

MPSA
3M Mounting Pad, self-adhesive Capacitor

Ø [mm]

Ø 25

Ø 30

Ø 35

These adhesive pads from Mundorf are useful as padding to add to the bottom of your capacitors to dampen mechanical vibrations.



The **TubeCap®** is made of polypropylene film with special features. This is particularly thin and the self-healing properties are markedly pronounced due to a special coating. This leads to a very high electrical strength in the capacitor with compact dimensions.

The **TubeCap®** combines a high degree of dielectric strength and low residual inductivity with a very compact form of construction. It has been developed as a high-quality technical alternative to high-voltage electrolytic capacitors and is thus ideally suited to use in tube amplifiers.

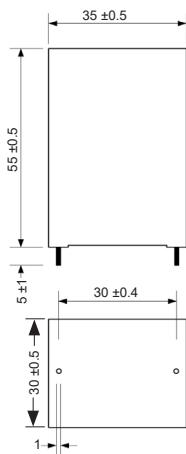
The advantages vis-à-vis electrolytic capacitors are:

- Lower ESR and lower residual inductivity
- No drying out; therefore longer service life
- Excellent Self-healing properties
- More compact form of construction
- There is no series connection necessary for increasing the dielectric strength.

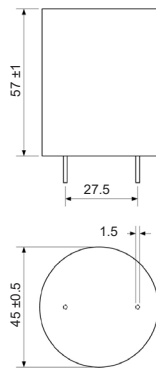


Technical specifications:

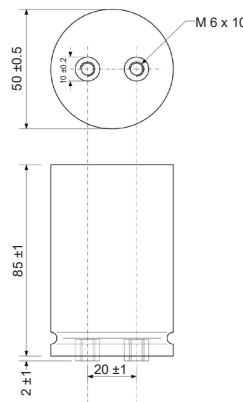
Dielectric: Polypropylen
 Dielectric strength: 550-1 000 VDC
 Loss factor: $\tan \delta < 0.005$ bei 1 kHz
 Sealing compound: PU UL 94-V0
 Useful Life: 100 000 h @ hot spot 60°
 Failure rate: 1 fit
 Cover: $0.5 \times U_N$; 40°
 Permissible ambient temperature 85°C/185°F



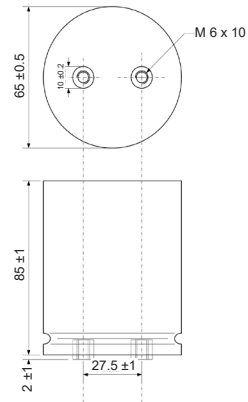
Specifications casing 1:
 Bucket: Plastic bucket UL 94-V0
 Terminals:
 copper wire, tin-plated Ø1.0 mm
 Weight: approx. 70g



Specifications casing 2:
 Bucket: aluminum bucket,
 unshrunk UL 94-V0
 Terminals:
 copper wire, tin-plated Ø1,4 mm
 Weight: approx. 105g



Specifications casing 3:
 Bucket: aluminum bucket,
 unshrunk UL 94-V0
 Terminals:
 internal screw thread M6 x 10
 Weight: approx. 215g



Specifications casing 4:
 Bucket: aluminum bucket,
 unshrunk UL 94-V0
 Terminals:
 internal screw thread M6 x 10
 Weight: approx. 345g

TCAP

MKP-capacitors for tubes applications

Capacity [µF] ±5%	VDC	Casing	ESR@10 Hz (typ.) [mOhm]	ESL @500kHz [nH]	[€]
10	1000	1	13	17,0	19,90
20	750	1	10	17,0	21,90
30	600	1	9	17,0	27,90
47	600	2	7	24,5	37,90
100	550	3	9	88,6	89,90
200	550	4	9	92,5	149,90

Power Capacitors Car Audio

Inner Excellence

Storage capacitors are basic equipment for every high class car stereo. Because no audio system is better than its power supply!

The installation should be performed by an expert only. Also any follow-up works at the car's electrical system have to be performed with utmost caution (danger of short circuit).

Mundorf HeadCaps solving almost every car receiver problem caused by voltage issues, like:

- Flickering monitors
- Losing navigation data while start/stop processes
- Losing phone connections while start/stop processes

Additional Features:

- More detailed, subtle and powerful music reproduction
- Available as on-board computer friendly version MPC68i
- Relieves and protects batteries and alternators
- Follow-me-home-music

MPowerSupply HeadCap

Type	Rated Voltage [VDC]	Capacitance [μF]	Body Ø * L [mm]	Wire Ø * L [mm]	€
NEW MPC68	25	68000	50 * 80	M5 (2Nm)	64,90
NEW MPC68i	25	68000	50 * 90	M5 (2Nm)	79,90

Mundorf PowerCaps guarantee stabilized voltage directly at the amp. Consequently optimized for highest power pulse currents, our storage capacitors ensure extra power at the decisive moment. The result is a powerful and precise bass and a brilliant, open sound characteristics.

MPowerSupply PowerCap

Type	Rated Voltage [VDC]	Capacitance [F]	Body Ø * L [mm]	€
PCC100	18	1,0	75 * 225	M5 (2Nm) 179,90
PCC150	18	1,5	75 * 225	M5 (2Nm) 229,90



MPC68



MPC68i



PCC 1000

The sound characteristics of a coil are not only determined by the coil core (see p. 32) and the manufacturing quality but also by the wire type used. In order to be able to offer you the right coil for each application we use **three types of wires** made of **three materials** of highest purity.

OFC copper

Coils that use oxygen-free copper (99.997% purity) as conductor material are characterised by a harmonic, stereophonic reproduction of music, rich in detail, and an excellent price/performance ratio.

Pure silver

Due to their ability to reproduce voices and instruments in a more dynamic, detailed, spatial manner and with more timbres compared to copper coils, silver coils of highest purity (type 99.99%) are highly appreciated and preferred by a number of audio enthusiasts.

SilverGold

99% silver + 1% gold = 100% music.

This does not only add up for capacitors such as the MCap® SUPREME SilverGold.Oil and audio cables, but also for coils. The high-purity gold (type 99.99%) changes the crystalline structure of silver and maximises its very good electric conductivity. Instruments and voices unfold their full range of timbres and their character is illuminated and becomes perceivable in all shades. On the one hand 'crystal clear,' the reproduction is at the same time vibrant and warm, embedded in a finely differentiated, location-true image. Purity and fine elegance combined with a vibrant character distinguish this exquisite material from all others!

SolidCore wires

The reproduction of music by coils made of **solid round wires** (also referred to as SolidCore) excels by natural vibrancy and fineness as well as highest tonal neutrality. Another benefit of round wire coils are their highly compact dimensions. Like all Mundorf coils, they are wound and mounted by hand with highest accuracy and precision using special machines in Germany.

OFC standard is the most cost-efficient, audio-compatible coil wire and available in diameters from 0.50 to 3.90mm. Coils made of this material, however, do not have an additional coil fixation and thus have a disadvantage with respect to sound compared to all other coil types manufactured by Mundorf: This is because electric current passing through a coil will always cause a vibration of the entire winding. Due to the microphonic effect (the conversion of mechanical oscillations to electric oscillations) these mechanical oscillations are added to the original signal as additional information. This results in an interference with and an alienation of the details of the original signal. On the one hand, this results in a loss of spatial quality and transparency of the music and on the other hand in an increase of distortions and tonal discolorations of the signal. This physically induced unwanted effect, however, can be eliminated completely by the use of baked varnish wire or by means of vacuum impregnation.

Baked varnish coils have a special, solid OFC round wire with an additional layer of varnish. After the coil has been wound, it is heated up by means of an electric impulse causing the additional layer to melt. When cooling down, the individual windings are firmly bonded together by the baked varnish and are thus prevented from vibrating and the original signal remains uncorrupted. Unfortunately, self-bonding wires are only available in diameters from 0.50 to 1.40mm.

Vacuum impregnation is another procedure, equally effective as heat bonding, which we offer for coils with larger wire diameters (2.00 to 3.90mm). In vacuum impregnation, the coil is first impregnated with a special lacquer up to the innermost windings under vacuum. Subsequently, the impregnated coil is dried at 130° Celsius. Thus the whole coil is baked into a very solid unit.

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Hepta strand

The use of a strand of **seven individually isolated OFC self-bonding wires** gives the reproduction of music a fine, smooth, harmonic character, which is rich in detail at the same time. These acoustic characteristics are praised and appreciated by our customers, in particular when it comes to the musical ‘cultivation’ of speaker chassis with a tendency to tonal sharpness or hardness without having a negative impact on qualities such as brilliance and richness in detail.

The character is mainly formed by the use of round wires as single conductors and their special stranding. The baked winding and the reinforced PA coil body together form a winding unit of **highest mechanical stability** and tranquillity. Distortions and discolorations of the music signal are thus largely eliminated. In addition, the large surface of the seven-fold strand improves the effective conductivity for higher-frequent AC (skin effect). Our 7 x 0.6mm strand corresponds to a round wire diameter of approx. 1.60mm.

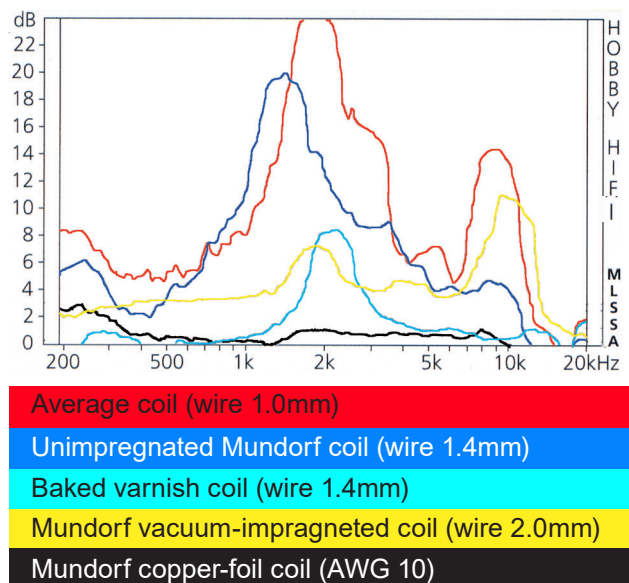
Foil coils

The reproduction of music by coils made of **solid metal foil** (also referred to as ribbon coils) excels by extraordinary dynamics, unparalleled detail and holographic spatial quality and lowest distortions and discolorations - Even finest nuances are represented in a realistic manner. Mundorf foil coils have thus become an integral part of many top-class audiophile products.

With its individual coils wound on each other, the foil coil corresponds to the **physically ideal coil** more than any other design. This is for example reflected in the quality of the coil which remains constant up to beyond 100 kilohertz. Furthermore, these coils are particularly **low-capacitive**, even though the similarity to a wound capacitor suggests the opposite so that even very high frequencies are isolated effectively. In addition, the large surface of the metal film improves the effective conductivity for higher-frequency alternating current (skin effect).

Another remarkable feature is the **high mechanical stability** of these coil types, which are carefully baked by hand: Due to the **large contact surface** between the individual windings and the visco-plastic isolation of the polypropylene foil the oscillations of the individual windings are eliminated effectively. These advantages can be seen clearly in the diagram shown below: Foil coils have the **lowest measured vibrations**. We offer copper foils in widths corresponding to round wire diameters of approx. 1.25mm • 1.60mm • 2.00mm and 2.50mm.

Vibrations of coils



The sound characteristics of a coil are not only determined by the coil wire (see p. 30) and the manufacturing quality but also by the coil core used. As the use of different cores results in coils with different advantages and disadvantages we offer **four core materials** and a total of seven core types. This enables us to manufacture exactly the right coil for each application.

In order to avoid microphonic effects, all Mundorf coils are wound on a coil body. This ensures mechanical stabilisation of the winding, decoupling of the coil from the board and, in addition, facilitates the manufacturing process.

Air coils

The ideal core material for coils is air. Air cored coils are, for physical reasons, superior to all metal core coils as far as accurate pulse reproduction and freedom from distortion are concerned. They can be used in all areas; either as highpass filter in the middle frequency range, as bass coil (with large conductor cross section) or in correcting components (with thin wire cross section).

Precision, dynamic, subtle tonal gradations, great detail and liveliness distinguish coils with air core from all others. In high-quality speakers, they are thus the basis for realistic and harmonic musical enjoyment. (from p. 33)

Core coils

Core coils have a metal core which reinforces the magnetic field. Compared to air coils, smaller, cheaper coils with higher inductivity and lower ohmic resistance can be realised. However, the metal core also affects the music signal (among other things due to unwanted distortions).

Ferrite cores are sintered from a metal-plastic-powder. The high-performance material HP3616 we use is characterised by low elementary distortions and low hysteresis losses (= rapid change in magnetization). The marginal music signal delay makes ferrite inductors perfectly suitable for equalization networks and mid-driver applications. Additionally our HP3616 is also well-suited for low-power mid-woofers. (from p. 40)

Aronit cores (also known as P cores) are made of metal-ceramics-powder, which causes only low power distortions. Due to their compact dimensions, low RDC and excellent price/performance-ratio they are perfectly suitable for woofer, subwoofer and PA applications. (from p. 40)

Feron cores consist of an iron-silicon alloy (also called electrical sheets). Our high-performance transformer plates are rolled and tampered several times using special procedures so that all crystals are oriented in the same direction (grain oriented) and a uniform crystal-lattice structure is obtained. Mundorf Feron core coils thus differ from conventional, similar looking coils in a measurable and audible way. They stand out due to minimum basic distortion, magnetic reversal losses and distortions while having a high performance and are thus suitable for flexible applications. (from p. 44)

Zero-Ohm Coils (ZOC) are a speciality of our company. In the ZOC, an air gap is calibrated and precisely adjusted by hand between two sheet metal packages made of Feron. The air gap determines the inductivity of the coil and demands great care in the manufacturing process. The high production costs of the ZOC are always justified when maximum faithfulness in pulse reproduction of the playback is required. This special form of the Feron core coil helps to realise lower internal resistances as compared to other core types. (from p. 46)

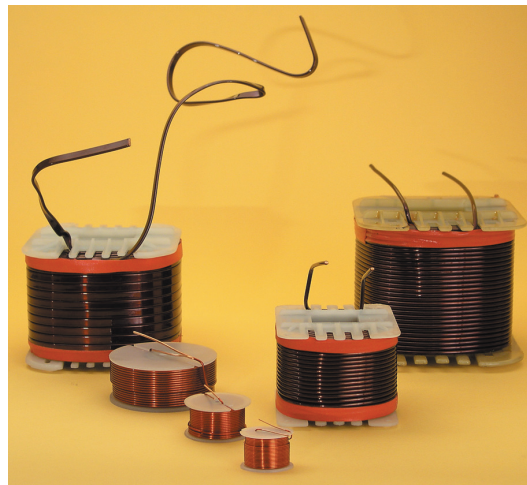
MCoil Air Coils made from massive copper round-wire have been specially developed for high quality loudspeakers, which focus on achieving an utmost natural, detailed and acoustically balanced music performance.

The acoustical properties of the **L** series can yet be significantly enhanced by applying Baked Wire Treatment - on air coils using wires with a larger cross-section - by Vacuum Impregnation.

Baked Wire Treatment coils are listed as **BL** in the following table. Vacuum impregnated coils are marked **VL**.

Please find detailed information on the advantages of different coil technologies on pages 30 to 32.

