LoRad

SUPRA® Cables
MADE IN SWEDEN
by JENVING TECHNOLOGY

English edition

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MADE IN SWEDEN

POWER

SUPRA LoRad

LoRad means LOw RADiation and minimize both electrical and magnetic fields.

LoRad protects both from fields radiating from the cable and pick-up of surrounding noise fields, e.g. wireless and mobile phones, radio broadcasts, etc.

LoRad MkII is a development of the Lorad concept, now with even improved shielding properties, flexibility, bend-resistance and strength.

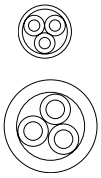
LoRad *Mark II*

LoRad means LOw RADiation and minimize both electrical and magnetic fields. LoRad protects both from fields radiating from the cable and pick-up of surrounding noise fields, e.g. wireless and mobile phones, radio broadcasts, etc. LoRad MkII is a development of the Lorad concept, now with even improved shielding properties, flexibility, bend-resistance and strength.

The radiation is lowered by means of two techniques. First the shield minimizing the alternating electrical fields from the cable. It also minimizes the RF pick-up (Radio Frequency). The magnetic fields are cancelled by twisting the conductors in a short pitch.

The benefits are cleaner sound, pronounced transients and an improved 3D soundstage. We also hear customers describe more detailed sound and we are not surprised. If your equipment is installed using SUPRA cables, the noise floor is generally suppressed by several dB, allowing more of the content to be revealed. Low radiating cables is also increasingly important from a health point of view. Science has proven that alternating magnetic fields affects cell growth.

The biggest differences between Lorad MkII and the old Lorad cable, is that it is now based on SUPRA's unique Nylon screen concept. Semiconducting Nylon Screen provides improved shielding properties, bending strength, environmental immunity, higher tensile strength and less microphonic effect. The Nylon screen is connected with a drain-wire. We have tested and evaluated all known types of screens for making such a good cable as possible. SUPRA's semi-conductive Nylon screen was the only one that passed the safety requirements and, moreover, its shielding properties was best in test. LoRad MkII is tested and certified by Intertek Sweden, meeting the European safety regulation HD21.5 S3.



3x1,5mm²
3x2.5mm²

TRY!

You can easily test the power cord radiation with AC field sensor.

Hold the sensor tip to a cable and if it lit, the cable radiates an electrical field. The cable need to be connected to a live wall socket.

Now, try the SUPRA LoRad instead and you will find no indication.

LoRad is the only shielded cable meeting the European safety regulation HD 21.5 S3. The cable must be connected to a wall socket with a ground terminal for the full LoRad effect.

Applications:

- Hi-Fi and studios
- Medical equipment
- Laboratories
- EHS (electro hypersensitivity)
- Noise critical installations

Selected customers:

- Swedish National Laboratory of Forensic Science, SKL
- Swedish Air Force (JAS Project)
- Hospitals
- A majority of European air traffic control towers

Item	Mechanical Specifications										Electr. Specifications		
	Cross. Area (mm^2/AWG)	No. Cond.	No. Wires	Wire Dia. (mm)	Wire Material	Insulation	Screen Coverage	Jacket	Ext. Size (mm)	Weight (g/m)	R (Ω/km)	Voltage Nom. (V)	Current Nom. (A)
LoRad 3G1,5	1.5 / 15	3	90	0,15	Tin plat. OFC	2 layers PVC	Semi-Cond. Nylon, 100%	Heat & Ageing Resitant PVC	Ø8,5	103	10,8	250	10
LoRad 3G2,5	2.5 / 13		320	0.10					Ø11	170	6.8		16

Additional product information available in the final section

LoRad

- Radio frequency interference reduced by 40dB!
- Internal wiring of 2.5sqmm oxygen free copper leads
- Supports a staggering up to 3680W of continuous power!
- Protects you and your Hi-Fi audio system from harmful noise fields and radiation!
- Suitable for wall mounting

LoRad Mains Block
with Aluminium Housing

Radiation Free, fully shielded in Aluminum with Non-Intrusive Filtering & Multi-way Surge Protection (SP-models).
Available for American, British and European standards.

A shielded mains distribution block in Aluminum with surge protection. Free from noise deriving from a variety of noise fields from e.g. cell phones, DECT phones, dimmers and many other domestic electrical equipment? SUPRA MD is a sound and performance enhancing mains distribution strip, containing a proprietary SUPRA NIF, Non-Intrusive Filtering circuitry, providing a mild noise and radio frequency filtering that will not slow down or mute the dynamics from your Hi-Fi audio system. The conscious Hi-Fi enthusiast connects the Supra MD mains distribution strip only to wall sockets with earth terminal using Supra LoRad mains flex (optional).

SUPRA NIF Transient Filter

A Non-Intrusive Filtering circuitry, providing a mild noise and radio frequency filtering that will not slow down or mute the dynamics from your Hi-Fi audio system. It is developed by Ben Duncan Research in UK.

