

ROUND ROPES



CHARACTERISTICS

Section 0,04 ÷ 120 mm²
 Material Cu - SnCu - NiCu
 Strands 0,05 / 0,07 / 0,10 mm

ITALICAB round ropes are manufactured according to DIN 46438 specifications in untinned or tinned copper wire. The customer can request the right or left-hand pitch.

Section mm ²	Strandings mm	N° of bunches	Diameter mm ²	Total weight kg/km 12%
0,04	21 x 0,05	1	0,26	0,4
0,05	26 x 0,05	1	0,3	0,47
0,1	51 x 0,05	1	0,4	0,93
0,14	72 x 0,05	2	0,5	1,35
0,2	102 x 0,05	2	0,6	1,9
0,25	128 x 0,05	3	0,7	2,4
0,35	180 x 0,05	3	0,8	3,3
0,5	256 x 0,05	4	1	4,7
0,75	384 x 0,05	4	1,2	7,3
1	512 x 0,05	4	1,5	9,8
1,5	302 x 0,07	7	1,9	14
2	525 x 0,07	7	2,2	20
2,5	651 x 0,07	7	2,4	24

Section mm ²	Strandings mm	N° of bunches	Diameter mm ²	Total weight kg/km 12%
3,2	819 x 0,07	7	2,8	32
4	1036 x 0,07	7	3,1	39
4,5	1190 x 0,07	7	3,4	44
5,25	1372 x 0,07	7	3,6	51
6	1561 x 0,07	7	4	59
8	2100 x 0,07	7	4,6	79
10	2604 x 0,07	7	5	99
16	4200 x 0,07	7	6,5	158
25	3192 x 0,07	7	8,4	248
35	4480 x 0,07	7	10	350
50	6383 x 0,07	7	12	500
70	8918 x 0,07	7	12,8	700
120	15300 x 0,07	7	18	1190

ROUND BRAIDS



CHARACTERISTICS

Section 0,25 ÷ 25 mm²
 Material Cu - SnCu - NiCu
 Strands 0,05 / 0,07 mm

ITALICAB round braids are used as flexible continuous current carrying conductors as an alternative to flat braids for applications demanding a greater degree of flexibility. They are available in a wide range of sizes and may be multi-layered to increase their current carrying capacity. By changing the conductor strand size, it is possible to alter the level of flexibility of the braid whilst still maintaining the same cross-sectional area. Round braids are available with the option of a jacket, including zero-halogen, providing mechanical protection and electrical insulation.

Section mm ²	Rope diameter mm	Stranding mm
0,25	0,80	8 x 16 x 0,05
0,35	1,00	8 x 23 x 0,05
0,50	1,20	8 x 32 x 0,05
0,75	1,50	8 x 48 x 0,05
1,00	1,80	8 x 64 x 0,05
1,50	2,00	12 x 64 x 0,05
1,50	2,00	16 x 48 x 0,05
0,50	1,20	8 x 16 x 0,07
1,00	1,80	8 x 32 x 0,07
1,50	2,00	12 x 33 x 0,07

Section mm ²	Rope diameter mm	Stranding mm
2,00	2,30	12 x 44 x 0,07
2,50	2,50	12 x 54 x 0,07
4,00	2,90	12 x 42 x 0,10
6,00	3,60	12 x 64 x 0,10
8,00	4,10	12 x 85 x 0,10
10,00	4,50	12 x 106 x 0,10
12,00	5,00	12 x 127 x 0,10
16,00	5,50	12 x 170 x 0,10
25,00	7,30	12 x 265 x 0,10

SQUARE BRAIDS



CHARACTERISTICS

Section 0,25 ÷ 180 mm²
 Material Cu - SnCu - NiCu
 Strands 0,05 / 0,20 mm

Section mm ²	Wires dia. 0,05 mm	Wires dia. 0,07 mm	Wires dia. 0,10 mm	Wires dia. 0,15 mm	Wires dia. 0,20 mm	Diameter mm
0,25	8 x 16	8 x 8				0,7
0,35	8 x 24	8 x 12				1
0,5	8 x 32	8 x 16				1,2
0,75	8 x 48	8 x 24				1,4
1	8 x 64	8 x 32	8 x 16			1,5
1,25	8 x 80	8 x 40	8 x 20			1,65
1,5	8 x 96	8 x 48	8 x 24			1,8
2	8 x 128	8 x 64	8 x 32			2,1
3	8 x 192 / 12 x 128	8 x 96 / 12 x 64	12 x 32	12 x 15		2,8
4	8 x 256 / 12 x 170	8 x 128 / 12 x 88	12 x 44	12 x 19	8 x 16	3
5	8 x 320 / 12 x 212	8 x 160 / 12 x 108	12 x 54	12 x 24	8 x 20	3,8

ITALICAB square braids are produced, on request, in a shaped with four rounded edges, both in red copper and tinned copper. Square braids are available in a wide range of sizes and may be multi-layered to increase their current carrying capacity. By changing the conductor strand size, it is possible to change the level of flexibility of the braid whilst still maintaining the same cross-sectional area.