Key words: **Air coils • OFC-Copper • Solid Core**



Technical specifications:

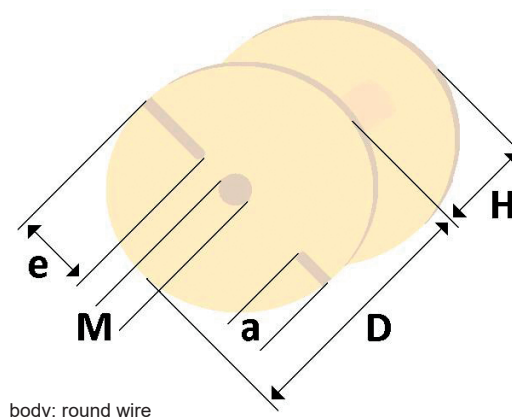
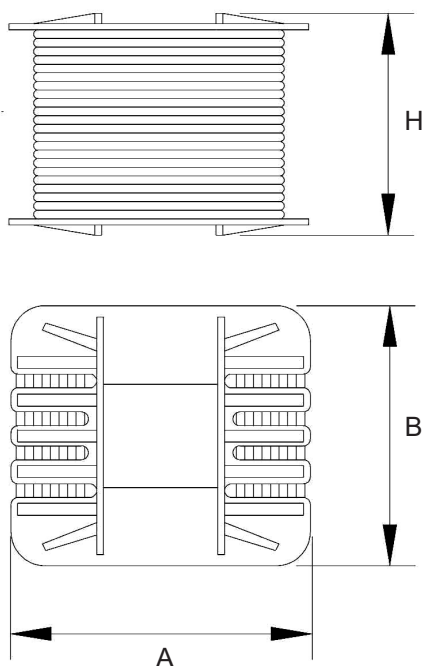
OFC-Copper 99.99%

Coil form: PA, fibre-glass reinforced

Coil body heat resistant up to max. 230°C/446°F

Body cubical	A	B	H
Dimensions [mm]			
106	89	76	61
130	105	93	79
150	123	108	89
170	151	120	106
195	162	136	138

Body round	D	H	M	a	e
Dimensions [mm]					
2510	25	10	5	3	6
3020	30	20	5	3	9
4020	40	20	5	5	12
5818	58	18	5	6	20
5822	58	22	5	10	20
5828	58	28	5	10	20
7029	70	29	5	10	22
7728	77	28	5	6	26
7059	70	59	22	10	22



Air-core coils, wire Ø 0.50 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	L50	
			[€]	[€]
0,10	0,36	2510	3,19	
0,12	0,42	2510	3,29	
0,15	0,45	2510	3,29	
0,18	0,52	2510	3,69	
0,22	0,59	2510	3,99	
0,27	0,67	2510	4,29	
0,33	0,78	2510	4,59	
0,39	0,85	2510	4,89	
0,47	1,08	3020	5,19	
0,56	1,16	3020	5,49	
0,68	1,31	3020	5,79	
0,82	1,40	3020	6,09	
1,0	1,65	3020	6,39	
1,2	1,80	3020	6,79	
1,5	1,98	3020	7,19	
1,8	2,26	3020	7,59	
2,0	2,37	3020	7,99	
2,2	2,47	3020	8,39	
2,7	2,81	3020	8,79	
3,0	2,98	3020	9,19	
3,3	3,13	3020	9,59	
3,9	3,49	4020	9,99	
4,7	3,85	4020	10,90	

Air-core coils, wire Ø 0.71 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	L71		BL71	
			[€]	[€]	[€]	[€]
0,10	0,23	2510	3,59		5,69	
0,12	0,28	3020	3,79		5,79	
0,15	0,31	3020	3,99		5,89	
0,18	0,34	3020	4,19		5,99	
0,22	0,38	3020	4,39		6,19	
0,27	0,42	3020	4,59		6,39	
0,33	0,47	3020	4,79		6,69	
0,39	0,52	3020	4,99		6,99	
0,47	0,58	3020	5,29		7,49	
0,56	0,64	3020	5,59		7,99	
0,68	0,71	3020	5,99		8,49	
0,82	0,79	3020	6,49		8,99	
1,0	0,88	3020	6,99		9,49	
1,2	0,99	4020	7,49		9,99	
1,5	1,11	4020	7,99		10,50	
1,8	1,22	4020	8,49		10,90	
2,0	1,31	4020	9,19		11,50	
2,2	1,39	4020	9,99		11,90	
2,7	1,53	4020	10,50		12,90	
3,0	1,63	4020	10,90		13,90	
3,3	1,76	4020	11,90		14,90	
3,9	1,91	5818	12,90		15,90	
4,7	2,19	5818	13,90		16,90	
5,6	2,35	5818	14,90		17,90	
6,8	2,61	5818	16,90		19,90	
8,2	3,05	5828	18,90		23,90	
10	3,38	5828	20,90		27,90	
12	3,65	7029	22,90		31,90	
15	4,30	7029	25,90		35,90	
18	4,77	7029	28,90		39,90	
22	5,26	7029	31,90		47,90	
27	5,95	7029	35,90		55,90	

NEW Air-core coils, wire Ø 0.71 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	BL71	
			[€]	[€]
0,010	0,06	2510	4,49	
0,015	0,08	2510	4,69	
0,022	0,09	2510	4,89	
0,033	0,11	2510	5,09	
0,047	0,14	2510	5,29	
0,068	0,18	2510	5,49	

Air-core coils, wire Ø 1.00 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	L100		BL100	
			[€]	[€]	[€]	[€]
0,10	0,14	3020	5,19		7,19	
0,12	0,15	3020	5,49		7,49	
0,15	0,17	3020	5,99		7,79	
0,18	0,19	3020	6,49		8,19	
0,22	0,21	3020	6,99		8,59	
0,27	0,23	3020	7,49		8,99	
0,33	0,26	4020	7,99		9,49	
0,39	0,29	4020	8,49		9,99	
0,47	0,32	4020	8,99		10,50	
0,56	0,36	4020	9,49		10,90	
0,68	0,39	4020	9,99		11,90	
0,82	0,44	4020	10,90		12,90	
1,0	0,49	5818	11,90		13,90	
1,2	0,54	5818	12,90		14,90	
1,5	0,62	5818	13,90		15,90	
1,8	0,70	5818	14,90		16,90	
2,0	0,74	5822	15,90		17,90	
2,2	0,77	5822	16,90		18,90	
2,7	0,90	5828	17,90		20,50	
3,0	0,98	5828	18,90		21,90	
3,3	1,00	5828	19,90		22,50	
3,9	1,13	5828	21,90		23,90	
4,7	1,22	7029	23,90		25,90	
5,6	1,35	7029	26,90		28,90	
6,8	1,56	7029	29,90		31,90	
8,2	1,69	7029	32,90		34,90	
10	1,91	7028	35,90		39,90	
12	2,14	7728	38,90		46,90	
15	2,41	7728	41,90		54,90	

Air-core coils, wire Ø 1.25 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	L125		BL125	
			[€]	[€]	[€]	[€]
0,10	0,09	3020	6,99		8,99	
0,12	0,10	3020	7,49		9,49	
0,15	0,11	4020	7,99		9,99	
0,18	0,13	4020	8,49		10,90	
0,22	0,14	4020	8,99		11,90	
0,27	0,15	5818	9,99		12,90	
0,33	0,18	5818	10,90		13,90	
0,39	0,20	5818	11,90		14,90	
0,47	0,22	5818	12,90		15,90	
0,56	0,24	5818	13,90		16,90	
0,68	0,28	5818	14,90		17,90	
0,82	0,29	5818	15,90		19,90	
1,0	0,34	5822	16,90		21,90	
1,2	0,44	5828	17,90		23,90	
1,5	0,47	5828	18,90		25,90	
1,8	0,55	5828	19,90		27,90	
2,0	0,55	5828	21,90		29,90	
2,2	0,57	7029	23,90		31,90	
2,7	0,61	7029	25,90		33,90	
3,0	0,65	7029	27,90		35,90	
3,3	0,69	7029	29,90		37,90	
3,9	0,75	7029	31,90		39,90	
4,7	0,84	7728	34,90		44,90	
5,6	0,95	7728	39,90		49,90	
6,8	1,19	7059	44,90		54,90	
8,2	1,34	7059	49,90		59,90	
10	1,49	7059	54,90		64,90	

Air-core coils, wire Ø 1.40 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	L140	BL140
			[€]	[€]
0,10	0,07	4020	8,49	9,90
0,12	0,08	4020	9,19	10,90
0,15	0,10	4020	9,99	11,90
0,18	0,11	5818	10,90	12,90
0,22	0,12	5818	11,90	13,90
0,27	0,13	5818	12,90	14,90
0,33	0,15	5818	13,90	15,90
0,39	0,16	5818	14,90	16,90
0,47	0,19	5818	15,90	17,90
0,56	0,20	5822	16,90	18,90
0,68	0,23	5828	17,90	19,90
0,82	0,26	5828	18,90	21,90
1,0	0,28	5828	19,90	23,90
1,2	0,31	7029	21,90	25,90
1,5	0,38	7029	23,90	27,90
1,8	0,40	7029	25,90	29,90
2,0	0,43	7029	27,90	31,90
2,2	0,46	7029	29,90	33,90
2,7	0,51	7728	31,90	36,90
3,0	0,55	7728	33,90	39,90
3,3	0,58	7728	36,90	44,90
3,9	0,65	7728	39,90	49,90
4,7	0,77	7059	44,90	54,90
5,6	0,89	7059	49,90	59,90
6,8	0,96	7059	55,90	64,90
8,2	1,10	7059	61,90	69,90

NEW Air-core coils, wire Ø 1.80 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	BL180	
			[€]	[€]
0,10	0,05	5818		11,90
0,12	0,05	5818		12,90
0,15	0,06	5818		13,90
0,18	0,07	5818		14,90
0,22	0,08	5822		15,90
0,27	0,09	5828		17,90
0,33	0,10	5828		19,90
0,39	0,11	5828		21,90
0,47	0,12	7029		23,90
0,56	0,14	7029		25,90
0,68	0,15	7029		27,90
0,82	0,17	7029		29,90
1,0	0,20	7728		32,90
1,2	0,22	7728		35,90
1,5	0,28	7059		39,90
1,8	0,31	7059		43,90
2,0	0,32	7059		47,90
2,2	0,34	7059		51,90
2,7	0,39	7059		55,90
3,0	0,40	106		59,90
3,3	0,42	106		64,90
3,9	0,47	106		69,90
4,7	0,53	130		79,90
5,6	0,59	130		89,90
6,8	0,65	130		99,90
8,2	0,72	130		109,90
10	0,80	130		119,90
12	0,90	130		129,90

NEW Air-core coils, wire Ø 2.36 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	L236	VL236
			[€]	[€]
0,10	0,04	5828	17,90	24,90
0,12	0,04	5828	18,90	25,90
0,15	0,05	5828	19,90	26,90
0,18	0,05	5828	21,90	27,90
0,22	0,06	5828	23,90	29,90
0,27	0,06	7029	25,90	31,90
0,33	0,07	7728	27,90	33,90
0,39	0,08	7728	29,90	36,90
0,47	0,09	7059	32,90	39,90
0,56	0,10	7059	35,90	42,90
0,68	0,11	7059	39,90	45,90
0,82	0,12	7059	44,90	49,90
1,0	0,14	7059	49,90	54,90
1,2	0,15	106	59,90	59,90
1,5	0,17	106	64,90	64,90
1,8	0,20	130	69,90	69,90
2,0	0,21	130	74,90	75,90
2,2	0,22	130	79,90	82,90
2,7	0,25	130	84,90	89,90
3,0	0,26	130	89,90	99,90
3,3	0,28	130	99,90	109,90
3,9	0,30	130	109,90	119,90
4,7	0,34	150	119,90	129,90
5,6	0,38	150	129,90	139,90
6,8	0,42	150	139,90	149,90
8,2	0,46	150	159,90	169,90
10	0,54	170	179,90	189,90
12	0,59	170	199,90	214,90
15	0,67	170	219,90	239,90
18	0,74	170	249,90	269,90

Air-core coils, wire Ø 3.00 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	L300	VL300
			[€]	[€]
0,10	0,02	7029	33,90	39,90
0,12	0,03	7029	36,90	42,90
0,15	0,03	7728	39,90	45,90
0,18	0,04	7728	42,90	49,90
0,22	0,04	7059	45,90	53,90
0,27	0,04	7059	48,90	57,90
0,33	0,05	7059	51,90	61,90
0,39	0,05	7059	55,90	65,90
0,47	0,06	7059	59,90	69,90
0,56	0,06	130	69,90	79,90
0,68	0,07	130	79,90	89,90
0,82	0,08	130	89,90	99,90
1,0	0,09	130	99,90	109,90
1,2	0,10	130	109,90	119,90
1,5	0,12	130	124,90	134,90
1,8	0,13	150	139,90	149,90
2,0	0,14	150	154,90	164,90
2,2	0,15	150	169,90	179,90
2,7	0,17	150	184,90	194,90
3,0	0,18	150	199,90	209,90
3,3	0,19	150	219,90	229,90
3,9	0,21	170	239,90	249,90
4,7	0,24	170	259,90	269,90
5,6	0,25	170	289,90	299,90
6,8	0,29	170	319,90	329,90
8,2	0,32	170	349,90	369,90
10	0,38	195	399,90	429,90
12	0,42	195	459,90	489,90
15	0,46	195	519,90	549,90

Air-core coils, wire 6 * 2 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	L390	VL390
			[€]	[€]
0,10	0,01	106	61,90	69,90
0,12	0,01	106	64,90	74,90
0,15	0,02	130	69,90	79,90
0,18	0,02	130	79,90	84,90
0,22	0,03	130	89,90	89,90
0,27	0,03	130	99,90	99,90
0,33	0,03	130	109,90	114,90
0,39	0,04	130	119,90	129,90
0,47	0,04	150	139,90	149,90
0,56	0,04	150	159,90	169,90
0,68	0,05	150	179,90	189,90
0,82	0,06	150	199,90	219,90
1,0	0,06	170	229,90	249,90
1,2	0,07	170	259,90	279,90
1,5	0,08	170	289,90	309,90
1,8	0,09	170	319,90	339,90
2,0	0,11	170	349,90	369,90
2,2	0,12	170	379,90	399,90
2,7	0,13	195	419,90	439,90
3,0	0,14	195	459,90	479,90
3,3	0,15	195	499,90	519,90
3,9	0,17	195	539,90	559,90
4,7	0,19	195	579,90	604,90
5,6	0,22	195	629,90	659,90

MCoil Hepta Strand coils unite the tonal clarity, beauty and distortion-free performance of air core coils with the stereophonic spaciousness of tightly-wound coils, alongside the harmonious-warmth and splendid brightness of strand copper wire.

They are therefore the first choice for high quality high and mid frequency applications which focus on a finely detailed, utmost refined musical fidelity performed within a truly holographic life-like staging.

Please find detailed information on the ad-vantages of different coil technologies on pages 30 to 32.

Key words: **Air coils • OFC-Copper • Hepta Strand**



Technical specifications:

OFC-Copper 99.99%
Coil form: PA, fibre-glass reinforced
Coil body heat resistant up to max. 230°C/446°F

NEW Air-core coils, litz of wire 7 * 0.45 mm, baked varnish

Cross-section 1,11 mm² ± round wire Ø 1.19 mm

Inductance [mH] ±2%	RDC [Ohm]	Body	LL45 [€]
0,10	0,11	4020	9,99
0,12	0,12	4020	10,90
0,15	0,14	4020	11,90
0,18	0,17	4020	12,90
0,22	0,18	5818	13,90
0,27	0,20	5818	14,90
0,33	0,22	5818	15,90
0,39	0,24	5818	17,90
0,47	0,27	5822	19,90
0,56	0,30	5822	21,90
0,68	0,34	5828	23,90
0,82	0,38	5828	25,90
1,0	0,42	5828	27,90
1,2	0,46	7029	29,90
1,5	0,51	7029	31,90
1,8	0,56	7029	33,90
2,0	0,61	7029	36,90
2,2	0,66	7728	39,90
2,7	0,76	7728	44,90
3,0	0,81	7728	49,90
3,3	0,93	7059	54,90
3,9	1,01	7059	59,90
4,7	1,16	7059	64,90
5,6	1,29	7059	69,90
6,8	1,42	7059	79,90

MCoil FC foil coils are wound layer by layer and are of particularly low-capacitive, even though their similarity to our foil wound capacitors would suggest otherwise.

Their unique performance quality unites the tonal virtues of OFC Copper foil with the clarity and precision generally typical for all air core coils, alongside the authenticity of a tightly cemented reel which is practically microphonic-free.

