



JENVING has been producing high quality cables for over 30 years.

In competition with mostly more expensive products SUPRA

has won an impressive number of awards around the world.

The Hi-Fi press often speaks about SUPRA products in terms of

NO NONSENSE

value-for-money High End products. The company philosophy is to make "no nonsense design"

products with the highest possible quality in cables, connectors and material. In combination with creative and patented inventions SUPRA is always a step ahead.

Before our first product, SUPRA Classic 2.5 Speaker Cable (over 30 years ago), there were no speaker cables, but just cables.

Our latest products "SWORD" speaker- and interconnect cable surprise Hi-Fi friends all over the world with their performance.

If you are looking for super designed, mysterious cables, well...

we don't have them! But If you are looking for real Hi-Fi,

High End cables, then SUPRA is definitely your choice.





new design for RCA and new SUPRA GS, Ground Separators. Read more about them on the next page.

SUPRA DisplayPort Cable

DisplayPort is a new VESA standard for connecting computer to any kind of Display. Many big companies have joined the DispalyPort standard such as AMD, Intel, Nvidia, HP, Lenovo, Dell, Philips, Samsung and Texas Instruments, to mention a few.

As a replacement for VGA and DVI it has many advantages. It carries signals for sound (up to 8 channels), USB and high-resolution display formats. All in one tiny cable. All in the digital domain.

It excels the HDMI standard, with bit rate up to 10.8Gb/sec. The connector resembles the HDMI, but it is slightly bigger and is fitted with latches to a sure safe connections.

SUPRA DisplayPort cables will be launched in the spring of 2009.





Big Small Connectors News!



Sometimes a small change in a product design will make a big difference. The space behind Flatsceen TV's and home cinema receivers is often very limited. So we created a new series of bent connectors, RCA and HDMI, which also can be placed in close proximity as shown in the picture. They are very space efficient.

SUPRA Bent RCA

This connector is easy to assemble. No screws. The bent design is not only space saving but minimizes the strain on the chassis connectors, which often are soldered directly on the PCB, which can be fragile.

The construction is Patent Pending.

The bent RCA will be offered as an option with the higher priced interconnects when ordering.

SUPRA Ground Separator

SUPRA GS, Ground Separator. This little thing solves issues with hum in sound and "sparks" in pictures owing to ground loops and polarisaton conflicts.

As shown in the picture, it comes in 3 versions:

Bent and straight with PAL connectors, and straight with F-connectors.







The Trick

How you get a bent and too big connector through a small conduit pipe

SUPRA Bent HDMI

This new version of SUPRA HDMI connector is made in metal, and is very easy to attach/detach. There is a plastic moulding over the soldered part that fits exactly in the metal housing. (see picture, left.)

Two versions are provided with all of these HDMI interconnects. One is bent, one is straight: use the one that fits your setup best.

This HDMI interconnect series will be launched in the beginning of 2009.

- . Can you pull this connector through a conduit pipe?
- 2a. All parts are easily detachable.
- 2b. These are the parts of the dis-assembled connector.
- 2c. The soldered part is overmoulded for protection.
- 3. Nylon braid is used as an aid to pull the cable through the conduit. Fasten the braid to the pulling tool with a knot.
- 4. Picture showing how much space there is left in the pipe.
- As you can see, despite the sharply bent pipe, the cable got through, effortlessly.
- 6. Assembled cable and connector ready for use.





ATC Approved HDMI V1.3c



5		
	6	A A

	Item					N	Mechanio	al Spe	cifications									Star	ıdar	d Le	ngths		
		Connection	Application	Conn. <	Direct.	> Conn.	HDMI PIL	ıgs Incl.	Max	Cable	Solder Tin	Connector	Cable	Colour				(1m =	3.28	ft)		
		Configuration	Examples	From		To	Straight	Bent	Resolution			Fixing	Clamping		1m	2m	3m	4m !	5m	6m 8	3m 10r	12m	15m
Н	IDMI-HDMI MetAngle	Single	DVD/Projector/TV	HDMI	<->	HDMI	2	1	HDMI v1.3,	HF100	Almit SR-34	-	Mold	Ice	Х	х	х	х	х	х	х х	х	х
H	IDMI-DVI MetAngle	Link	DVD/Comput./TV	HDMI	<->	DVI-D	1	1	1080p	пгіоо	Suprer	-/Screw	Mold/Clamp	Blue	х	х	х	х	х	х	х х	Х	х

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CABLES / CONNECTORS

SUPRA LoRad

LoRad stands for Low Radiation. SUPRA LoRad is the one and only audio classified shielded mains cable that is safety approved in compliance with HD 21.5 S3.

