

Technical & product information

ISSUE 4



Ormiston Wire Limited

Founded in 1793

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ISO 9001
BUREAU VERITAS
Certification



ISO 14001
BUREAU VERITAS
Certification



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

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

214-0196		16/7/0.1 7/75/0.1		3.4	5	4.8
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ANTENNA BRAID

999-2011		16/4/0.10 5 ENDS KEVLAR	PVC coated in forest green or olive drab	2.9		
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Plastic Coating: We have our own in-house extrusion line and can cover to order.

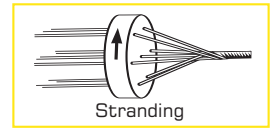
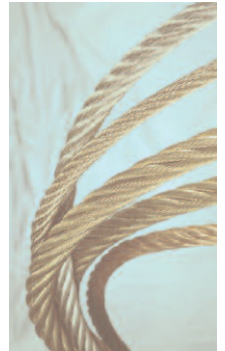
STRANDS (Concentric and bunches)

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.

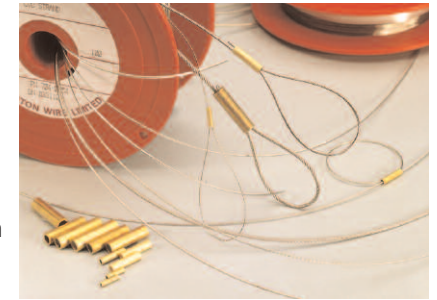
Strand Construction

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 x 7 x 7 =3.46 CSA sq 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	Strength		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	Strength		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

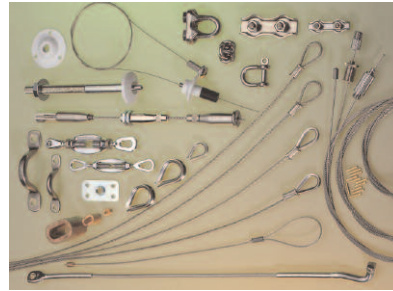
		Length	OD	ID
1	903-0001	7 mm	1.72	1.22
2	903-0002	10 mm	2.40	1.70
3	903-0003	12 mm	3.01	2.11

		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.

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 1.20mm and 2.0mm 7 x 7 construction stainless steel. Strength depends on the fittings used but are capable of supporting not less than 30kgs. 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 x 19, 7 x 7 and 7 x 19 constructions in AISI 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 Contract 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 Buyer.