For High-End mid and high frequency applications, they are particularly distinguished by their 3D-like staging, their harmoniously-dynamic vitality and detailed performance.

If you want truly distortion-free but multi-faceted and all-musical beauty, you may consider copper foil coils as first choice for your bass coils.

Please find detailed information on the advantages of different coil technologies on pages 30 to 32.

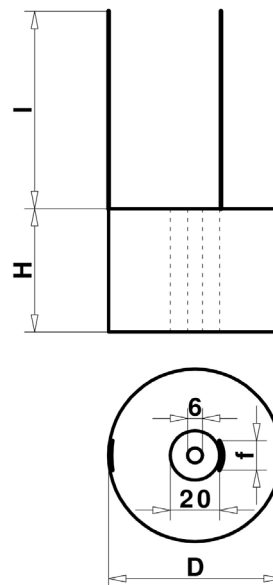
Key words: **Air coils** • **OFC-copper** • **Foil coils**

AWG	Foil W*H [mm]	Insulation [μm]	Cross section [mm ²]	≅ round wire Ø [mm]	f ±1 [mm]
...FC16	17 * 0,07	20	1,19	1,23	17
...FC14	28 * 0,07	20	1,96	1,58	15
...FC12	44 * 0,07	20	3,08	1,98	16
...FC10	70 * 0,07	20	4,90	2,50	19
...FC7	70 * 0,15	30	10,50	3,70	19



Technical specifications:

Cu-Foil: 70 μ / OFC-Copper 99,99% pure
Insulation: Polypropylen 20 μ / central bore: 6 mm
Permissible ambient temperature: 85°C/185°F



Air-core coils, foil 17 mm

Cross-section 1.19 mm² ± round wire Ø 1.23

CFC16

Inductance [mH] ±2%	RDC [Ohm]	Ø * H [mm]	[€]
0,10	0,10	34 * 24	12,50
0,12	0,11	35 * 24	12,90
0,15	0,12	37 * 24	13,90
0,18	0,13	38 * 24	14,90
0,22	0,15	39 * 24	15,90
0,27	0,16	42 * 24	16,90
0,33	0,18	44 * 24	17,90
0,39	0,20	46 * 24	18,90
0,47	0,23	48 * 24	19,90
0,56	0,26	50 * 24	20,90
0,68	0,29	52 * 24	22,50
0,82	0,31	54 * 24	23,90
1,0	0,37	57 * 24	25,90
1,2	0,41	61 * 24	27,90
1,5	0,47	65 * 24	29,90
1,8	0,50	68 * 24	31,90
2,0	0,55	70 * 24	33,90
2,2	0,58	69 * 24	35,90
2,7	0,65	77 * 24	38,90
3,0	0,70	79 * 24	41,90
3,3	0,74	81 * 24	45,90
3,9	0,84	85 * 24	49,90
4,7	0,93	88 * 24	54,90
5,6	1,05	93 * 24	59,90
6,8	1,18	100 * 24	64,90
8,2	1,31	108 * 24	69,90

Air-core coils, foil 28 mm

Cross-section 1.96 mm² ± round wire Ø 1.58 mm

CFC14

Inductance [mH] ±2%	RDC [Ohm]	Ø * H [mm]	[€]
0,10	0,07	36 * 34	16,90
0,12	0,08	38 * 34	17,90
0,15	0,09	40 * 34	18,90
0,18	0,10	41 * 34	19,90
0,22	0,11	44 * 34	21,90
0,27	0,12	46 * 34	23,90
0,33	0,13	48 * 34	25,90
0,39	0,14	50 * 34	27,90
0,47	0,16	52 * 34	29,90
0,56	0,18	54 * 34	31,90
0,68	0,20	56 * 34	33,90
0,82	0,22	59 * 34	35,90
1,0	0,26	62 * 34	37,90
1,2	0,29	65 * 34	39,90
1,5	0,33	69 * 34	44,90
1,8	0,36	72 * 34	49,90
2,0	0,39	75 * 34	52,50
2,2	0,41	77 * 34	54,90
2,7	0,46	82 * 34	59,90
3,0	0,48	84 * 34	64,90
3,3	0,50	85 * 34	69,90
3,9	0,55	89 * 34	74,90
4,7	0,62	94 * 34	79,90
5,6	0,68	99 * 34	89,90
6,8	0,78	101 * 34	99,90
8,2	0,86	109 * 34	114,90
10	0,90	114 * 34	129,90
12	0,95	118 * 34	149,90
15	1,20	125 * 34	179,90



Air-core coils, foil 44 mm

Cross-section 3.08 mm² ± round wire Ø 1.98

CFC12

Inductance [mH] ±2%	RDC [Ohm]	Ø * H [mm]	[€]
0,10	0,05	41 * 52	26,90
0,12	0,06	41 * 52	27,90
0,15	0,06	44 * 52	29,90
0,18	0,07	45 * 52	31,90
0,22	0,08	47 * 52	33,90
0,27	0,09	49 * 52	36,90
0,33	0,10	51 * 52	39,90
0,39	0,11	53 * 52	42,90
0,47	0,12	55 * 52	45,90
0,56	0,14	57 * 52	49,90
0,68	0,15	60 * 52	54,90
0,82	0,17	64 * 52	59,90
1,0	0,19	68 * 52	65,90
1,2	0,21	70 * 52	72,90
1,5	0,24	74 * 52	79,90
1,8	0,26	76 * 52	89,90
2,0	0,28	80 * 52	94,90
2,2	0,29	81 * 52	99,90
2,7	0,32	84 * 52	109,90
3,0	0,35	88 * 52	119,90
3,3	0,37	91 * 52	129,90
3,9	0,39	95 * 52	139,90
4,7	0,46	96 * 52	149,90
5,6	0,50	105 * 52	164,90
6,8	0,56	110 * 52	179,90
8,2	0,63	117 * 52	209,90
10	0,72	120 * 52	239,90
12	0,80	128 * 52	269,90
15	0,88	132 * 52	299,90
18	0,99	135 * 52	329,90

Air-core coils, foil 70 mm

Cross-section 4.90 mm² ± round wire Ø 2.50 mm

CFC10

Inductance [mH] ±2%	RDC [Ohm]	Ø * H [mm]	[€]
0,10	0,04	43 * 77	39,90
0,12	0,04	44 * 77	44,90
0,15	0,05	47 * 77	49,90
0,18	0,05	48 * 77	54,90
0,22	0,06	50 * 77	59,90
0,27	0,06	53 * 77	69,90
0,33	0,07	56 * 77	79,90
0,39	0,08	57 * 77	89,90
0,47	0,09	59 * 77	99,90
0,56	0,10	62 * 77	109,90
0,68	0,11	65 * 77	119,90
0,82	0,12	67 * 77	129,90
1,0	0,14	71 * 77	139,90
1,2	0,15	76 * 77	149,90
1,5	0,17	80 * 77	164,90
1,8	0,19	83 * 77	179,90
2,0	0,20	83 * 77	194,90
2,2	0,21	88 * 77	209,90
2,7	0,23	93 * 77	224,90
3,0	0,25	93 * 77	239,90
3,3	0,27	97 * 77	254,90
3,9	0,28	104 * 77	269,90
4,7	0,31	108 * 77	299,90
5,6	0,36	111 * 77	329,90
6,8	0,41	121 * 77	369,90
8,2	0,47	124 * 77	409,90
10	0,54	130 * 77	449,90
12	0,60	132 * 77	499,90
15	0,66	136 * 77	549,90

Air-core coils, foil 70 mm

Cross-section 10.50 mm² ± round wire Ø 3.70 mm

CFC7

Inductance [mH] ±2%	RDC [Ohm]	Ø * H [mm]	[€]
0,10	0,02	67 * 78	99,90
0,12	0,02	68 * 78	109,90
0,15	0,03	72 * 78	119,90
0,18	0,03	74 * 78	129,90
0,22	0,03	77 * 78	149,90
0,27	0,04	81 * 78	169,90
0,33	0,04	85 * 78	199,90
0,39	0,05	86 * 78	229,90
0,47	0,05	89 * 78	259,90
0,56	0,06	93 * 78	289,90
0,68	0,06	98 * 78	319,90
0,82	0,07	102 * 78	349,90
1,0	0,08	106 * 78	379,90
1,2	0,09	113 * 78	419,90
1,5	0,10	118 * 78	459,90
1,8	0,11	122 * 78	499,90
2,0	0,12	125 * 78	539,90
2,2	0,12	129 * 78	579,90
2,7	0,13	133 * 78	619,90
3,0	0,14	137 * 78	659,90
3,3	0,17	143 * 78	699,90

MCoil SFC silverfoil coils have been developed for uncompromising state-of-the-art audio applications focused on absolutely flawless and a holographic 3D-like performance at utmost dynamics providing a considerably increased range of vivid, subtle timbres and precision.

Their acoustic features unite the typical tonal beauty and authenticity of air core coils with the three-dimensional staging of a tightly cemented, microphonic-free reel alongside the outstanding tonal properties of silver foil in terms of multi-faceted and truly 'life-like' performance of voices and instruments.

However, the exceptional tonal quality of the **SFC** series can be further enhanced by adding 1% of the purest gold making it the **SGFC** series then.

Please find detailed information on the advantages of the different coil technologies on pages 30 to 32.
Key words: **Air coils • Silver/SilverGold • Foil coils**



Technical specifications:

Insulation: Polypropylene (20µm)
SFC Conductor: Silver (70µm)
SGFC Conductor: 99% Silver + 1% Gold (70µm)
Conductor's Purity: min. 99,97% typ. 99,99%
Mounting Hole Ø: 6 mm

Air-core coils, foil 17 mm, Silver/SilverGold

Cross-section 1.19 mm² ± round wire Ø 1.23 mm

Inductance [mH] ±2%	RDC [Ohm]	Ø * H [mm]	SFC16	SGFC16
			[€]	[€]
0,10	0,08	34 * 24		
0,15	0,10	37 * 24	on request	
0,22	0,12	38 * 24		
0,33	0,15	44 * 24		
0,47	0,19	48 * 24		
0,68	0,24	52 * 24		
1,0	0,30	57 * 24		
1,5	0,38	65 * 24		
2,2	0,48	72 * 24		
2,7	0,52	77 * 24		
3,3	0,60	81 * 24		
3,9	0,68	85 * 24		
4,7	0,75	88 * 24		
5,6	0,84	93 * 24		

Air-core coils, foil 28 mm, Silver/SilverGold

Cross-section 1.96 mm² ± round wire Ø 1.58 mm

Inductance [mH] ±2%	RDC [Ohm]	Ø * H [mm]	SFC14	SGFC14
			[€]	[€]
0,10	0,06	36 * 34		
0,15	0,08	40 * 34	on request	
0,22	0,09	44 * 34		
0,33	0,11	48 * 34		
0,47	0,13	52 * 34		
0,68	0,16	56 * 34		
1,0	0,21	62 * 34		
1,5	0,27	69 * 34		
2,2	0,33	77 * 34		
2,7	0,37	82 * 34		
3,3	0,40	85 * 34		
3,9	0,44	89 * 34		
4,7	0,50	94 * 34		
5,6	0,55	99 * 34		

Air-core coils, foil 44 mm, Silver/SilverGold

Cross-section 3.08 mm² ± round wire Ø 1.98 mm

Inductance [mH] ±2%	RDC [Ohm]	Ø * H [mm]	SFC12	SGFC12
			[€]	[€]
0,22	0,07	47 * 52		
0,33	0,08	51 * 52	on request	
0,47	0,10	55 * 52		
0,68	0,12	60 * 52		
1,0	0,16	67 * 52		
1,5	0,20	74 * 52		
2,2	0,24	82 * 52		
3,3	0,30	91 * 52		
3,9	0,32	95 * 52		
4,7	0,37	100 * 52		
5,6	0,40	105 * 52		

Air-core coils, foil 70 mm, Silver/SilverGold

Cross-section 4.90 mm² ± round wire Ø 2.50 mm

Inductance [mH] ±2%	RDC [Ohm]	Ø * H [mm]	SFC10	SGFC10
			[€]	[€]
1,0	0,12	71 * 77		
1,5	0,14	80 * 77	on request	
2,2	0,17	88 * 77		
2,7	0,19	91 * 77		
3,3	0,22	97 * 77		
3,9	0,23	104 * 77		
4,7	0,25	108 * 77		
5,6	0,29	111 * 77		
6,8	0,33	121 * 77		
8,2	0,38	124 * 77		
10	0,47	128 * 77		
12	0,55	134 * 77		
15	0,69	141 * 77		

FERRITE / ARONIT Core MCoil PipeCore



The smaller **MCoil FERRITE PipeCore Coils** made from solid core copper wire, have been specially developed for mid, low and parallel applications, for which compact dimensions and a reasonable price/performance-ratio are of essential importance as given for, e.g., adjustment devices or car audio crossovers.

The larger **MCoil ARONIT PipeCore Coils** combine the balanced, detailed and dynamic tone colour of OFC round wire with the low output distortions and internal resistance of Aronit cores. They are therefore an excellent choice for good value and compact yet heavy-duty midwoofer, woofer and subwoofer coils, including for PA applications.

The tonal qualities of the **P** series and its much satisfying music performance can yet be enhanced by Baked Varnish as shown for the **BP** series.

Please find detailed information on the advantages of different coil technologies on pages 30 to 32. Key words:

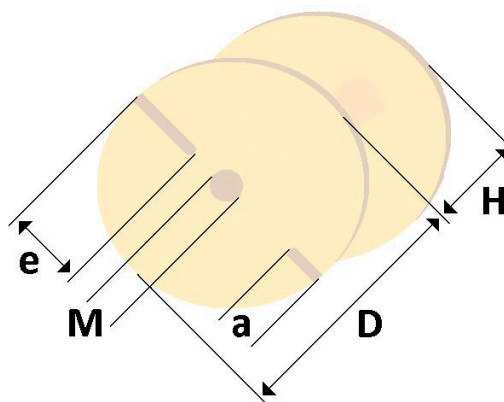
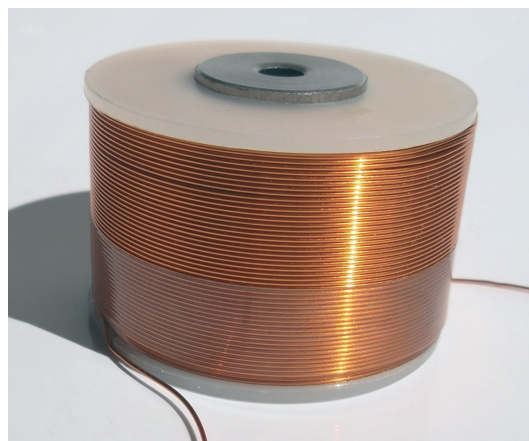
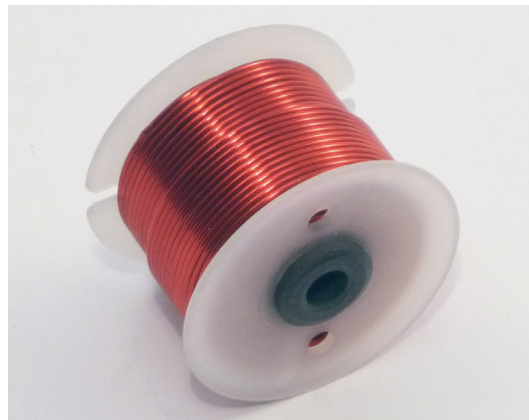
Ferrite Core • OFC-Copper • Solid Core

Technical specifications:

OFC-Copper 99.99%

Coil form: PA, fibre-glass reinforced

Coil body heat resistant up to max. 230°C/446°F



Body	D	H	M	Dimensions [mm]	
				a	e
F3023	30	23	4	3	9
F4023	40	23	4	5	12
A4530	45	30	5	7	11