Multi-way Surge Protection

When other manufacturers stop at one-way protection, i. e. only between the live and neutral lead from the power source, Supra goes all-in and offer a full three-way protection required to protect your HiFi audio system from e.g. a nearby light-ning strike. The conscious HiFi enthusiast connects the Supra MD mains distribu-tion strip only to wall sockets with earth terminal using Supra LoRad mains flex (optional).

LoRad *Mains Block Mk II*

MD06-US
NEMA-15 sockets according to American standard. Input connector according to IEC-320. 15 amp fuse and NIF filter.

MD06-US/SP
As MD06-US and in addition the SUPRA multi-way surge protection

MD06-BS/SP
UK 13A sockets according to British standard BS1363/A. Input connector according to IEC-320. NIF transient filter and the SUPRA Multi-way surge protection

BS1363

Hazard!
Supra provides this safety warning when arranging a grounding point other than provided in approved power outlet sockets! Grounding, by means of connection to radiators or any other interior fitting supposedly connected to ground, is absolutely FORBIDDEN as it could potentially be hazardous to yourself or any other resident!

Note!
SUPRA Mains Blocks must be connected to a ground terminal socket for the various protections and filters to become active.

Additional product information available in the final section

LoRad

Mains Block Mk III

The new EU Mk3 mains blocks are greatly improved. Even better connectors, filter and surge protection. All parts are made in Germany and Sweden. Assembling in the Supra factory, Ljungskile, Sweden.

MD06-EU

MD06-EU/SP

Not enough power?

MD08-EU/SP, MD10-EU/SP
– The complete solution

Modern multimedia systems often consists of many units and they all require power. The MD08 and MD10 include eight/ten Schuko EU sockets and is sufficient in most cases.

- SP - SUPRA Multi-way Surge Protection
- NIF - Non-Intrusive Filtering

A set of stainless steel brackets for wall mounting is included

MD10-EU/SP

LoRad *Mains Block Mk III*

MD06-EU

Radiation Free, with Non-Intrusive Filtering. 6 Schuko EU sockets. Input connector according to IEC-320. 10 amp ceramic fuse.

MD06-EU/SP

As above and in addition the SUPRA multi-way Surge Protection.
Suitable Mains Flex cords for MD06 is LoRad CS-EU
(refer to page 14 for details).

MD08-EU/SP

Radiation Free, with Non-Intrusive Filtering and SUPRA Multi-way Surge Protection. 8 Schuko EU sockets. Input connector according to IEC-320 16A.

MD10-EU/SP

Radiation Free, with Non-Intrusive Filtering and SUPRA Multi-way Surge Protection. 10 Schuko EU sockets. Input connector according to IEC-320 16A

16 amp+ground sockets!

Suitable Mains Flex cords for MD08/10-EU is LoRad CS-16-EU (refer to page 14 for details).

Item	Mechanical Specifications									Electr. Spec.	
	Filter Type	Surge Protection	Connectors, High Voltage Input		Output	Pin Material	Chassis	Fuse	Ext. Size LxBxH (cm)	Voltage Nom. (V)	Current Nom. (A)
MD06-BS/SP	NIF Transient Filter	3-way	MCH-10	->	6 x BS1363/A	Brass	Earthed Alum-inium	-	47x9,5x5,5	240	13
MD06-EU		-	MCH-10	->	6 x Schuko, EU/Fr			10 A	38x9x5,3		10
MD06-EU/SP		3-way	MCH-10	->	6 x Schuko, EU/Fr				43,5x9x5,3		
MD06-US		-	MCH-10	->	6 x Nema-15			15 A	32x8,5x5	110	15
MD06-US/SP		3-way	MCH-10	->	6 x Nema-15				36x8,5x5		
MD08-EU/SP			MCH-16	->	8 x Schuko, EU/Fr			-	54x9x5,3	240	16
MD10-EU/SP			MCH-16	->	10 x Schuko, EU/Fr			-	64,5x9x5,3	240	

Additional product information available in the final section

LoRad

Shielded Mains Flex

LoRad CS-EU

The European version is equipped with Schuko connectors. Available with straight & angled Schuko plugs. Fits in most countries in Europe except Denmark, Italy, Ireland and United Kingdom.

LoRad 1.5 and 2.5 CS-EU/Angled

Shielded mains flex available in two dimensions, i.e. 1.5mm² and 2.5mm², SW-10S connector according to IEC-320 and angled SW-EU/A plug.
Max 10 Amp, both dimensions.

LoRad CS-EU/Angled

LoRad 1.5 and 2.5 CS-EU

Shielded mains flex available in two dimensions, i.e. 1.5mm² and 2.5mm², SW-10S connector according to IEC-320 and SW-EU plug.
Max 10 Amp, both dimensions.

