7	706-0794	79.3 Kg	175 lbs	4
1.30	7 x 7	706-1134	113.4 Kg	250 lbs	5
1.60	7 x 7	706-1361	136.0 Kg	300 lbs	6

### **BRASS FERRULES**

		Length	OD	ID
1	903-0001	7 mm	1.72	1.22
2	903-0002	10 mm	2.40	1.70
3	903-0003	12 mm	3.01	2.11

		Length	OD	ID
4	903-0004	14 mm	3.46	2.46
5	903-0005	16 mm	4.47	3.17
6	903-0006	18 mm	4.85	3.45

For cables over 100 lbs strength, two ferrules are recommended.

# Conditions of sale Technical & Product Information

## **SPECIALS**

We supply microcable fittings, wire rope fittings, manufactured assemblies, wire clamps and super clamps, suitable for a wide range of uses including lighting, banners, signs etc. We sell the wire and fittings separately for self-assembly if necessary.



## **HANGING SYSTEMS**

We supply fittings from two different hanging systems. They both enable shelves, signs, lights etc to be suspended using our wire. They are popular with shop fitters and interior designers as they provide a very stylish and unobtrusive method of getting around difficult display problems.



**SUPERCLAMPS** are an instantly adjustable high quality micro cable fitting system. By simply pressing the button on each clamp they can be moved up and down to a new position where they become instantly locked. No tools are needed. These fittings take cable between  $1.20 \, \text{mm}$  and  $2.0 \, \text{mm}$  7 x 7 construction stainless steel. Strength depends on the fittings used but are capable of supporting not less than  $30 \, \text{kgs}$ . They are ideal for shelving, track lighting systems, pictures or product display, in fact, anything that needs attractive instant cable adjustment.

# **WIRE ROPES AND ACCESSORIES**

We stock an extensive range of stainless steel wire rope. In 1  $\times$  19, 7  $\times$  7 and 7  $\times$  19 constructions in AlSI 316 grade stainless. Sizes 1.5 to 10 mm. We can plastic coat to order. Ferrules, thimbles and Gripple rope grips are also stocked.



# **SURGICAL SAWS AND SUTURE WIRES**

### **SUTURE WIRE**

We can supply stainless steel Suture wire in most diameters from 0.315mm to 1.6mm to British Standard (BS7252). This is an implant grade stainless. We can either supply on bulk reels, 10m reels (as shown in photograph) or cut straight lengths. Ordinary 316 grade stainless can also be supplied. Full certification can be supplied if required.

### ORTHOPEDIC WIRE BONE SAWS

We are an approved manufacturer of all types of Bone saws to DS-EN ISO13485:2003. These saws come in 30, 40, 50 or 70cm lengths with either S/S or PTFE end ferrules.

Charnley (ss ferrule)

PART NO	LENGTH
730-0030	30 cm
730-0040	40 cm
730-0050	50 cm
730-0070	70 cm

Gigli (with handles)

PART NO	LENGTH
732-0030N	30 cm
732-0040N	40 cm
732-0050N	50 cm
732-0070N	70 cm

### 1.0 DEFINITIONS

- 1.1 'The Company' means Ormiston Wire Ltd
- 1.2 'The Buyer' means the customer of the Company
- 1.3 The Contract means and contract for the sale of goods by the Company to the Buyer
- 1.4 The Goods means any goods forming the subject of the Contract

### 2.0 EXISTENCE OF CONTRACT

- 2.1 No Contract shall come into existence until the Buyers Order (however given) is accepted by the earliest of
  - (1) delivery of the Goods
  - (2) the Company's invoice
  - (3) the Company's written acceptance
- 2.2 These condition shall be incorporated in the Contract to the exclusion of any terms or conditions stipulated or referred to by the Buyer.
- 2.3 No variations or amendments of this Contact shall be binding on the Company unless confirmed by it in writing.

### 3.0 ACCOUNTS

If the buyer does not already have a credit account with the Company, payment should accompany the order, so as to avoid delay in despatching the goods, if a credit account is desired, bank and trade references should be forwarded and a few days allowed for necessary enquiries.

#### 4 0 PRICES

Goods will be invoiced at the prices ruling at the date of the coming into existence of the Contract. VAT will be charged separately on the nett invoice price. The Company reserves the right to alter or withdraw its price list at any time without prior notice.

#### 5.0 CARRIAGE

For orders of £200 goods value and over of Stainless Steel Wire Ropes carriage free, export C.I.F. £1000 otherwise carriage extra.

### 6.0 RISK

Risk in the goods shall pass to the Buyer at the time when goods are delivered to the Buyer.