PipeCore Coils, wire Ø 0,50 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	P50	
			[€]	
2,7	1,48	F3023	6,99	
3,0	1,59	F3023	7,29	
3,3	1,71	F3023	7,59	
3,9	1,81	F3023	7,99	
4,7	2,15	F3023	8,49	
5,6	2,29	F3023	8,99	
6,8	2,63	F3023	9,99	
8,2	3,01	F3023	10,9	
10	3,50	F4023	11,90	
12	4,08	F4023	12,90	
15	4,79	F4023	13,90	
18	5,77	F4023	15,90	
22	6,58	F4023	17,90	

PipeCore Coils, wire Ø 0,71 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	P71		BP71	
			[€]		[€]	
0,68	0,36	F3023	5,19		7,19	
0,82	0,41	F3023	5,49		7,39	
1,0	0,46	F3023	5,79		7,79	
1,2	0,57	F3023	6,19		8,19	
1,5	0,61	F3023	6,59		8,59	
1,8	0,73	F3023	6,99		8,99	
2,0	0,76	F3023	7,39		9,49	
2,2	0,81	F3023	7,79		9,99	
2,7	1,01	F4023	8,19		10,50	
3,0	1,04	F4023	8,59		10,90	
3,3	1,08	F4023	8,99		11,90	
3,9	1,23	F4023	9,99		12,90	
4,7	1,37	F4023	10,90		13,90	
5,6	1,46	A4530	11,90		14,90	
6,8	1,65	A4530	12,90		15,90	
8,2	1,89	A4530	13,90		16,90	
10	2,19	A4530	15,90		17,90	
12	2,55	A4530	17,90		19,90	

PipeCore Coils, wire Ø 1,00 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	P100		BP100	
			[€]		[€]	
0,27	0,13	F3023	5,99		8,19	
0,33	0,15	F3023	6,49		8,49	
0,39	0,16	F3023	6,99		8,79	
0,47	0,19	F3023	7,49		9,19	
0,56	0,21	F3023	7,99		9,59	
0,68	0,23	F4023	8,49		9,99	
0,82	0,27	F4023	8,99		10,50	
1,0	0,32	F4023	9,99		10,90	
1,2	0,37	F4023	10,90		11,90	
1,5	0,38	A4530	11,90		12,90	
1,8	0,44	A4530	12,90		13,90	
2,0	0,45	A4530	13,50		14,90	
2,2	0,47	A4530	13,90		15,90	
2,7	0,53	A4530	14,90		16,90	
3,3	0,64	A4530	15,90		17,90	
3,9	0,71	A4530	16,90		19,90	
4,7	0,80	A4530	18,90		21,90	

PipeCore Coils, wire Ø 1,25 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	P125		BP125	
			[€]		[€]	
1,2	0,24	A4530	15,90		17,90	
1,5	0,27	A4530	16,90		19,90	
1,8	0,31	A4530	17,90		21,90	
2,0	0,35	A4530	18,90		23,90	

Pipe-core coils, wire Ø 1,40 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	P140		BP140	
			[€]		[€]	
0,47	0,11	A4530	12,90		14,90	
0,56	0,13	A4530	13,90		15,90	
0,68	0,14	A4530	14,90		16,90	
0,82	0,16	A4530	15,90		17,90	
1,0	0,18	A4530	17,90		19,90	

FERRIT Core coils MCoil DrumCore



MCoil DrumCore made from oxygen-free copper (OFC) round-wire have been developed for applications for which compact dimensions, the lowest possible internal resistance and a great value for money are of key importance.

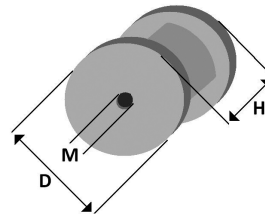
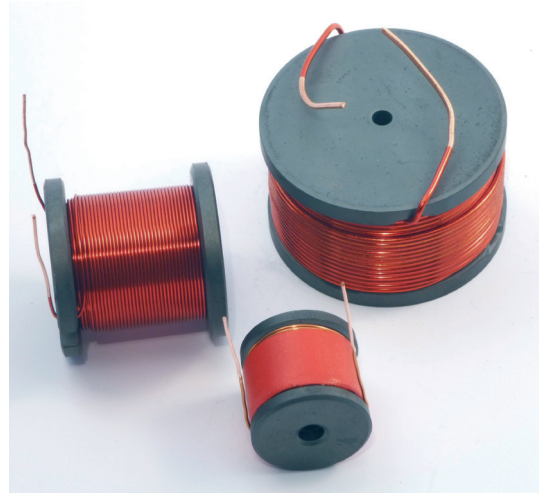
Because of their low high-load distortions, the **ARONIT** versions particularly distinguish in midwoofer, woofer and subwoofer applications.

The **FERRITE** types are highly recommended for middriver, midwoofer and parallel applications, due to their low basic distortion level. The tonal quality of these coils is a convincing blend of the typical harmoniously-neutral sound of solid core copper round-wire and the natural vitality and enhanced tonal dynamic of HP3616.

The fine properties of the **H** series can be further improved by applying Baked Varnish treatment as introduced with **BH** series. The all-new **LH** styles add the unique sound character of baked **OFC Hepta Strand wire**, which is same times very detailed and silky, to the superb core features.

Please find detailed information on the advantages of different coil technologies on pages 30 to 32. Key words:

Ferrite Cores • OFC-Copper • Solid Core



Body	D	H	M
	Dimensions [mm]		
F2625	26	25	5,2
F3025	30	25	5,3
F3525	35	25	5,3
F4037	40	37	5,6
A5151	51	51	6,4

NEW LH45

DrumCore Coils, litz of wire 7 * 0,45 mm, baked varnish

Cross-section 1,11 mm² \triangle round wire \varnothing 1,19 mm

Inductance [mH] $\pm 3\%$	RDC [Ohm]	Body	[€]
1,0	0,12	F4037	18,90
1,2	0,14	F4037	19,90
1,5	0,16	F4037	20,90
1,8	0,18	F4037	21,90
2,0	0,21	F4037	22,90
2,2	0,21	A5151	25,90
2,7	0,24	A5151	26,90
3,0	0,26	A5151	27,90
3,3	0,27	A5151	29,90
3,9	0,31	A5151	31,90
4,7	0,34	A5151	34,90
5,6	0,40	A5151	37,90
6,8	0,53	A5151	42,90

DrumCore Coils, wire Ø 0,50 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	H50	
			[€]	[€]
3,9	0,96	F2625	7,99	
4,7	1,06	F2625	8,19	
5,6	1,14	F2625	8,39	
6,8	1,31	F2625	8,69	
8,2	1,57	F2625	8,99	
10	1,50	F3025	9,99	
12	1,75	F3025	10,90	
15	2,01	F3025	11,90	
18	2,30	F3025	12,90	
22	2,67	F3025	13,90	
27	3,11	F3025	14,90	

DrumCore Coils, wire Ø 0,71 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	H71		BH71	
			[€]	[€]	[€]	[€]
1,0	0,22	F2625	6,59		8,59	
1,2	0,25	F2625	6,69		8,69	
1,5	0,29	F2625	6,79		8,79	
1,8	0,33	F2625	6,99		8,89	
2,0	0,35	F2625	7,19		8,99	
2,2	0,37	F2625	7,39		9,19	
2,7	0,43	F2625	7,59		9,39	
3,0	0,46	F2625	7,79		9,69	
3,3	0,50	F2625	7,99		9,99	
3,9	0,51	F3025	8,99		10,90	
4,7	0,58	F3025	9,49		11,50	
5,6	0,67	F3025	9,99		11,90	
6,8	0,65	F3525	10,50		12,50	
8,2	0,75	F3525	10,90		12,90	
10	0,87	F3525	11,90		13,50	
12	1,02	F3525	12,90		13,90	
15	1,15	F4037	15,90		17,90	
18	1,28	F4037	16,90		18,90	
22	1,49	F4037	17,90		19,90	
27	1,68	F4037	18,90		21,90	
33	1,93	F4037	20,90		23,90	
39	2,36	A5151	26,90		29,90	
47	2,80	A5151	28,90		31,90	

DrumCore Coils, wire Ø 1,00 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	H100		BH100	
			[€]	[€]	[€]	[€]
1,0	0,13	F3025	8,99		10,90	
1,2	0,15	F3025	9,49		11,50	
1,5	0,17	F3025	9,99		11,90	
1,8	0,18	F3525	10,50		12,50	
2,0	0,19	F3525	10,90		12,90	
2,2	0,20	F3525	11,50		13,50	
2,7	0,24	F3525	11,90		13,90	
3,0	0,26	F3525	12,90		14,90	
3,3	0,27	F4037	15,90		17,90	
3,9	0,30	F4037	16,90		18,50	
4,7	0,34	F4037	17,90		18,90	
5,6	0,39	F4037	18,90		19,90	
6,8	0,46	F4037	19,90		21,90	
8,2	0,56	A5151	23,90		25,90	
10	0,64	A5151	24,90		26,90	
12	0,72	A5151	26,90		27,90	
15	0,81	A5151	28,90		29,90	
18	0,95	A5151	30,90		31,90	
22	1,10	A5151	32,90		34,90	

NEW
NEW

DrumCore Coils, wire Ø 1,25 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	H125		BH125	
			[€]	[€]	[€]	[€]
0,68	0,09	F3025	10,90		12,90	
0,82	0,10	F3525	12,50		13,90	
1,0	0,11	F3525	12,90		14,90	
1,2	0,12	F3525	13,50		15,90	
1,5	0,12	F4037	15,90		18,90	
1,8	0,14	F4037	16,90		19,90	
2,0	0,15	F4037	17,50		20,50	
2,2	0,17	F4037	17,90		20,90	
2,7	0,19	F4037	18,90		21,90	
3,0	0,20	F4037	19,90		22,90	
3,3	0,22	F4037	20,90		23,90	
3,9	0,24	F4037	21,90		24,90	
4,7	0,27	A5151	26,90		29,90	
5,6	0,33	A5151	27,90		31,90	
6,8	0,37	A5151	28,90		33,90	
8,2	0,42	A5151	29,90		35,90	
10	0,48	A5151	30,90		37,90	
12	0,54	A5151	32,90		39,90	

NEW
NEW
NEW

DrumCore Coils, wire Ø 1,40 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	H140		BH140	
			[€]	[€]	[€]	[€]
1,0	0,08	F4037	16,90		18,90	
1,2	0,09	F4037	17,90		19,90	
1,5	0,10	F4037	18,90		20,90	
1,8	0,12	F4037	19,90		21,90	
2,0	0,13	F4037	20,90		22,90	
2,2	0,14	F4037	21,90		23,90	
2,7	0,18	A5151	25,90		27,90	
3,0	0,19	A5151	26,90		28,90	
3,3	0,20	A5151	27,90		29,90	
3,9	0,22	A5151	28,90		31,90	
4,7	0,25	A5151	29,90		33,90	
5,6	0,29	A5151	31,90		35,90	
6,8	0,33	A5151	33,90		37,90	

NEW
NEW

NEW DrumCore Coils, wire Ø 1,80 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	H180		BH180	
			[€]	[€]	[€]	[€]
0,39	0,04	A5151	19,90		21,90	
0,47	0,05	A5151	20,90		22,90	
0,56	0,05	A5151	21,90		23,90	
0,68	0,06	A5151	22,90		24,90	
0,82	0,06	A5151	23,90		25,90	
1,0	0,07	A5151	24,90		26,90	
1,2	0,08	A5151	25,90		27,90	
1,5	0,09	A5151	26,90		29,90	
1,8	0,10	A5151	27,90		30,90	
2,0	0,11	A5151	28,90		32,90	
2,2	0,12	A5151	29,90		34,90	

MCoil iCore Coils combine both the typical low basic output distortions and the low internal resistance of Feron core coils with the enhanced dynamic in music performance of copper wire featuring our Baked Wire Treatment.

They are highly suitable to be used for high quality mid frequency crossover within subwoofer applications. They also offer an excellent value for money ratio as well as the come at compact dimensions.

Please find detailed information on the advantages of different coil technologies on pages 30 to 32.

Key words: **Feron Core • OFC-Copper • Solid Core**



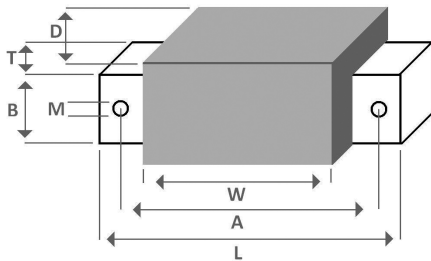
Technical specifications:

OFC-Copper 99.99% pure

Coil form: PA, fibre-glass reinforced

Core material: FERON

Grain-oriented silicon iron 0.35 mm



Body	L	T=B	A	W	M
Dimensions (mm)					
S66	66	11	55	41	4
S84	84	14	72	58	4
S96	96	16	82	67	5
S106	106	14,5	94	79	5
S130	130	18	115	99	6
S150	150	20	134	118	6

iCore Coils, baked varnish wire Ø 1,00 mm

BS100

Inductance [mH] ±3%	RDC [Ohm]	Body	Body Ø [mm]	[€]
4,7	0,41	S84	27	34,50
5,6	0,46	S84	27	34,90
6,8	0,52	S84	29	35,90
8,2	0,58	S84	29	36,90
10	0,63	S84	31	37,90
12	0,71	S84	33	38,90
15	0,82	S84	33	41,90

iCore Coils, baked varnish wire Ø 1,25 mm

BS125

Inductance [mH] ±3%	RDC [Ohm]	Body	Body Ø [mm]	[€]
2,7	0,21	S84	21	36,90
3,0	0,22	S84	30	37,90
3,3	0,23	S84	30	38,90
3,9	0,25	S84	32	39,90
4,7	0,30	S96	32	43,90
5,6	0,31	S96	32	44,90
6,8	0,35	S96	32	45,90
8,2	0,39	S96	32	46,90
10	0,42	S106	34	47,90
12	0,46	S106	36	49,90
15	0,57	S106	36	54,90
18	0,59	S130	36	59,90
22	0,67	S130	38	64,90

iCore Coils, baked varnish wire Ø 1,40 mm

BS140

Inductance [mH] ±3%	RDC [Ohm]	Body	Body Ø [mm]	[€]
1,0	0,09	S84	27	32,90
1,2	0,10	S84	27	33,90
1,5	0,12	S84	27	34,90
1,8	0,13	S84	28	35,90
2,0	0,14	S84	28	36,90
2,2	0,15	S84	28	37,90
2,7	0,17	S96	29	39,90
3,0	0,18	S96	29	40,90
3,3	0,19	S96	29	41,90
3,9	0,19	S106	31	42,90
4,7	0,23	S106	32	43,90
5,6	0,25	S106	32	45,90
6,8	0,28	S106	34	47,90
8,2	0,32	S106	34	49,90
10	0,35	S130	35	52,90
12	0,39	S130	35	55,90
15	0,45	S130	37	59,90
18	0,46	S130	37	64,90
22	0,52	S130	39	69,90
27	0,67	S130	41	74,90
33	0,70	S150	43	79,90

NEW iCore Coils, baked varnish wire Ø 1,80 mm

BS180

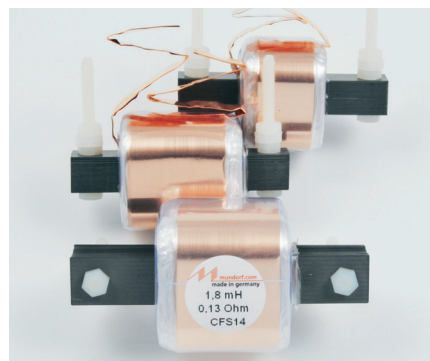
Inductance [mH] ±3%	RDC [Ohm]	Body	Body Ø [mm]	[€]
1,0	0,06	S106	33	37,90
1,2	0,07	S106	33	38,90
1,5	0,08	S106	33	39,90
1,8	0,09	S106	34	40,90
2,0	0,1	S106	34	41,90
2,2	0,10	S106	34	42,90
2,7	0,11	S106	35	44,90
3,0	0,12	S106	35	46,90
3,3	0,13	S106	36	48,90
3,9	0,14	S130	36	51,90
4,7	0,15	S130	37	53,90
5,6	0,17	S130	37	55,90
6,8	0,19	S130	39	57,90
8,2	0,21	S130	39	59,90
10	0,23	S150	41	64,90
12	0,26	S150	43	69,90
15	0,30	S150	45	74,90
18	0,34	S150	47	79,90
22	0,39	S150	49	89,90
27	0,45	S150	51	99,90
33	0,51	S150	53	109,90
39	0,57	S150	55	119,90
47	0,65	S150	58	129,90

MCoil iCore Coils made from copper foil combine both the low level output distortions and the low internal resistance of Feron core coils with the high resolution and the great dynamic properties of OFC copper foil. They are highly suitable to be used in high quality mid frequency crossovers within subwoofer applications. Furthermore, they are distinguished by an excellent value for money ratio as well as by their compact dimensions.