Section mm ²	Wires dia. 0,05 mm	Wires dia. 0,07 mm	Wires dia. 0,10 mm	Wires dia. 0,15 mm	Wires dia. 0,20 mm	Diameter mm
6	8 x 384 / 12 x 255	8 x 192 / 12 x 130	12 x 65	12 x 28	8 x 24	4
10	12 x 425	12 x 217	12 x 108	12 x 47	12 x 26	5,2
16	12 x 680	12 x 348	12 x 174	12 x 75	12 x 42	6,2
25	12 x 1062	12 x 542	12 x 265	12 x 117	12 x 66	8,2
50		12 x 1085	12 x 530	12 x 235	12 x 132	11
75			12 x 796	12 x 353	12 x 199	13,2
95			12 x 1008	12 x 448	12 x 252	15
100			12 x 1061	12 x 470	12 x 265	16
120			12 x 1270	12 x 565	12 x 318	18,4
150			12 x 1592	12 x 706	12 x 398	20
180			12 x 1910	12 x 847	12 x 477	22

FLAT BRAIDS



CHARACTERISTICS

Section 1 ÷ 350 mm²
 Material Cu - SnCu - NiCu
 Strands 0,05 / 0,20 mm

Section mm ²	Wires dia. 0,05 mm	Wires dia. 0,07 mm	Wires dia. 0,10 mm	Wires dia. 0,15 mm	Wires dia. 0,20 mm	Diameter mm
1	12 x 43	12 x 22	12 x 10			2 x 1
2	16 x 64	12 x 43	24 x 10			3 x 1
3	16 x 95	24 x 32	24 x 16			5 x 1
4	16 x 85	24 x 43	24 x 21		32 x 4	6 x 1
5	24 x 106	24 x 54	32 x 20	32 x 9	32 x 5	8 x 1
6	24 x 95	24 x 65	32 x 24	32 x 11	32 x 6	9 x 1
8	32 x 127	32 x 65	32 x 32	32 x 14	32 x 8	8 x 1,6
10	32 x 160	32 x 81	32 x 40	32 x 18	32 x 10	10 x 1,6
12	32 x 191	32 x 97	32 x 48	32 x 21	32 x 12	12 x 1,6
16	32 x 255	32 x 130	32 x 64	32 x 28	32 x 16	15 x 2
20	32 x 318	32 x 160	32 x 80	32 x 35	32 x 20	20 x 2
25	32 x 398	32 x 202	32 x 100	32 x 44	32 x 25	20 x 2,2
30	32 x 478	32 x 244	32 x 120	32 x 53	32 x 30	25 x 2,4

ITALICAB flat braids are used as continuous current carrying conductors and are utilised in the manufacture of heart bonding leads. They are available in a wide range of sizes and may be multi-layered to increase their current carrying capacity. By changing the conductor strand size, it is possible to change the level of flexibility of the braid whilst still maintaining the same cross-sectional area.

Section mm ²	Wires dia. 0,05 mm	Wires dia. 0,07 mm	Wires dia. 0,10 mm	Wires dia. 0,15 mm	Wires dia. 0,20 mm	Diameter mm
35	32 x 558	32 x 284	32 x 140	32 x 62	32 x 35	25 x 2,8
40			32 x 160	32 x 70	32 x 40	25 x 3
50	32 x 797	32 x 406	32 x 200	32 x 88	32 x 50	30 x 3,4
70			32 x 280	32 x 124	32 x 70	30 x 5
75			32 x 300	32 x 132	32 x 75	30 x 5
100			32 x 400	32 x 176	32 x 100	35 x 5,6
120			32 x 480	32 x 211	32 x 120	35 x 6
150			32 x 600	32 x 264	32 x 150	40 x 7,5
175					32 x 175	40 x 8
200					32 x 200	45 x 8,5
250					32 x 250	50 x 10
300					32 x 300	50 x 12
350					32 x 350	60 x 11,5

BRAIDS CONNECTORS



CHARACTERISTICS

Section 1 ÷ 350 mm²
 Material Cu - SnCu - NiCu
 Strands 0,05 / 0,20 mm

ITALICAB offers an extensive range of flexible braid connectors and earth bonding leads. By selecting the correct flat or round braid it is possible to create a connector with a specific temperature rating, corrosion resistance, weight, flexibility and current carrying capacity. Changing the strand size or the construction of the braid can alter the flexibility of a connector; finer strands generally offering the greatest flexibility.

COPPER EARTHING CABLE - ESUY



CHARACTERISTICS

Section 16 ÷ 120 mm²
 Material Cu - SnCu - NiCu
 Insulation transparent silicon / PVC
 Strands 0,05 / 0,20 mm

ITALICAB copper earthing cable perform a protective function in repair work. They are used for earthing current-carrying parts in high voltage power installations of the electricity supply companies and railways systems. Due to their high flexibility, our earthing cables are also suitable for earthing systems and equipotential systems on machine parts and data processing systems.

Section	Stranding	Total diameter	Total insulated diameter
		mm	mm
16	4200 x 0,07	6	8,5
16	2103 x 0,1	6	8,5
25	3192 x 0,1	7,5	9,8
35	4480 x 0,1	9	11,6
50	6383 x 0,1	10,5	13,8
70	8918 x 0,1	12,5	15,8
95	12100 x 0,1	15,5	18,1
120	15300 x 0,1	17	21

In order to quote to your requirement, please supply us the following information:

FOR ROUND ROPES

Diameter of copper strand? We can supply from 0,05 to 0,40 mm
 Type of copper? We can supply red or tinned copper
 Cross-section? We can supply from 0,25 mm² to 1000 mm²

FOR FLAT, ROUND OR SQUARE BRAID

Diameter of copper strand? We can supply from 0,05 mm to 0,40 mm
 Type of copper? We can supply red or tinned copper
 Cross-section? We can supply from 0,25 mm² to 1000 mm²

FOR FLAT, ROUND OR SQUARE BRAID CONNECTIONS

Diameter of copper strand? We can supply from 0,05 mm to 0,40 mm
 Type of copper? We can supply red or tinned copper
 Cross-section? We can supply from 0,25 mm² to 1000 mm²
 Size of flat connection lug: (T, J) or any special round lug requirement
 Length of braid connection: (L)
 Diameter of hole (Ø)