The shield protects from the electric field, and a twisting of the conductors with a short pitch extinguishes the magnetic field. This results in cleaner sound, correct transients and a better stereo definition with 3-dimensional characteristics. Simply closer to the truth.

Patented by Tommy Jenving

SUPRA OctoPower

- always power at full speed

Problems with connector corrosion in your car or boat? SUPRA's power cables are tinplated to be immune to environmental degeneration from salt water or humidity under the hood.



Tips and Tricks: A simple way to check the cable radiation is to use an AC field sensor.

Hold the AC sensor against a cable and if it lights up it means the cable is radiating noise fields. Of course, the cable must be connected to the wall socket that is switched on.



Check SUPRA LoRad in the same way and you will find that it does not indicate any noise radiation.



AC sensors are available from SUPRA dealers or electrical stores.



SUPRA LoRad Patented Shielded Mains Flex

LoRad stands for Low Radiation of electric and magnetic alternating fields. Protects your equipment from radiated mains noise, as well as from RF pick-up.

The screen protects from the electric field and a short pitch twisting protects from and cancels the magnetic fields.

This will typically result in a cleaner sound and more accurate transients, which in turn give you a tighter bass, better 3-Dimension presence and stereo definition. Closer to the truth.

Besides this, the human health aspect should be considered. It is scientifically proven that magnetic alternating fields affect the human cell growth.

The secret of LoRad is the yellow/green earth conductor. Normally all shielded cables have 4 conductors, blue, brown, yellow/green and one uninsulated wire in contact with the shield. So far, it has not been possible to pass the safety test for flex use with this naked drain wire as it cuts and damages the cable inside when the cable is repeatedly moved and bent.

As usual, SUPRA did something unexpected. The yellow/green earth conductor was instead insulated with semi-conductive plastic. No drain wire needed anymore and the cable passed the flex test. The cable is electrically shielded as the foil is in connection with the semi-conductive plastic on the earth conductor. SUPRA LoRad is connected as any unshielded mains cable, the shielding is automatically connected.

LoRad must be connected to an earthed socket in order to get the shielding function.

SUPRA LoRad is the sole audio grade mains cable in the world with full European safety approval. Certified in compliance with HD21.5 S3.

SUPRA's screening concept is patented worldwide by Tommy Jenving.

Applications:

- Hi-Fi and studio system
- Medical equipment
- Measurement- and laboratory equipment
- For people sensitive to electric/ magnetic radiation
- In any application where electric/ magnetic interference is critical

Some customers :

The Swedish National Laboratory of Forensic Science SKL

Air Force (JAS project) Hospitals







Safety approved in compliance with HD 21.5 S3

LoRad

Shielded Mains Flex 110-240V

LoRad earth conductor 40% yellow and 60% green circumference surface

Light green insulation. 20% of c.s.

Dark green semi-conductive plastic 20%+20% = 40% of c.s.

Yellow insulation. 40% of c.s.

Conductor. 1.5 mm or 2.5 mm

000412 Tommy Jenving

Item						Mech	anical Sp	ecifications					Ele	ectrical S	pec.
	Colour	Cross Sec. Area	No.	No.	Wire Dia.	Wire	Insulation	Shield	Jacket	Ext. Size	Weight	Length/Bobbin	R	Voltage	Current
		(mm²/AWG)	Cond.	Wires	(mm)	Material		Coverage		(mm)	(g/m)	(m / ft)	(Ω/km)	Nom. (V)	Nom. (A)
LoRad 3G1	,5 Ice Blue	1.5 / 15	2	90	0,15	Tinned	2 Layer	Aluminium/PET	Heat & Ageing	Ø8,5	103	100m/328ft	10,8	250	10
LoRad 3G2	,5	2.5 / 13	١ ،	320	0.10	OFC	PVC	Foil, 100%	Resitant PVC	Ø11	170	50m/164ft	6.8	230	16



LoRad Shielded Mains Blocks in Aluminium

The mains blocks are fully shielded from radiated electric fields by means of their aluminium chassis. The conductive chassis drains the interference down to ground. It has to be connected to an earthed socket with an earthed mains cable, in order to work properly.

For a useful degree of shielding and immunity, the mains block should be combined and employed with SUPRA LoRad shielded mains cables.