With the **CFS** series we are once again complying to the very innovation and quality standards we set on day 1 for making us a leading manufacturer of state-of-the-art components for music lovers, since +30 years.

Please find detailed information on the advantages of different coil technologies on pages 30 to 32.

Key words: **Feron Core • OFC-Copper • Foil coils**



Technical specifications:

Cu-foil: 70 μ / OFC-Copper 99.99% pure
Insulation: Polypropylen 20 μ
Core material: FERON
Grain-oriented silicon iron 0.35 mm
Permissible ambient temperature 105°C/221°F

iCore Coils, foil 28 mm

Cross-section = 1.96 mm², Δ round wire \varnothing 1,58mm

Inductance [mH] $\pm 3\%$	RDC [Ohm]	Body	\varnothing Body [mm]	CFS14 [€]
0,47	0,05	S84	31	35,90
0,56	0,06	S84	32	36,90
0,68	0,07	S84	34	37,90
0,82	0,08	S84	35	38,90
1,0	0,09	S84	37	39,90
1,2	0,10	S84	38	41,90
1,5	0,11	S84	40	43,90
1,8	0,13	S84	43	45,90
2,0	0,14	S96	44	47,90
2,2	0,14	S96	45	49,90
2,7	0,16	S106	46	51,90
3,0	0,17	S106	47	53,90
3,3	0,17	S106	48	55,90
3,9	0,21	S106	51	57,90
4,7	0,24	S106	54	59,90
5,6	0,28	S106	58	64,90
6,8	0,30	S106	62	69,90
8,2	0,34	S106	67	74,90
10	0,40	S106	73	79,90

iCore Coils, foil 44 mm

Cross-section 3.08 mm² Δ round wire \varnothing 1.96

Inductance [mH] $\pm 3\%$	RDC [Ohm]	Body	\varnothing Body [mm]	CFS12 [€]
1,0	0,06	S130	37	49,90
1,2	0,06	S130	39	51,90
1,5	0,07	S130	41	53,90
1,8	0,07	S130	43	55,90
2,0	0,08	S130	44	57,90
2,2	0,09	S130	45	59,90
2,7	0,10	S130	47	62,90
3,0	0,11	S130	49	65,90
3,3	0,12	S130	50	68,90
3,9	0,12	S130	53	73,90
4,7	0,14	S130	56	79,90
5,6	0,16	S130	59	85,90
6,8	0,19	S130	63	92,90
8,2	0,22	S130	67	99,90
10	0,26	S130	74	114,90
12	0,32	S130	78	129,90
15	0,37	S130	82	149,90
18	0,43	S130	87	169,90
22	0,49	S130	94	189,90

iCore Coils, foil 70 mm

Cross-section 4.90 mm² Δ round wire \varnothing 2.50 mm

Inductance [mH] $\pm 3\%$	RDC [Ohm]	Body	\varnothing Body [mm]	CFS10 [€]
1,0	0,04	S150	41	59,90
1,2	0,04	S150	42	64,90
1,5	0,05	S150	44	69,90
1,8	0,05	S150	46	74,90
2,0	0,06	S150	47	79,90
2,2	0,06	S150	48	89,90
2,7	0,07	S150	50	99,90
3,0	0,08	S150	52	109,90
3,3	0,09	S150	54	119,90
3,9	0,10	S150	56	129,90
4,7	0,11	S150	59	139,90
5,6	0,12	S150	63	149,90
6,8	0,13	S150	67	159,90
8,2	0,15	S150	71	179,90
10	0,18	S150	77	199,90
12	0,20	S150	82	219,90
15	0,24	S150	89	259,90
18	0,27	S150	95	299,90
22	0,33	S150	103	339,90
27	0,41	S150	114	389,90
33	0,50	S150	128	439,90

FERON Core coils MCoil Zero-Ohm



Our **Zero-Ohm Coil (ZOC)** not only is a remarkable milestone in our +30 years lasting company history but certainly a true milestone within the field of audiophile coil technology in general, too. As back then, today, the ZOC is still to set the standards for the utmost musical fidelity in all respects considering a convincingly performed low frequency spectrum in subtle coloration.

They were specially developed for low frequency applications for which maximum performance fidelity, tonal neutrality and the smallest possible internal resistance are of primary importance. That way, these coils also enable the high efficiency of today's High End loudspeakers to be optimally enhanced, even with low-output single-ended tube applications.

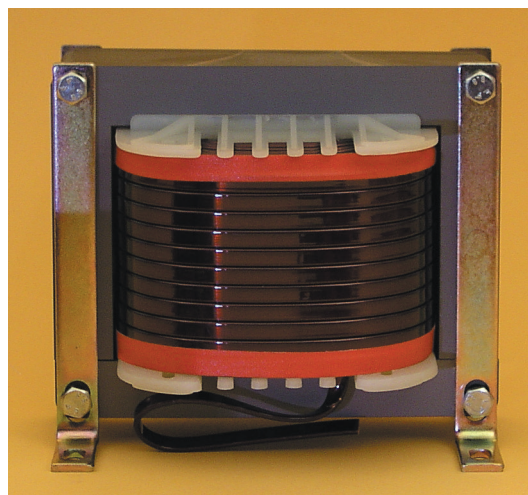
Moreover, we are pleased to present a completely revised and expanded model series, which now meets numerous customer requests for smaller dimensions, too.

The excellent qualities of the **N** series with its transparency and musical authenticity can yet be further enhanced by applying Baked Wire Treatment. Same applies for vacuum impregnated ZOCs made from copper round wires with larger conductor cross sections.

Baked Wire Treatment featuring coils are listed as **BN** in the following table, vacuum impregnated coils are marked **VN**.

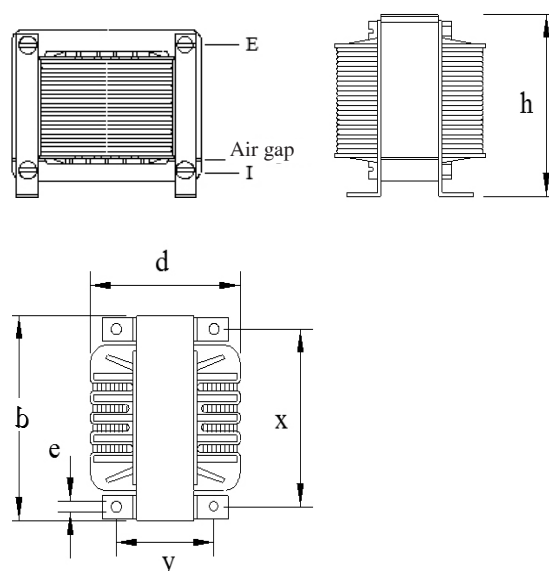
Please find detailed information on the advantages of different coil technologies on pages 30 to 32. Key words:

Feron Core ZOC • OFC-Copper • Solid Core



Technical specifications:

Core material: FERON
Grain-oriented silicon iron 0.35 mm
OFC-Copper 99.99% pure



Body	b	h	d	x	y	e
Dimensions (mm)						
N66	66	61	63	54	48	4,8
N84	84	76	70	72	57	4,8
N96	96	86	84	80	69	5,8
N106	106	93	87	95	67	5,8
N130	130	115	97	78	114	5,8
N150	150	131	121	135	86	7

FERON Core coils MCoil Zero-Ohm

Inner Excellence

Zero-Ohm Coils, baked varnish wire Ø 1,25 mm BN125

Inductance [mH] ±5%	RDC [Ohm]	Body	€
15	0,36	N84	99,90
18	0,44	N84	104,90
22	0,47	N84	109,90
27	0,53	N96	139,90
33	0,60	N96	149,90

Zero-Ohm Coils, baked varnish wire Ø 1,40 mm **NEW** Zero-Ohm Coils, baked varnish wire Ø 1,80 mm BN140 BN180

Inductance [mH] ±5%	RDC [Ohm]	Body	€
1,0	0,07	N66	62,90
1,2	0,08	N66	63,90
1,5	0,08	N66	64,90
1,8	0,10	N66	65,90
2,0	0,11	N66	66,90
2,2	0,12	N66	67,90
2,7	0,12	N66	68,90
3,0	0,14	N66	69,90
3,3	0,14	N84	95,90
3,9	0,16	N84	96,90
4,7	0,17	N84	97,90
5,6	0,19	N84	98,90
6,8	0,21	N84	99,90
8,2	0,23	N84	101,90
10	0,26	N84	103,90
12	0,29	N84	105,90

Inductance [mH] ±5%	RDC [Ohm]	Body	€
2,2	0,07	N84	95,90
2,7	0,08	N84	96,90
3,0	0,09	N84	97,90
3,3	0,09	N84	98,90
3,9	0,10	N84	99,90
4,7	0,11	N96	129,90
5,6	0,12	N96	131,90
6,8	0,13	N96	133,90
8,2	0,15	N96	135,90
10	0,16	N96	137,90
12	0,17	N96	139,90
15	0,22	N106	159,90
18	0,25	N106	164,90
22	0,29	N106	169,90
27	0,32	N106	174,90
33	0,34	N106	179,90

NEW Zero-Ohm Coils, wire Ø 2,36 mm

Inductance [mH] ±5%	RDC [Ohm]	Body	N236	VN236
			€	€
2,7	0,05	N96	131,90	136,90
3,0	0,06	N96	133,90	137,90
3,3	0,06	N96	135,90	138,90
3,9	0,06	N96	137,90	139,90
4,7	0,06	N96	139,90	141,90
5,6	0,08	N106	159,90	164,90
6,8	0,09	N106	164,90	166,90
8,2	0,10	N106	169,90	169,90
10	0,12	N106	174,90	172,90
12	0,13	N106	179,90	175,90
15	0,15	N130	239,90	229,90
18	0,17	N130	244,90	239,90
22	0,19	N130	249,90	249,90
27	0,21	N130	254,90	259,90
33	0,24	N130	259,90	269,90

Zero-Ohm Coils, wire Ø 3,00 mm

Inductance [mH] ±5%	RDC [Ohm]	Body	N300	VN300
			€	€
1,0	0,02	N96	144,90	154,90
1,2	0,02	N96	145,90	155,90
1,5	0,02	N96	146,90	156,90
1,8	0,03	N96	147,90	157,90
2,0	0,03	N96	148,90	158,90
2,2	0,03	N96	149,90	159,90
2,7	0,03	N106	169,90	179,90
3,0	0,04	N106	171,90	181,90
3,3	0,04	N106	173,90	183,90
3,9	0,04	N106	176,90	186,90
4,7	0,05	N106	179,90	189,90
5,6	0,05	N130	229,90	239,90
6,8	0,06	N130	239,90	249,90
8,2	0,07	N130	249,90	259,90
10	0,08	N130	259,90	269,90
12	0,09	N130	269,90	279,90
15	0,1	N130	279,90	289,90
18	0,11	N130	289,90	299,90
22	0,11	N150	379,90	389,90
27	0,13	N150	389,90	404,90
33	0,14	N150	399,90	419,90

Zero-Ohm Coils, wire 6 * 2 mm

Inductance [mH] ±5%	RDC [Ohm]	Body	N390	VN390
			€	€
1,0	0,02	N106	203,90	213,90
1,2	0,02	N106	204,90	214,90
1,5	0,02	N106	205,90	215,90
1,8	0,02	N106	206,90	216,90
2,0	0,02	N106	207,90	217,90
2,2	0,02	N106	208,90	218,90
2,7	0,02	N106	209,90	219,90
3,0	0,02	N130	259,90	269,90
3,3	0,03	N130	269,90	279,90
3,9	0,03	N130	279,90	289,90
4,7	0,03	N130	289,90	299,90
5,6	0,04	N130	299,90	309,90
6,8	0,04	N150	359,90	369,90
8,2	0,04	N150	369,90	379,90
10	0,05	N150	379,90	389,90
12	0,05	N150	389,90	399,90
15	0,05	N150	399,90	409,90
18	0,05	N150	409,90	419,90
22	0,05	N150	419,90	429,90

FERON Core coils MCoil Zero-Ohm



Our **Zero-Ohm Coil (ZOC)** made from copper foil impressively combines the outstanding natural music performance of extremely low ohm Feron ZOC cores with the finely detailed musical texture and multifaceted richness of OFC copper foil.

These coils were specially developed for low frequency applications which do not focus on maximum capacity, but rather exceptional performance quality, micro-dynamics and outstanding technical properties such as matching perfectly with highly-efficient loudspeakers specially designed for low-power, single-ended tube-amplifiers.

Please find detailed information on the advantages of the different coils technologies on pages 30 to 32.

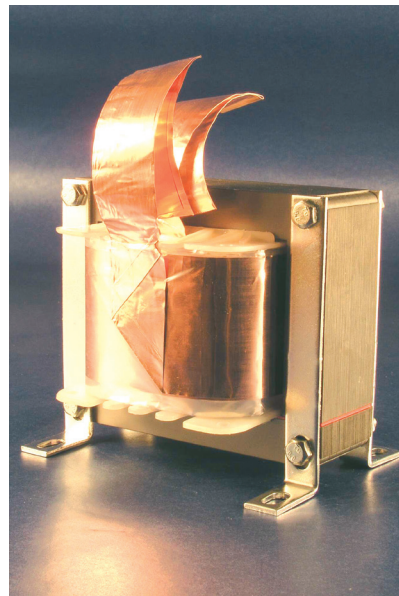
Key words: **Feron Core ZOC • OFC-Copper • Foil coils**

Technical specifications:

Core material: FERON

Grain-oriented silicon iron 0.35 mm

OFC-Copper 99.99% pure



Zero-Ohm Coils, foil 28 mm

Cross-section = 1.96 mm², \triangle round wire \varnothing 1.58 mm

CFN14

Inductance [mH] $\pm 5\%$	RDC [Ohm]	Body	[€]
2,7	0,10	N84	99,90
3,0	0,11	N84	101,90
3,3	0,12	N84	103,90
3,9	0,13	N84	105,90
4,7	0,15	N84	107,90
5,6	0,17	N84	109,90
6,8	0,19	N84	111,90

Zero-Ohm Coils, foil 44 mm

Cross-section = 3.08 mm², \triangle round wire \varnothing 1.98 mm

CFN12

Inductance [mH] $\pm 5\%$	RDC [Ohm]	Body	[€]
8,2	0,14	N106	184,90
10	0,15	N106	189,90
12	0,17	N106	194,90
15	0,19	N106	199,90
18	0,22	N106	205,90
22	0,25	N106	212,90

MCoil TransformerCore Coils combine both lowest distortion rate and precise pulse signal with low internal resistance, even under highest output levels. Therefore they have been the benchmark for extremely precise and powerful but deep bass performance for more than 25 years!

We are very pleased to present a completely revised and expanded model series, now meeting frequent customer requests for smaller dimensions, too.

The outstanding features of this series can be considerably enhanced yet by the appliance of Baked Wiring Treatment or Vacuum Impregnation.