LoRad CS-EU

LoRad 2.5 CS-16-EU

Shielded mains cable with inner conductors of dimension 2.5mm², SWF-16 connector according to IEC-320 and SW-EU plug.
Max 16 Amp

LoRad CS-16-EU

LoRad 2.5 CS-16-EU/Angled

Shielded mains cable with inner conductors of dimension 2.5mm², SWF-16 connector according to IEC-320 and angled SW-EU/A plug.
Max 16 Amp.

LoRad CS-16-EU/Angled

LoRad CS-BS

British standard BS 1363/A shielded mains cable. Only available factory terminated in 1.5mm² conductor diameter due to British Standard regulations.

LoRad 1.5 CS-BS

Shielded mains cable with 1.5mm² diameter inner conductors, SWF-10 connector according to IEC-320 and MC-BS-plug.

LoRad CS-BS

LoRad CS-US

US standard, NEMA-15, also common in Asia. The plug meets hospital grade approval.

LoRad 1.5 and 2.5 CS-US

Shielded power cord available in two dimensions, i.e. 1.5mm² and 2.5mm², SWF-10 connector according to IEC-320 and SW-US-plug.
Max 15 amp, both dimensions.

LoRad CS-US

Item	Mechanical Specifications							Electr. Spec.	
	Application	Cable Inlet	Standard	Conn. <Direction> Conn. Wall Socket		Equipment	Screen Connection	Voltage Nom. (V)	Current Nom (A)
LoRad 1.5 CS-EU	Earthed 250V	Straight x 2	EU/Fr	SW-EU	->	SWF-10s	Semi-Conductive Nylon/ Carbon	250	10
LoRad 1.5 CS-EU/A		90-D/Straight		SW-EU/A	->	SWF-10s			
LoRad 1.5 CS-BS		Straight x 2	British	MC-BS	->	SWF-10s			13
LoRad 1.5 CS-US	Earthed 110V		Nema	SW-US	->	SWF-10s		110	15
LoRad 2.5 CS-EU	Earthed 250V		EU/Fr	SW-EU	->	SWF-10s		250	10
LoRad 2.5 CS-EU/A		90-D/Straight		SW-EU/A	->	SWF-10s			
LoRad 2.5 CS-US	Earthed 110V	Straight x 2	Nema	SW-US	->	SWF-10s		110	15
LoRad 2.5 CS-16-EU	Earthed 250V		EU/Fr	SW-EU	->	SWF-16		250	16
LoRad 2.5 CS-16-EU/A		90-D/Straight		SW-EU/A	->	SWF-16			

Additional product information available in the final section

LoRad

Grounded, Reconnectable Connectors, Audio Grade, Hospital Grade, Patented

SW-EU

SW-EU Male Plug

16A Schuko, European Standard. Gold plated pins. Accepts a cable dia. up to 11mm and cable area up to 2.5mm².

SW-EU Angled

SW-EU/A 90-deg Angled Male Plug

16A Schuko, European Standard. Gold plated pins. Accepts a cable dia. up to 11mm and cable area up to 2.5mm².

SWF-10S

SWF-10S

Female cord connector, 10 amp, IEC-320 standard, gold plated connectors and suitable for SUPRA Mains Flex 1.5 and 2.5mm².

SWF-16

SWF-16

Female cord connector, 16 amp, IEC-320 standard, gold plated connectors and fit SUPRA Mains Flex 2.5mm². Requires a 16 amp chassis connector and will not fit MCH10 below.

SW-US NEMA

SW-US

Male cord plug, 15 amp, Nema-15 US standard, gold plated connectors and suitable for cables up to 11mm.

MCH10

MCH10

Male chassis connector, 10 amp, IEC-320 standard and 10A ceramic fuse.
Fits SWF-10/S above.

MC-BS

MC-BS

Male cord plug, 13 amp, British standard, gold plated connectors and suitable for cables up to 11mm.

SUPRA LoRad SW Series

A Series of Patented Mains Plugs

SW is a series of mains plugs for 110-240V, safety approved Hospital Grade and Audio Grade. Sturdy design provides for reliability and long life. Accepts large cable diameter, up to 11mm. Easy to assemble, no loose screws, nothing to slip onto the cable before termination. Available for American, British and European standards.

Item	Mechanical Specifications									Electr. Spec.	
	Male/ Female	Connector	Cable Inlet	Standard	Pin Material	Conductor Connection	Cable Clamping	Max Cable Dia. (mm)	Mounting Hole (mm)	Voltage Nom. (V)	Current Nom. (A)
SW-EU/A	Male	3-pole Cord Plug	Angled 90-D	EU & French	24K Gold Plated Brass	Screw	Screw	Ø11	-	250	16
SW-EU			Straight								
SW-US				Nema						110	15
MC-BS			Angled 90-D	British			Clamp			250	13
SWF-10s	Female	3-pole Cord Plug	Straight	Inter-nationel			Screw				10
SWF-16											16
MCH-10	Male	3-pole Chassis	-	IEC-320		Soldering	-	-	26,5 x 20		10

Additional product information available in the final section

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