### 7.0 TITLE

- 7.1 For the purpose of section 12 of the Sale of Goods Act 1979 the Company shall transfer only such title or rights in respect of the Goods as the Company has and if the Goods are purchased from a third party shall transfer only such title or rights as that party has and has transferred to the Company.
- 7.2 Notwithstanding the earlier passing of risk title in the Goods shall remain with the Company and shall not pass to the Buyer until the amount due under the invoice for them has been paid in full.
- 7.3 Until Title passes, the Buyer shall hold the Goods as bailee for the Company and shall store or mark them so that they can at all times be identified as the property of the Company.
- 7.4 The Company shall be entitled at any time before Title passes to repossess and dismantle (without being liable for any damage caused by so doing) and use or sell all or any of the Goods and so terminate (without any liability to the Buyer) the

Buyer's right to use, sell or otherwise deal in them and for that purpose or for determining what if any Goods are held by the Buyer and inspecting them to enter into the premises of the Buyer.

- 7.5 Until Title passes the entire proceeds of sale of the Goods shall be held in trust for the Company and shall not be mingled with other monies or paid into any overdrawn bank account and shall be at all times identifiable as the vendors money.
- 7.6 The Company shall be entitled to maintain an action for the price of any Goods notwithstanding that Title in them has not passed to the Buver.

### 8.0 FORCE MAJEURE

The Company shall be under no liability whatsoever for any delay in the performance of any Contract by reason or consequence of any matter or thing outside the control of the Company, including but not limited to labour troubles, civil commotion, natural catastrophe, government restriction of shortage of supplies and the Contract shall be suspended during such delay. Upon the cessation of the cause of the delay the contract shall again become operative provided that if as a result of such delay a modification of the terms of the Contract is requested by the Company and it is reasonable that such modification be made the Contract shall be so modified

### 9 0 INSPECTION

The Buyer undertakes to examine the goods immediately on delivery.

### 10.0 PAYMENT AND INTEREST

- 10.1 The terms of payment are nett 30 days from the date of invoice and will be enforced vigorously.
- 10.2 If the buyer fails to pay the invoice price by the due date the buyer shall forfeit any discount given in the invoice and shall pay interest on any overdue amount from the date of the invoice to the date or payment (whether before or after judgement) calculated at the rate of 4% per annum over Barclays bank base rate (calculated on a daily basis) or if applicable the rate of interest payable under the Late Payment of Commercial Debts (Interest) Act 1998 (whichever may be greater) and the buyer will reimburse the Company for all costs and expenses including legal costs incurred in the collection of any overdue amount.

### 11.0 GENERAL

- 11.1 The Company reserves the right to supply plus or minus 10% on weight or length.
- 11.2 Reels and packaging are charged extra but will be refunded on return in good condition, carriage paid.
- 11.3 The Company may at its discretion suspend or terminate the supply of any Goods if the Buyer fails to make any payment when and as due or otherwise defaults in any of its obligations under the Contract, or any other agreement with the Company or becomes insolvent, has a receiver appointed of its business or is compulsorily or voluntarily wound up or the Company bona fide believes that any of these events may occur and in case of termination shall be entitled to forfeit any deposit paid.

### 12.0 LAW AND CONSTRUCTION

The Contract shall be governed by English Law and the Buyer consents to the exclusive jurisdiction of the English courts in all matters regarding the Contract except to the extent that the Company invokes the jurisdiction of the courts of any other country