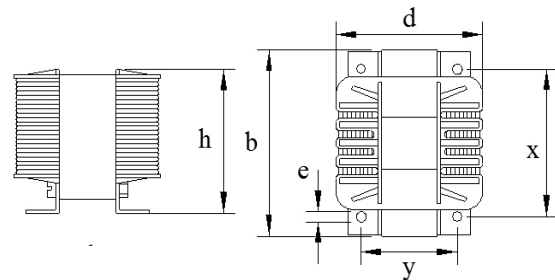
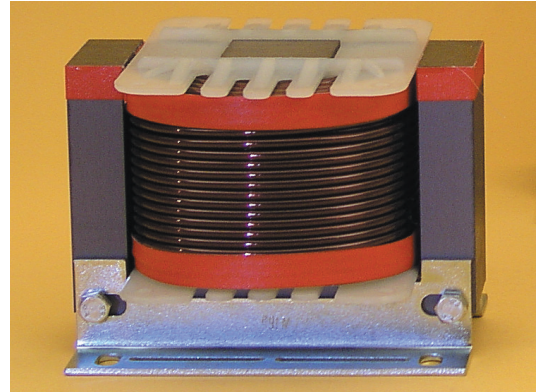
Baked Wiring Treatment is marked **BT** in the following table. Vacuum impregnated coils are marked **VT**.

Please find detailed information on the advantages of different coil technologies on pages 30 to 32. Key words are:

Feron Core • OFC-Copper • Solid Core

Technical specifications:

Core material: FERON
Grain-oriented silicon iron 0.35 mm
OFC-Copper 99.99% pure



Body	b	h	d	x	y	e
Dimensions (mm)						
T84	84	60	59,5	65	48	4,8
T96	96	69	76,1	85	62	5,8
T106	106	81	88	84	56	5,8
T130	130	100	106	104	73	5,8
T150	150	115	121	130	87	7

TransformerCore Coils, baked varnish wire Ø 1,25 mm
BT125

Inductance [mH] ±3%	RDC [Ohm]	Body	[€]
3,9	0,28	T84	79,90
4,7	0,31	T84	80,90
5,6	0,34	T84	81,90
6,8	0,37	T84	82,90
8,2	0,43	T84	83,90

NEW TransformerCore Coils, baked varnish wire Ø 1,80 mm
BT180

Inductance [mH] ±3%	RDC [Ohm]	Body	[€]
1,0	0,08	T84	74,90
1,2	0,08	T84	75,90
1,5	0,09	T84	76,90
1,8	0,10	T84	77,90
2,0	0,11	T84	79,90
2,2	0,11	T96	92,90
2,7	0,12	T96	94,90
3,0	0,13	T96	96,90
3,3	0,14	T96	99,90
3,9	0,15	T96	102,90
4,7	0,17	T96	105,90
5,6	0,19	T106	119,90
6,8	0,21	T106	124,90
8,2	0,25	T106	129,90
10	0,27	T106	134,90
12	0,31	T106	139,90
15	0,36	T106	144,90
18	0,39	T130	184,90
22	0,45	T130	189,90
27	0,50	T130	199,90
33	0,57	T130	209,90
39	0,63	T130	224,90
47	0,71	T130	239,90

TransformerCore Coils, baked varnish wire Ø 1,40 mm
BT140

Inductance [mH] ±3%	RDC [Ohm]	Body	[€]
1,0	0,10	T66	57,90
1,2	0,11	T66	58,90
1,5	0,12	T66	59,90
1,8	0,11	T84	69,90
2,0	0,13	T84	71,90
2,2	0,15	T84	73,90
2,7	0,17	T84	75,90
3,0	0,19	T84	77,90
3,3	0,21	T84	79,90
3,9	0,23	T96	95,90
4,7	0,25	T96	97,90
5,6	0,28	T96	99,90
6,8	0,32	T96	101,90
8,2	0,35	T96	103,90
10	0,38	T96	106,90
12	0,45	T96	109,90

NEW TransformerCore Coils, wire Ø 2,36 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	T236	VT236
			[€]	[€]
1,0	0,05	T96	93,90	99,90
1,2	0,05	T96	95,90	101,90
1,5	0,06	T96	97,90	103,90
1,8	0,06	T96	99,90	105,90
2,0	0,07	T106	117,90	123,90
2,2	0,08	T106	119,90	126,90
2,7	0,09	T106	121,90	129,90
3,0	0,09	T106	123,90	132,90
3,3	0,10	T106	126,90	135,90
3,9	0,11	T106	129,90	138,90
4,7	0,12	T106	134,90	141,90
5,6	0,13	T106	139,90	144,90
6,8	0,14	T130	179,90	184,90
8,2	0,16	T130	184,90	189,90
10	0,18	T130	189,90	199,90
12	0,21	T130	199,90	209,90
15	0,24	T130	209,90	219,90
18	0,26	T130	219,90	229,90
22	0,28	T150	284,90	299,90
27	0,32	T150	299,90	314,90
33	0,36	T150	314,90	329,90

TransformerCore Coils, wire Ø 3,00 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	T300	VT300
			[€]	[€]
1,0	0,03	T106	125,90	129,90
1,2	0,03	T106	128,90	132,90
1,5	0,04	T106	131,90	135,90
1,8	0,04	T106	134,90	139,90
2,0	0,05	T130	179,90	189,90
2,2	0,05	T130	184,90	194,90
2,7	0,06	T130	189,90	199,90
3,0	0,06	T130	194,90	204,90
3,3	0,07	T130	199,90	209,90
3,9	0,07	T130	205,90	219,90
4,7	0,08	T130	212,90	229,90
5,6	0,09	T130	219,90	239,90
6,8	0,10	T150	289,90	299,90
8,2	0,10	T150	299,90	309,90
10	0,12	T150	309,90	319,90
12	0,13	T150	329,90	339,90
15	0,15	T150	359,90	369,90

TransformerCore Coils, wire 6 * 2 mm

Inductance [mH] ±3%	RDC [Ohm]	Body	T390	VT390
			[€]	[€]
1,0	0,03	T130	219,90	229,00
1,2	0,03	T130	229,90	239,00
1,5	0,03	T130	239,90	249,00
1,8	0,04	T130	249,90	259,00
2,0	0,04	T130	259,90	269,00
2,2	0,04	T150	299,90	309,90
2,7	0,04	T150	319,90	329,90
3,0	0,05	T150	339,90	354,90
3,3	0,05	T150	359,90	379,90
3,9	0,06	T150	389,90	409,90

FERON Core coils MCoil TransformerCore

Inner Excellence

MCoil TransformerCore Coils from copper foil combine both the natural dynamic fidelity and typical tonal transparency of OFC foil with the remarkable performance precision of Feron core coils, particularly, at the lowest frequency range.

They are specially developed for an extended ultra-low bass performance at the highest performance level with incredible precision and pulse signal fidelity. Altogether with its low internal resistance rate this coil type is most definitely first choice for high quality subwoofer applications.

Please find detailed information on the advantages of different coil technologies on pages 30 to 32. Key words are:

Feron Core • OFC-Copper • Foil coils

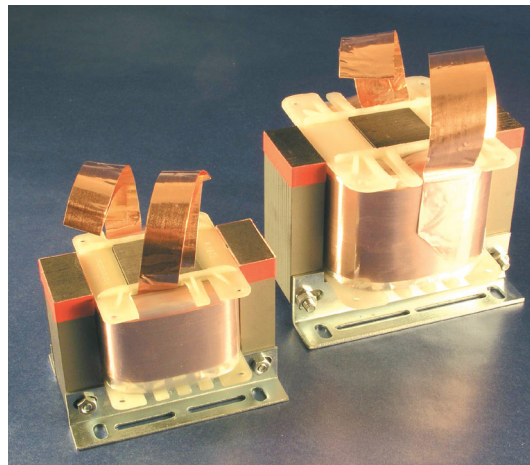
Technical specifications:

Core material: FERON

Corroded silicon iron 0.35mm

Cu foil: 70 μ / OFC copper with 99.997% pureness

Insulation: polypropylene 20 μ



TransformerCore Coils, foil 44 mm

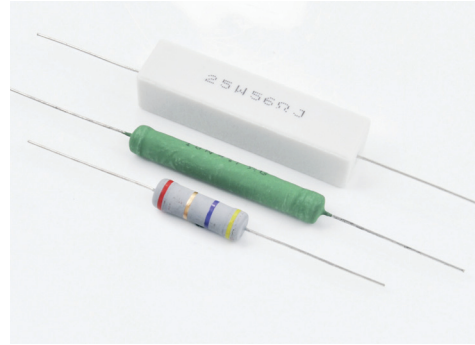
cross-section = 3,30 mm², Δ round wire \varnothing 2,05 mm

CFT12

Inductance [mH] \pm 3%	RDC [Ohm]	Body	[€]
2,7	0,13	T106	139,90
3,0	0,14	T106	144,90
3,3	0,15	T106	149,90
3,9	0,17	T106	154,90
4,7	0,18	T106	159,90
5,6	0,21	T106	164,90
6,8	0,23	T106	169,90

For high-load applications, wire-wound **cement resistors** with a continuous load capacity of 25 watt are a good option.

In comparison, **metal-oxide film resistors** do not have any residual inductivity. This is the reason why metal oxide film resistors should be favoured whenever impulse speed is required, e.g. in the medium/high frequency range. The versions we offer have a continuous load capacity of two and a half, five or ten watt. In the impulse range, however, they have a much higher continuous load capacity.



MR5
Metal-oxide film resistors, 5 watt

Ohm [Ω] ±2%	[€]
0,10	0,99
0,22	0,99
0,33	0,99
0,47	0,99
0,68	0,99
0,82	0,99
1,0	0,99
1,2	0,99
1,5	0,99
1,8	0,99
2,2	0,99
2,7	0,99
3,3	0,99
3,9	0,99
4,7	0,99
5,6	0,99
6,8	0,99
8,2	0,99
10	0,99
12	0,99
15	0,99
18	0,99
22	0,99
27	0,99
33	0,99
39	0,99
47	0,99
56	0,99

MR10
Metal-oxide film resistors, 10 watt

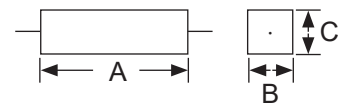
Ohm [Ω] ±2%	[€]
0,10	1,49
0,15	1,49
0,22	1,49
0,27	1,49
0,33	1,49
0,39	1,49
0,47	1,49
0,56	1,49
0,68	1,49
0,82	1,49
1,0	1,49
1,2	1,49
1,5	1,49
1,8	1,49
2,2	1,49
2,7	1,49
3,3	1,49
3,9	1,49
4,7	1,49
5,6	1,49
6,8	1,49
8,2	1,49
10	1,49
12	1,49
15	1,49
18	1,49
22	1,49
27	1,49
33	1,49
39	1,49
47	1,49
56	1,49

R25
High-load resistors, 25 watt

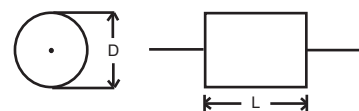
Ohm [Ω] ±5%	[€]
1,0	1,89
1,2	1,89
1,5	1,89
1,8	1,89
2,2	1,89
2,7	1,89
3,3	1,89
3,9	1,89
4,7	1,89
5,6	1,89
6,8	1,89
8,2	1,89
10	1,89
12	1,89
15	1,89
18	1,89
22	1,89
27	1,89
33	1,89
39	1,89
47	1,89
56	1,89

Colour codes for resistors

Color	1. ring 1. numeral	2. ring 2. numeral	3. ring multiplier	4. ring tolerance
without				20%
silver			0.01	10%
gold			0.1	5%
black		0	1	
brown	1	1	10	1%
red	2	2	100	2%
orange	3	3	1.000	
yellow	4	4	10.000	
green	5	5	100.000	0.50%
blue	6	6	1.000.000	0.25%
purple	7	7	10.000.000	0.10%
grey	8	8	100.000.000	0.05%
white	9	9	1.000.000.000	



Typ	A	B	C	Wire Dimensions [mm]	Bulk pack Ø * l [mm]	[pc]
R25	60	15	13	0.8 * 35		36



Type	L [mm]	D [mm]	Wire Ø * l [mm]	Bulk pack [pc]
MR5	24	8	0.8 * 35	12/567
MR10	52	8	0.8 * 35	12/288

Resistors MResist

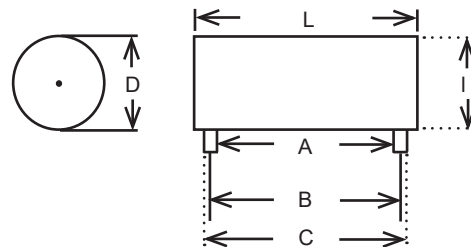
Inner Excellence

With our **MResist SUPREME** you can enjoy even finest details and spatial information which normally get lost. Due to the complex bifilar structure from 1Ω with two wires being wound around the high-temperature-resistant cement element simultaneously the inductance is always below $0,075\mu\text{H}$

In addition, the **MResist SUPREME** series features acoustic neutrality and music reproduction close to reality. This is due to a special manually applied fire-resistant casting compound which optimally fixes and stabilises the resistor winding thus protecting it against microphony effects.

In order to maintain high sound quality even at high load, we apply a special copper-nickel alloy as conducting material featuring a positive and extremely low temperature coefficient of only **50ppm/°C**.

Further details which guarantee that **MResist SUPREME** resistors are hardly noticeable anymore are the use of non-magnetic materials and welded contacts.



Type	D [mm]	L [mm]	Wire Ø * l [mm]	A [mm]	B [mm]	C [mm]
MRES20	11	51	1.0 * 30	32	39	45

MRES20

**Audiophile-resistors, non-magnetic,
non-inductive, 50ppm/°C, 20 watt**

Ohm [Ω] ±2%	[€]
1,0	12,90
1,2	12,90
1,5	12,90
1,8	12,90
2,2	12,90
2,7	12,90
3,3	12,90
3,9	12,90
4,7	12,90
5,6	12,90
6,8	12,90
8,2	12,90
10	12,90
12	12,90
15	12,90
18	12,90
22	12,90
27	12,90
33	12,90
39	12,90
47	12,90

We offer tin-solder from 2 alloys used as materials that show a considerably higher purity than is required by DIN standards:

MSolder SilverGold boosts the advantages of silver solder by adding purest Gold which also lowers the melting point and ensures the outstanding sound properties of our silver/gold components.

The **MSolder SUPREME SilverGold** is our second to none solder for tube applications as well as for assembling our SilverGold wires, foils and cables due to its surpassing conductivity combined with a high liquidus.



Technical specifications:

- 1.00 mm diameter
- Amine, diamine, urea and lead free
- Low odour
- Optimum processing temperature
- Special NO-CLEAN liquid
2.5% liquid content - Type 2.2.3 B - DIN EN 29 454.1
- Copper compatible
- Gentle on components
- Time saving
- User and environmental friendly

Purity of silver: min. 99.97% typ. 99.99%

Purity of gold: min. 99.97% typ. 99.99%

MSOL.SG

Tin solder MSolder SilverGold

Liquidus 217°C/422°F, Sn95,5Cu0,7Ag3,8Au, Ø 1,00 mm

Weight [g]	Lenght [m]	[€]
10	1,7	6,99
50	8,5	29,90
100	17,0	49,90
330	56	139,90

MSOL.SUP

Tin solder MSolder SUPREME SilverGold

Liquidus 290°C/554°F, Sn88,6Cu1,8Ag9,5Au0,1, Ø 1,0 mm

Weight [g]	Lenght [m]	[€]
10	1,7	11,90
50	8,5	54,90
100	17,0	89,90
330	56,0	249,90

TWARON® Unicorn's Tail is a speaker cabinet filler for acoustic damping purpose which is produced by Thüringisches Institut für Textil- und Kunststoff-Forschung (TITK), Germany, exclusively for MUNDORF company, Germany.

Unicorn's Tail is predominantly made from cleaned and karded TWARON® fibres as user-friendly "endless" strings. It was especially developed to absorb and damp the lower audio frequency range (<1 kHz) in subwoofers, transmission line tubes, insulation panels, etc. The material is easy to work with and does not age. The damping performance of TWARON® compares so favourably with that of all other known damping materials that it is today a "must" for many well-known developers and manufacturers of high-end speakers.