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 of 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 mm	Diameter inch	Sect. Area mm ²	Copper		Steel		Aluminium		Diameter mm	Nearest S.W.G Gauge No	Nearest A.W.G Gauge No	Nearest B.W.G Gauge No	Nearest Music wire Gauge No
			Mtrs/ Kg	Kgs/ 100mtrs	Mtrs/ Kg	Kgs/ 100mtrs	Mtrs/ Kg	Kgs/ 100mtrs					
5.000	0.1969	19.6350	5.73	174.55	6.48	154.3	18.86	53.01	5.000	6		6	
4.500	0.1772	15.9043	7.07	141.39	8.00	125.0	23.29	42.94	4.500	7		7	
4.000	0.1575	12.5664	8.95	111.72	10.12	98.8	29.47	33.93	4.000	8	6	8	45
3.550	0.1398	9.8980	11.36	87.99	12.85	77.8	37.42	26.72	3.550	9	7	9	42
3.150	0.1240	7.7931	14.43	69.28	16.33	61.3	47.53	21.04	3.150	10	8	11	40
2.800	0.1102	6.1575	18.27	54.74	20.66	48.40	60.15	16.63	2.800	11	9	12	38
2.500	0.0984	4.9087	22.92	43.64	25.92	38.58	75.45	13.25	2.500	12	10	13	35
2.240	0.0882	3.9408	28.54	35.03	32.26	30.97	93.98	10.64	2.240	13	11	14	33
2.000	0.0787	3.1416	35.81	27.93	40.50	24.69	117.9	8.482	2.000	14	12	15	30
1.800	0.0709	2.5447	44.20	22.62	50.0	20.00	145.5	6.871	1.800	15	13	15	28
1.600	0.0630	2.0106	55.95	17.87	63.28	15.80	184.2	5.429	1.600	16	14	16	26
1.400	0.0551	1.5394	73.07	13.69	82.65	12.10	240.6	4.156	1.400	17	15	17	24
1.250	0.0492	1.2272	91.66	10.91	103.7	9.65	301.8	3.313	1.250	18	16	18	22
1.120	0.0441	0.9852	114.2	8.76	129.1	7.74	375.9	2.660	1.120	19	17	19	20
1.000	0.0394	0.7854	143.2	6.98	162.0	6.17	471.6	2.121	1.000	19	18		18
0.900	0.0354	0.6362	176.8	5.656	200.0	5.000	582.2	1.718	0.900	20	19	20	16
0.800	0.0315	0.5027	223.8	4.469	253.1	3.951	736.8	1.357	0.800	21	20	21	14
0.710	0.0280	0.3959	284.1	3.520	321.3	3.112	935.5	1.069	0.710	22	21	22	12
0.630	0.0248	0.3117	360.9	2.771	408.1	2.450	1188	0.842	0.630	23	22	23	10
0.560	0.0220	0.2463	456.7	2.190	516.5	1.936	1504	0.665	0.560	24	23	24	9
0.500	0.0197	0.19635	572.9	1.746	648.0	1.543	1886	0.530	0.500	25	24	25	8
0.450	0.0177	0.15904	707.3	1.414	799.9	1.250	2329	0.429	0.450	26	25	26	7
0.400	0.0157	0.12566	895.1	1.117	1012	0.988	2947	0.339	0.400	27	26	27	6
0.355	0.0140	0.09898	1136	0.880	1285	0.778	3742	0.267	0.355	29	27	28	
0.315	0.0124	0.07793	1443	0.693	1633	0.613	4753	0.210	0.315	30	28	30	
0.300	0.0118	0.07069	1591	0.6284	1800	0.5556	5240	0.191	0.300				
0.280	0.0110	0.06158	1827	0.5474	2066	0.4840	6015	0.166	0.280	32	29		
0.250	0.0098	0.04909	2292	0.4364	2592	0.3858	7545	0.133	0.250	33	30	31	
0.224	0.0088	0.03941	2854	0.3503	3228	0.3097	9398	0.106	0.224	34	31	32	
0.200	0.0079	0.03142	3581	0.2793	4050	0.2469	11789	0.085	0.200	36	32	33	
0.180	0.0071	0.025447	4420	0.2262	5000	0.2000	14555	0.0687	0.180	37	33	34	
0.160	0.0063	0.020106	5595	0.1787	6328	0.1580	18421	0.0543	0.160		34		
0.150	0.0059	0.017671	6365	0.1571	7200	0.1389	20959	0.0477	0.150	38			
0.140	0.0055	0.015394	7307	0.1369	8265	0.1210	24060	0.0416	0.140	39	35		
0.125	0.0049	0.012272	9166	0.1091	10367	0.0965	30180	0.0331	0.125		36	35	
0.122	0.0048	0.011690	9623	0.1039	10883	0.0919	31683	0.03156	0.122	40			
0.112	0.0044	0.009852	11418	0.0876	12914	0.0774	37593	0.02660	0.112	41	37		
0.100	0.0039	0.007854	14322	0.0698	16199	0.0617	47157	0.02121	0.100	42	38	36	
0.090	0.0035	0.006362	17682	0.0566	19999	0.0500	58219	0.01718	0.090	43	39		
0.080	0.0031	0.005027	22378	0.0447	25311	0.0395	73683	0.01357	0.080	44	40		
0.071	0.0028	0.003959	28411	0.0352	32134	0.0311	93547	0.01069	0.071	45	41		
0.063	0.0025	0.003117	36085	0.0277	40614	0.0245	118813	0.00842	0.063	46	42		
0.056	0.0022	0.002463	45670	0.0219	51655	0.01936	150373	0.00665	0.056	47	43		
0.050	0.0020	0.001963	57289	0.0175	64796	0.01543	188628	0.00530	0.050	47	44		
0.045	0.0018	0.001590	70727	0.0141	79995	0.01250	232874	0.00429	0.045		45		
0.040	0.0016	0.001257	89513	0.0112	101244	0.00988	294731	0.00339	0.040	48	46		
0.036	0.0014	0.001018	110510	0.0090	124992	0.00800	363866	0.00275	0.036		47		
0.032	0.0013	0.000604	139665	0.0071	158193	0.00632	460518	0.00217	0.032	49	48		
0.028	0.0011	0.000616	182681	0.0055	206620	0.00484	601493	0.00166	0.028		49		
0.025	0.0010	0.000491	229154	0.0044	259184	0.00386	754512	0.00133	0.025	50	50		

Conversions

Metres x 3.28 = Feet

Feet x 0.3048 = Metres

Kilo x 2.205 = Pounds

Pounds x 0.4536 = Kilos

Sq. mm x 0.0015 = Sq. ins

Sq. ins x 645.16 = Sq. mm

FINAL WORD: We hope this catalogue has given you an idea of what we sell. If you cannot see what you require please contact us or look at our website. Additional copies are available on request.

WE ARE NOT ONLY A SOURCE OF WIRE BUT ALSO A SOURCE OF EXPERTISE