# Single Solid Wire only Metric Wire approximate weight and length table

Diameter	Diameter	Sect. Area	Copper Steel		teel	Aluminium Diamet		Diameter	Nearest	Nearest	Nearest	Nearest	
m m	inch	mm2	Mtrs/	K gs/	Mtrs/	Kgs	Mtrs/	Kgs	m m	S.W.G	A.W.G	B.W.G	Music wire
			Kg 1	000mtrs	Kg	1000mtrs	Kg	1000mtrs		Gauge No	Guage No	Guage No	Guage No
5.000 4.500 4.000 3.550 3.150	0.1969 0.1772 0.1575 0.1398 0.1240	19.6350 15.9043 12.5664 9.8980 7.7931	5.73 7.07 8.95 11.36 14.43	174.55 141.39 111.72 87.99 69.28	6.48 8.00 10.12 12.85 16.33	154.3 125.0 98.8 77.8 61.3	18 86 23 29 29 47 37 42 47 53	53.01 42.94 33.93 26.72 21.04	5.000 4.500 4.000 3.550 3.150	6 7 8 9 10	6 7 8	6 7 8 9 11	45 42 40
2.800 2.500 2.240 2.000 1.800	0.1102 0.0984 0.0882 0.0787 0.0709	6.1575 4.9087 3.9408 3.1416 2.5447	18.27 22.92 28.54 35.81 44.20	54.74 43.64 35.03 27.93 22.62	20.66 25.92 32.28 40.50 50.0	48.40 38.58 30.97 24.69 20.00	60 15 75 45 93 98 117 9 145 5	16.63 13.25 10.64 8.482 6.871	2.800 2.500 2.240 2.000 1.800	11 12 13 14 15	9 10 11 12 13	12 13 14 15	38 35 33 30 28
1.600 1.400 1.250 1.120 1.000	0.0630 0.0551 0.0492 0.0441 0.0394	2.0106 1.5394 1.2272 0.9852 0.7854	55.95 73.07 91.66 114.2 143.2	17.87 13.69 10.91 8.76 6.98	63.28 82.65 103.7 129.1 162.0	15.80 12.10 9.65 7.74 6.17	184.2 240.6 301.8 375.9 471.6	5.429 4.156 3.313 2.660 2.121	1.600 1.400 1.250 1.120 1.000	16 17 18	14 15 16 17 18	16 17 18 19	26 24 22 20 18
0.900 0.800 0.710 0.630 0.560	0.0354 0.0315 0.0280 0.0248 0.0220	0.6362 0.5027 0.3959 0.3117 0.2463	176.8 223.8 284.1 360.9 456.7	5.656 4.469 3.520 2.771 2.190	200.0 253.1 321.3 408.1 516.5	5.000 3.951 3.112 2.450 1.936	582.2 736.8 935.5 11.88 15.04	1.718 1.357 1.069 0.842 0.665	0.900 0.800 0.710 0.630 0.560	20 21 22 23 24	19 20 21 22 23	20 21 22 23 24	16 14 12 10 9
0.500 0.450 0.400 0.355 0.315	0.0197 0.0177 0.0157 0.0140 0.0124	0.19635 0.15904 0.12566 0.09898 0.07793	572.9 707.3 895.1 1136 1443	1.746 1.414 1.117 0.880 0.693	648.0 799.9 1012 1285 1633	1.543 1.250 0.988 0.778 0.613	1886 2329 2947 3742 4753	0.530 0.429 0.339 0.267 0.210	0.500 0.450 0.400 0.355 0.315	25 26 27 29 30	24 25 26 27 28	25 26 27 28 30	8 7 6
0.300 0.280 0.250 0.224 0.200	0.0118 0.0110 0.0098 0.0088 0.0079	0.07069 0.06158 0.04909 0.03941 0.03142	1591 1827 2292 2854 3581	0 6284 0 5474 0 4364 0 3503 0 2793	1800 2066 2592 3228 4050	0.5556 0.4840 0.3858 0.3097 0.2469	5240 6015 7545 9398 11789	0.191 0.166 0.133 0.106 0.085	0.300 0.280 0.250 0.224 0.200	32 33 34 36	29 30 31 32	31 32 33	
0.180 0.160 0.150 0.140 0.125	0.0071 0.0063 0.0059 0.0055 0.0049	0.025447 0.020106 0.017671 0.015394 0.012272	4420 5595 6365 7307 9166	0.2262 0.1787 0.1571 0.1369 0.1091	5000 6328 7200 8265 10367	0.2000 0.1580 0.1389 0.1210 0.0965	14555 18421 20959 24060 30180	0.0687 0.0543 0.0477 0.0416 0.0331	0.180 0.160 0.150 0.140 0.125	37 38 39	33 34 35 36	34 35	
0.122 0.112 0.100 0.090 0.080	0.0048 0.0044 0.0039 0.0035 0.0031	0.011690 0.009852 0.007854 0.006362 0.005027	9623 11418 14322 17682 22378	0.1039 0.0876 0.0698 0.0566 0.0447	10883 12914 16199 19999 25311	0.0919 0.0774 0.0617 0.0500 0.0395	31683 37593 47157 58219 73683	0.03156 0.02660 0.02121 0.01718 0.01357	0.122 0.112 0.100 0.090 0.080	40 41 42 43 44	37 38 39 40	36	
0.071 0.063 0.056 0.050	0.0028 0.0025 0.0022 0.0020	0.003959 0.003117 0.002463 0.001963	28411 36085 45670 57289	0.0352 0.0277 0.0219 0.0175	32134 40614 51655 64796	0.0311 0.0245 0.01936 0.01543	150373	0.01069 0.00842 0.00665 0.00530	0.071 0.063 0.056 0.050	45 46 47	41 42 43 44		
0.045 0.040 0.036 0.032 0.028 0.025	0.0018 0.0016 0.0014 0.0013 0.0011 0.0010	0.001590 0.001257 0.001018 0.000604 0.000616 0.000491	139665 182681	0.0090 0.0071 0.0055	124992 158193 206620	0.00988 0.00800 0.00632 0.00484	294731 363866 460518 601493	0.00217 0.00166	0.045 0.040 0.036 0.032 0.028 0.025	48 49 50	45 46 47 48 49 50		

**Conversions** Metres x 3.28 = Feet Feet x 0.3048 = Metres

Kilo x 2.205 = PoundsPounds x 0.4536 = Kilos

Sq. mm x 0.0015 =Sq. ins Sq. ins x 645.16 = Sq. mm

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