The extremely thin TWARON® fibres are karded into an extremely soft and dense so-called Horsetail Hair we named Unicorn Hair. In contrast to fibreglass and other plastic fibres, TWARON® conducts heat generated vibrations away very well and absorbs this type of acoustic motion energy in an entirely different manner than all conventional materials which are commonly used for damping purpose. Owing to the endless fibre tapes used in Unicorn Hair, the effective functional frequency-range is lower in comparison with the Angel Hair described below. It constitutes a significantly better alternative to the damping materials which are otherwise used in transmission line systems. In short, Unicorn Hair results in a very direct and dry bass reproduction in (sub-) bass cabinets, and in transmission-line tubes. The low-frequency vibrations are attenuated so efficiently that an extremely deep and clean bass reproduction "like by itself" is achieved.

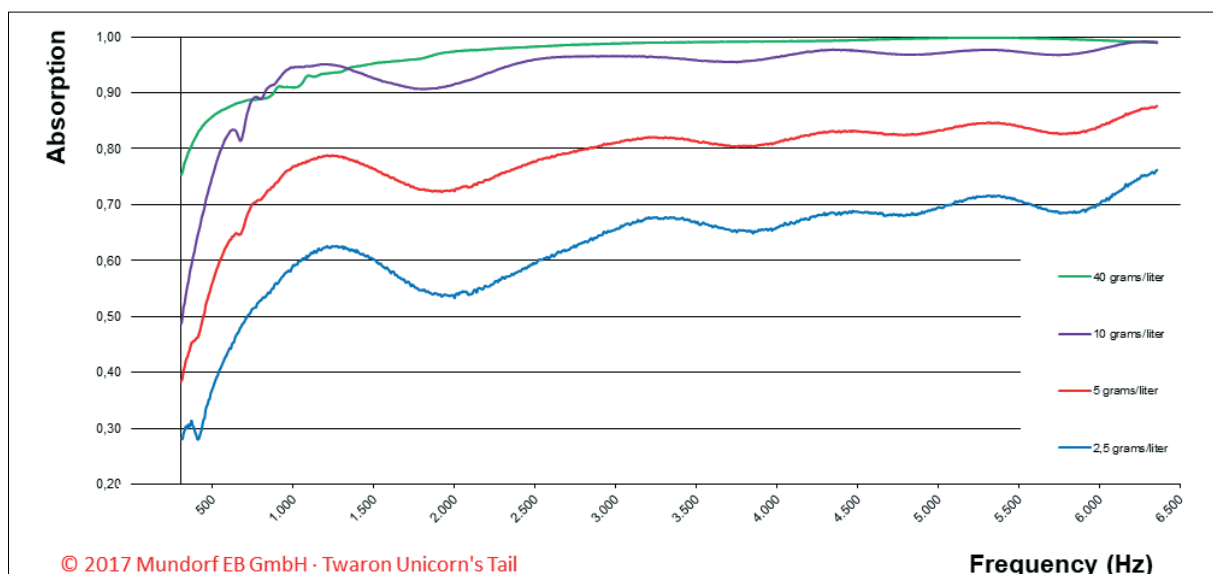


Unicorn's Tail

UNICORN
MSilence TWARON® Unicorn's Tail

Order number	Packing unit	weight [kg]	[€]
UNICORN-200G	1	0,2	59,90
UNICORN-200G	5	1	189,90
UNICORN-200G	60	12	on request
UNICORN-200G	720	144	on request

The frequency/damping performance diagram show how the low and medium audio frequency range can be adjusted very easily with the correct quantity of Unicorn's Tail filling.





Angel Hair

TWARON® Angel Hair is a speaker cabinet filler for acoustic damping purpose which is produced by Thüringische Institut für Textil- und Kunststoff-Forschung (TITK), Germany, exclusively for MUNDORF company, Germany

For to make Mundorf Angel Hair, the TWARON® base fibres are processed several times: The TWARON® fibres with their immense number of hairs are first cut into 60 mm long sections, herafter karded, mixed and finally carefully pressed into a mass. In contrast to fibreglass and other plastic fibres, TWARON® conducts heat generated vibrations away very well and absorbs this type of acoustic motion energy in a fundamentally different manner than other known materials which are commonly used for this purpose.

The choice of the right fibre lengths and the right process for combing them into a workable mass leads to remarkable acoustic results which were first discovered by audio professionals. The improvement in the sound quality (fine dynamics in the midrange, “more airy” reproduction of voices and instruments, better 3D properties, etc.) is absolutely comparable with replacing cheaper standard connections with high-end cables. With the difference that Angel Hair is much less expensive.

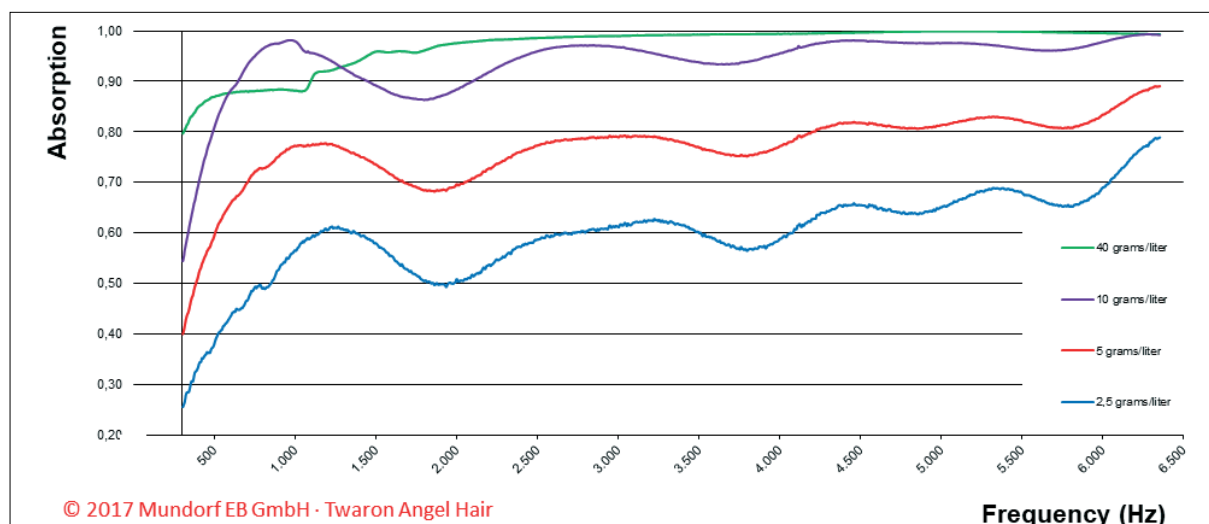
Comparisons with the kg price for conventional fibres can make Angel Hair look expensive at first glance, but you only need approx. 10-20% of the weight of other materials. More importantly: the sound quality improves significantly; this can particularly be heard in the signal definition in the midrange and in bass reproduction. In comparison with the costs for high quality cables or equipment such as absorbers etc., Angel Hair is an extremely cost-effective way of improving the sound quality.

In contrast to other insulating materials, the insulating properties of Angel Hair are almost linear from 700 Hz. As shown in the diagrams, 3-10 grams/litre of volume in speaker systems is an appropriate quantity, depending on the damped frequency range and the size and design of the speaker cabinet. It is certainly never necessary to fill large speakers and bass reflex boxes completely! At best, this would have a negative effect on the acoustics of your speaker system. For such cases, we recommend just filling the space behind the woofer. And another tip: by exchanging the standard BAF filler for Angel Hair, you generally achieve a further increase in the precision of the bass reproduction for existing speakers.

The diagrams below show how absorption-specific room reflections in the midrange/ upper range can be achieved through filling of absorption boards or insulation backdrops with Angel Hair.

MSilence TWARON® Angel hair

Order number	Packing unit	weight [kg]	[€]
ANGEL-200G	1	0,2	59,90
ANGEL-200G	5	1	189,90
ANGEL-200G	60	12	on request
ANGEL-200G	720	144	on request



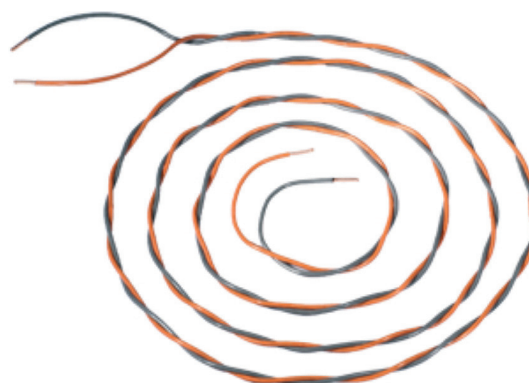
The reproduction of music by PTFE-insulated SolidCore Copper wires **CUW** excels by natural vibrancy and fineness as well as highest tonal neutrality, and an excellent price/performance ratio.

Initial listening test with regular stranded wires quickly showed that our coil wires, used as internal cabling for loudspeakers impress by their detailed and acoustically balanced music performance.

An additional PTFE sheath prevents the oxygen-free copper conductor (99.997% purity) from abrasion and tonal influences by unwanted microphonics.

The following, individually isolated and twisted versions are particularly appropriate:

- 2 * 1.0mm for tweeters
- 2 * 1,5mm for mid-drivers and mid-woofers
- 6 * 1,5mm for complete audio signals
- 2 * 2,0mm for woofers and sub-woofers



* Insulation test voltage 2 500V DC,
Max. operating voltage 250V AC
Strength of PTFE insulation: min. 0.25 mm

CUW210GY/OG

Copper wire 2 * 0,8 mm², PTFE-insulated, grey/orange *

price á meter	19,90
---------------	-------

CUW215GY/OG

Copper wire 2 * 1,8 mm², PTFE-insulated, grey/orange *

price á meter	24,90
---------------	-------

CUW615GY/OG

Copper wire 6 * 1,8 mm², PTFE-insulated, grey/orange *

price á meter	79,80
---------------	-------

CUW220GY/OG

Copper wire 2 * 3,1 mm², PTFE-insulated, grey/orange *

price á meter	29,90
---------------	-------

The mixture of **silver plus 1% gold** has proven itself excellently as capacitor film for the MCap® SUPREME SilverGold series. The resulting sound is so impressive that it was only natural to think of using this alloy for the internal wiring of electronic devices.

Listening tests with individually isolated conductors quickly proved that SilverGold shows its superior strengths every bit as convincingly in this application as well. Purity and elegance are the terms that automatically lend themselves to this exquisite material.

We offer the SilverGold wire in various diameters and insulated in PTFE. The following, individually isolated and twisted versions are particularly appropriate:

- 2 * 0,5mm for tweeters
- 6 * 0,5mm for tweeters
- 6 * 0,5mm (shielded) for LF-Signals
- 2 * 1,0mm for mid-drivers
- 2 * 1,5mm for mid-woofers and woofers
- 4 * 1,5mm for woofers and sub-woofers
- 4 * 1,5mm for complete audio signals
- 6 * 1,5mm for complete audio signals
- 8 * 1,5mm for complete audio signals

SGW105
SilverGold-wire 0,5 mm, non-insulated
price/meter [€]

SGW105WH
SilverGold-wire 0,5 mm, PTFE-insulated, white *
price/meter [€] on request

SGW105YE
SilverGold-wire 0,5 mm, PTFE-insulated, yellow *
price/meter [€]

SGW205WH/YE
SilverGold-wire 2 * 0,5 mm, PTFE-insulated, white/yellow *
price/meter [€]

NEW SGW605WH/YE
SilverGold-wire 6 * 0,5 mm, PTFE-insulated, white/yellow *
price/meter [€]

SGW605SHLD
SilverGold-wire 6 * 0,5 mm, PTFE-insulated, shielded *
price/meter [€]



Purity of silver: min. 99.97% typ. 99.99%
Purity of gold: min. 99.97% typ. 99.99%

* Insulation test voltage 2 500V DC,
Max. operating voltage 250V AC
Strength of PTFE insulation: min. 0.25 mm

SGW110
SilverGold-wire 1,0 mm, non-insulated
price/meter [€]

SGW110WH
SilverGold-wire 1,0 mm, PTFE-insulated, white *
price/meter [€] on request

SGW110YE
SilverGold-wire 1,0 mm, PTFE-insulated, yellow *
price/meter [€]

SGW210WH/YE
SilverGold-wire 2 * 1,0 mm, PTFE-insulated, white/yellow *
price/meter [€]

SGW115
SilverGold-wire 1,5 mm, non-insulated
price/meter [€]

SGW115WH
SilverGold-wire 1,5 mm, PTFE-insulated, white *
price/meter [€]

SGW115YE
SilverGold-wire 1,5 mm, PTFE-insulated, yellow *
price/meter [€]

SGW215WH/YE
SilverGold-wire 2 * 1,5 mm, PTFE-insulated, white/yellow *
price/meter [€]

SGW415WH/YE
SilverGold-wire 4 * 1,5 mm, PTFE-insulated, white/yellow *
price/meter [€]

SGW615WH/YE
SilverGold-wire 6 * 1,5 mm, PTFE-insulated, white/yellow *
price/meter [€]

SGW815WH/YE
SilverGold-wire 8 * 1,5 mm, PTFE-insulated, white/yellow *
price/meter [€]

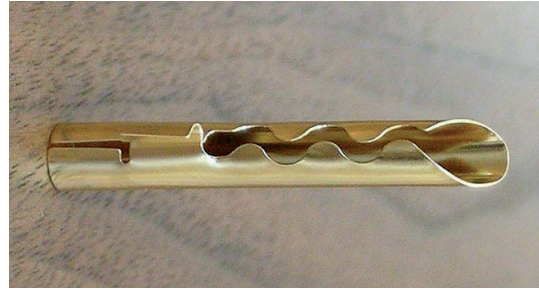


Our **cable lugs** are made from the purest OFC-copper. The acoustic advantages are described in the chapter on pole terminals. Even large cable cross-sections can be processed. Because soft copper is unsuitable for the use of threads, we have decided to use a crimp connection between the lug and the cable.

MCONCL

Cable lugs, Beryllium-copper, gold-plated, to crimp

properly for	2 pair [€]	Bulk pack [€]
Fork, M6, 4,0-6,0mm ² cable	14,90	
Ring, M6, 0,5-1,0mm ² cable	11,90	500
Ring, M6, 1,5-2,5mm ² cable	11,90	500
Ring, M6, 4,0-6,0mm ² cable	11,90	500
Ring, M8, 1,5-2,5mm ² cable	11,90	500
Ring, M8, 4,0-6,0mm ² cable	11,90	500



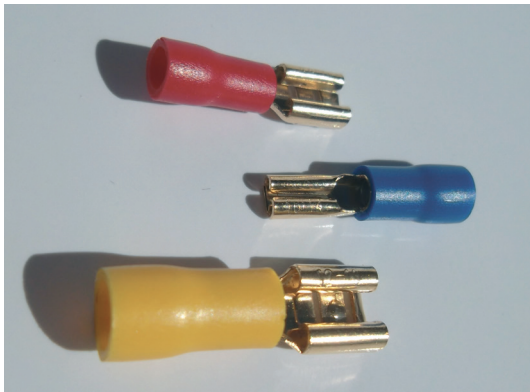
Our **banana plugs** are manufactured using a special beryllium copper sheet and subsequently gold plated. The beryllium gives the copper the necessary spring tension that is needed in order to ensure a high contact pressure when in contact with a socket and therefore guaranteeing security. The acoustic advantages of copper remain largely unaffected.

MCONBP

Banana plugs, Beryllium-copper, gold-plated

Insulation	2 pair [€]	Bulk pack [€]
non insulated	11,90	100

Insulation	1 pc. [€]	Bulk pack [€]
BK, black	1,49	100
RD, red	1,49	100



BLADE8.RDD

Blade receptacles, 0,5-1,5mm² cable, red

	10 pcs [€]
2,8G gold-plated	3,99
4,8G gold-plated	3,99

BLADE8.RBL

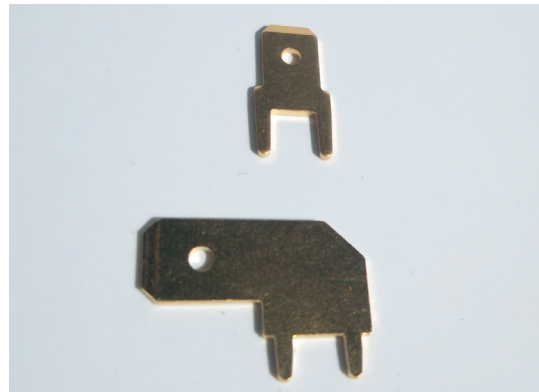
Blade receptacles, 1,5-2,5mm² cable, blue

	10 pcs [€]
2,8G gold-plated	3,99
4,8G gold-plated	3,99
6,3G gold-plated	3,99

BLADE8.RYE

Blade receptacles, 4,0-6,0mm² cable, yellow

	10 pcs [€]
6,3G gold-plated	6,99



BLADE.TS

Contact pin, straight

	10 pcs [€]
2,8G gold-plated	7,99
4,8G gold-plated	8,99
6,3G gold-plated	9,99

BLADE.TA

Contact pin, angle form

	10 pcs [€]
6,3G gold-plated	9,99

The **TPCU Terminal Posts** from **OFC-copper** are designed to meet the highest demands on mechanical precision, acoustical performance and aesthetics. Made in Germany from the solid our TPCU series combines maximum conductor cross-section with lowest transfer resistances. Thus they unite tonal clarity, beauty and stereo-phonics spaciousness with harmonious-warmth and splendid brightness.

Pure copper terminals should be cleaned periodically with copper-polish or a mixture of vinegar and water to prevent oxidation. Alternatively we offer 'maintenance-free' versions plated with **silver** or **gold**.

The scope of delivery includes two nuts, one washer and a spring washer for safe assembly. Standard insulation material furthermore acts as rotation protection and polarity marking.

We offer red and black coloured markings ex stock and spot colours upon request.

Mundorf recommends non-metallic mounting plates. Else the terminal posts induce a charge via counter-rotating magnetic fields into the mounting plate that distorts the music signal by absorbing energy from it. So more electric power is transmitted, the higher is the inductance and hence the loss of energy and fine details (see diagram).

TPCU670 Connections

External:
6mm cable lugs (spades),
1x 4mm banana plug
Internal:
6mm cable lugs (spades), Solder Terminal

TPCU750 Connections

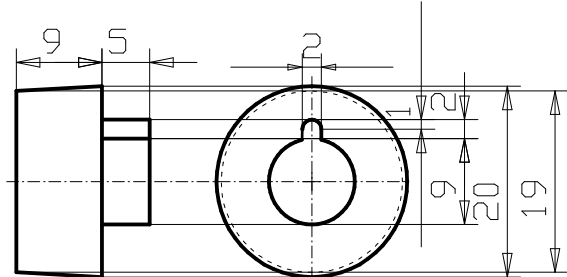
External:
6mm cable lugs, 8mm cables lugs (spades),
2x 4mm banana plugs, bare cable ends
Internal:
6mm cable lugs (spades), Solder Terminal

TPCU870 Connections

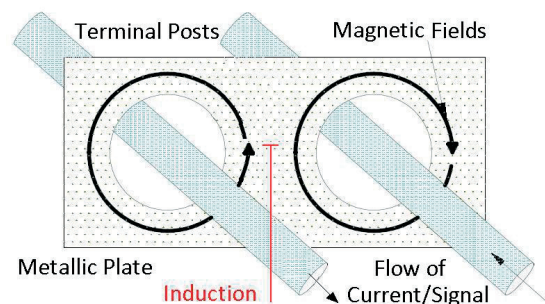
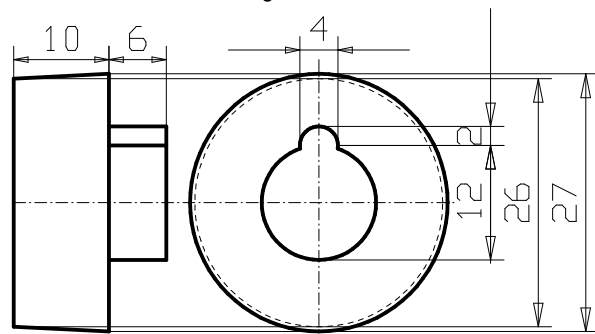
External:
6mm cable lugs, 8mm cable lugs (spades)
2x 4mm banana plugs, bare cable ends
Internal:
8mm cable lugs (spades), 4mm banana plugs
Solder Terminal (see also highly recommended MSolder on page 54)



Insulation and mounting hole TPCU670 und TPCU750

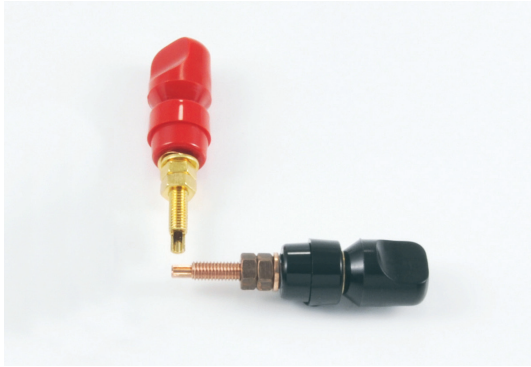


Insulation and mounting hole TPCU870



**Terminals
Terminal Posts**

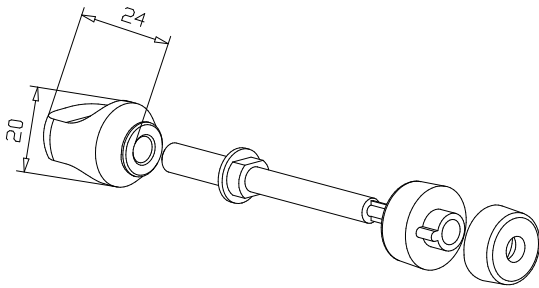
Inner Excellence



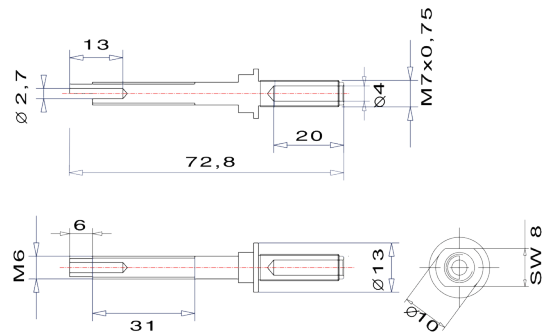
Binding posts 670



Binding posts 670 Evo



Copper terminal M6 isometric representation



Binding posts 670, 2 red + 2 black

2 pair

[€]

TPCU670C	Pure copper Classic	139,90
TPCU670E	Pure copper EVO	139,90
TPCU670GC	Copper gold-plated Classic	169,90
TPCU670GE	Copper gold-plated EVO	169,90

All terminal posts are also offered un-assembled as TPCU-OEM for efficient construction.

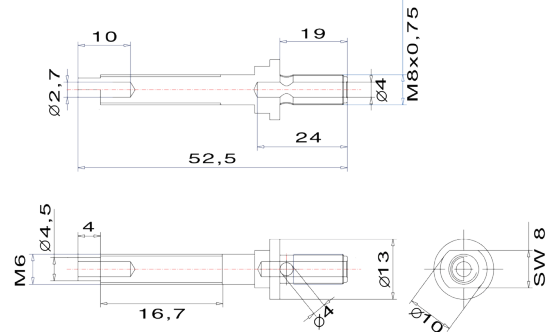


Binding posts 750 EVO

The Terminal Posts **TPCU750** were designed in 2015 for the use in audio applications with low wall thicknesses, like for example amplifiers and loudspeaker terminals.

These combine the superior connectivity of TPCU870 with the lean appearance of TPCU670.

Though their diameter is 20mm only, they own a cross hole to accommodate bare cable ends or a second 4mm banana plug.



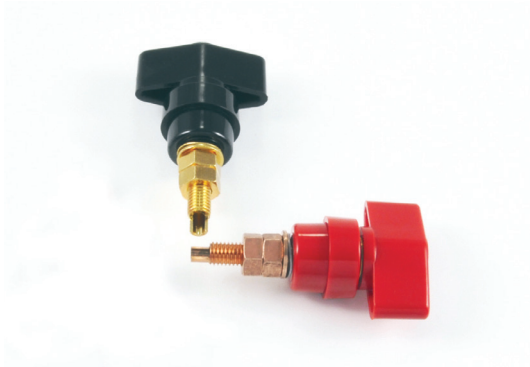
Binding posts 750, 2 red + 2 black

		2 pair [€]
TPCU750E	Pure copper EVO	139,90
TPCU750GE	Copper gold-plated EVO	169,90

All terminal posts are also offered un-assembled as TPCU-OEM for efficient construction.

**Terminals
Terminal Posts**

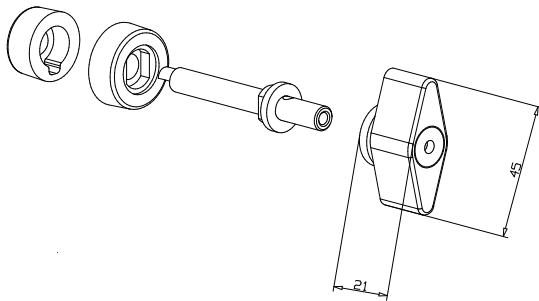
Inner Excellence



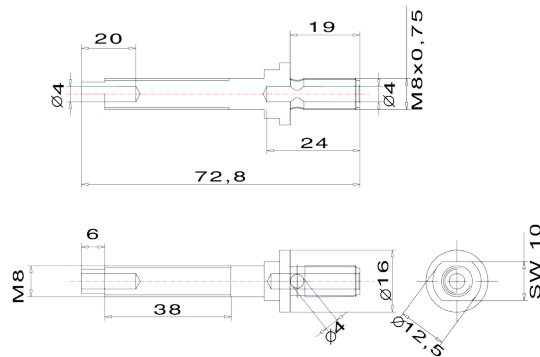
Polklemmen 870 Classic



Polklemmen 870 EVO



Copper terminal M8 isometric representation



Binding posts 870, 2 red + 2 black

2 pair
[€]

TPCU870C	Pure copper Classic	169,90
TPCU870E	Pure copper EVO	169,90
TPCU870GC	Copper gold-plated Classic	199,90
TPCU870GE	Copper gold-plated EVO	199,90

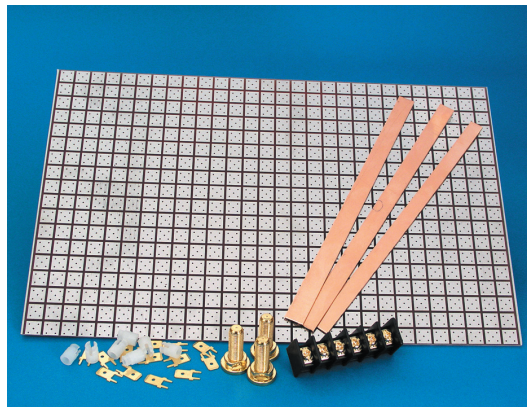
All terminal posts are also offered un-assembled as TPCU-OEM for efficient construction.

Crossover Network DIY Multiboard



The **multiboard** that we offer is a circuit board developed for quick and uncomplicated construction using individual parts and prototypes. The soldered side is divided into many copper areas, each measuring approx. 10 * 10 mm.

The components are glued directly onto the solder side and the connection wires are soldered to the copper surface



UNIP

Universal circuit boards

	[mm]	[€]
18	91 * 70	7,99
14	141 * 91	14,90
13	94 * 182	19,90
12	182 x 141	24,90
11	283 * 182	44,90

CUB300

Copper strips approx. 300mm

h*w [mm]	[€]
1 * 6	1,99
1 * 10	2,49
1 * 15	2,99

NIET.AL/AL

TriGo Aluminium Rivets for M5 coil assembly

D*L [mm]	500 pcs. [€]
4,8*15,3	42,90

FQW.TAPE

3M double-sided adhesive tape for components assembly

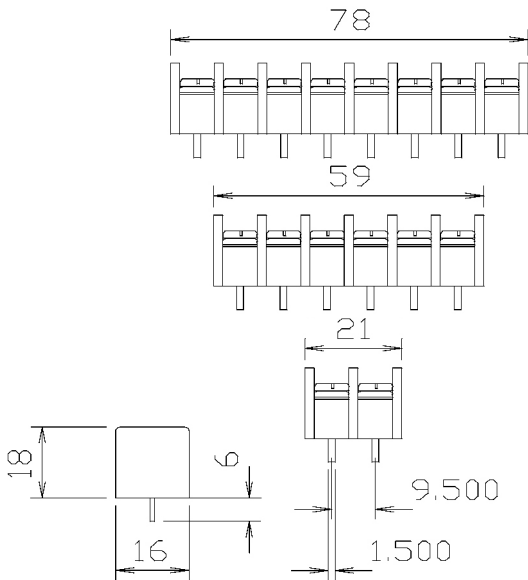
	W*H [mm]	Colour	66m [€]
BK09	9*0,8	black	39,90
WH09	9*0,8	white	39,90
WH19	19*0,8	white	49,90

Crossover Network DIY Circuite Board

Inner Excellence



These **circuit board terminals** make a simple screw connection between the circuit board and the cabling possible. They are particularly well suited for use in connection with our crossover component casings.



CBST92 Circuit board posts, 9,2mm grid dimension

Description		[€]	Bulk pack [pcs]
2G	2-pin, gold-plated	2,49	400
6G	6-pin, gold-plated	4,99	100
8G	8-pin, gold-plated	5,99	100

Additional Services

MATCH

Pair of capacitors up to < 0.2%

pair	[€]
	15,10

Additional coil tabs

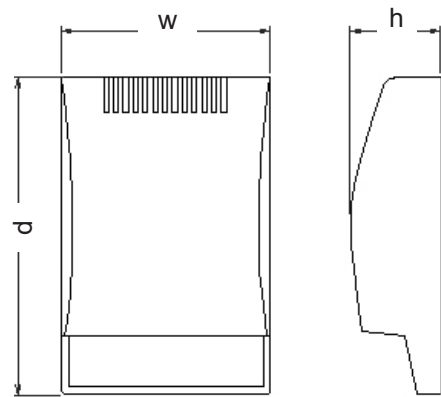
(zero-ohm coils excepted)

	[€]
	15,00



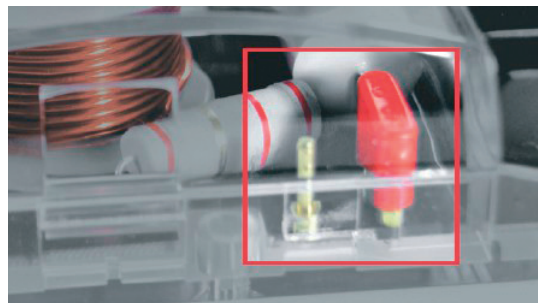
Crossover casing (without components)

Our beautifully shaped casings can be used for the support of individual crossovers, particularly in Cars.



Crossover casings W*D*H = 85*130*37mm

	[€]	Bulk pack [pc]
CAR2.BP-U Bottom Plate	2,49	200
CAR2.TC-U Top Case	2,49	200



MCONCBR-05

Mconnect connection bridge, red

	[€]
	2,49

MCONSPG-1

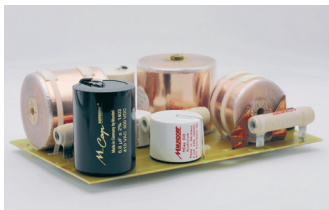
MConnect solder pin, gold-plated

	[€]
	0,49



MUNDORF *hifi*AMT®

Discover our innovative AMT loudspeaker drivers functioning accordingly the Air Motion Transformer principle invented by Oskar Heil. Those drivers, which can also be altered and manufactured to your requirements, are developed and manufactured in our Cologne headquarter.



MUNDORF Services & Solutions for industrial clients

In-house turnkey crossover network manufacturing from best budget quality to audiophile top-level at competition adequate manufacturing costs and competitive prices.



MUNDORF *pro*AMT®

Line source by principle.
135db at crystal clear.
1000W cool and safe.
Think AMT!