Unique Stand-by Surge Protection, designed by SUPRA Not connected in the circuit until a surge occurs

LoRad

Shielded Mains Blocks















3-way Surge Protection

The SP-models, i.e MD06-EU/SP and MD06-US/SP, are equipped with SUPRA's surge protection device which protects all three ways: Live to Earth, Neutral to Earth and Live to Neutral.

Many other surge protectors are only Live to Neutral, and do not protect against field surges by proximate lightning. Lightning is always referred to earth.



All models are equipped with SUPRA NIF (Non-Intrusive Filtering), a mild transient filter which will not influence the transient properties of the equipment. SUPRA NIF is developed by Ben Duncan Research in England.

MD06-US

NEMA-15 sockets. American standard. Input connector: IEC-320 15 Amp Fuse NIF transient filter.

MD06-US/SP

Same as MD06-US, but in addition equipped with the 3-way surge protection.

MD06-EU

6 EU sockets, Schuko. Inlet connector: IEC-320 10 Amp Fuse NIF transient filter.

MD06-EU/SP

Same as MD06-EU Mark II but in addition equipped with the 3-way surge protection.

MD06-BS

6 UK 13A sockets, British Standard BS1363/A Inlet connector: IEC-320 NIF transient filter.

MD06-BS/SP

Same as MD06-BS, but in addition equipped with the 3-way surge protection.

Item							Mechanic	al :	Speci	fica	ations							Elec.	Spec
	Qty/	Filter Type	Surge	Conn	ecto	rs, Hig	ıh Voltage	Ra	dio Ne	etw	ork Tel,	/Fax	Pin	Chassi	Fuse	External Size	Colour	Voltage	Current
	Pack		Protection	Input			Output		TV	ĪΙ	Sat		Material			LxBxH (cm)		Nom. (V)	Nom. (A)
MD06-BS/SP			3-way	MCH-10	->	6 x	BS1363/A								-	47x9,5x5,5			13
MD06-EU			-	MCH-10	->	6 x 5	Schuko, EU/Fr						24K		10 A	38x9,5x5,5		240	10
MD06-EU/SP	1 pc	NIF Transient	3-way	MCH-10	^	6 x 5	Schuko, EU/Fr						Gold	Earthed,	10 A	42x9,5x5,5	Silver		10
MD06-US		Filter	-	MCH-10	->	6 x	Nema-15						Plated	Aluminium	15 A	32x8,5x5		110	15
MD06-US/SP			3-way	MCH-10	->	6 x	Nema-15						Brass		13 A	36x8,5x5		110	15
MD08-EU/SP			3-way	MCH-16	->	8 x S	Schuko, EU/Fr	X	Х	X	Χ	Х			16 A	65x9,5x5,5		240	16



Surge Protection for:

Satellite Receiver/CATV

Radio Aerial

TV Aerial

Network/Broadband

Telephone/Fax/Modem

Not Enough of Sockets?

MD08-EU/SP

- A complete solution

Your Home Cinema and Hi-Fi may comprise a lot of equipments and they all need to be connected to mains sockets.

8 EU sockets, Schuko

Input connector: IEC-320 16 A

(IEC-320 is an international standard for mains connectors.)

NIF transient filter

3-way surge protection



Input connector: IEC-320 16 A, SWF-16



Safety approved in compliance with HD 21.5 S3

SUPRA LoRad is the sole audio grade mains cable in the world with full European safety approval.



SUPRA GS

Ground Separators

Ground Isolator for aerial cables to TV, CATV and Radio. Eliminates Audio and Video interference noise, created by earth loops and stray leakage potentials in the cable shield.

GSS TV EU

Straight shape ground separator for TV/CATV with the European PAL system.

Gold-plated female PAL to male PAL connectors.

GSB TV EU

Bent shape ground separator for TV/CATV with the European PAL system.

Bent shape for easier connection directly into the TV.

Gold-plated female PAL to male PAL connectors.

GSS AERIAL F-CON

Straight shape ground separator for TV/CATV (outside EU). Gold plated female to female F-connectors.
Supplied with two gold-plated



cord connectors.

Item			Me	echai	nical Specification	S				
	Version	Application	Connector <<< D	irectio	on >>> Connector	Construction	Frequenc	y Range	Attenuation	Colour
		Examples	From		To		From	To	Freq. Range	
GSS TV EU	1 P 22		Aerial Female	<->	Aerial Male	Inductive			Max	
GSB TV EU	Bent	(Not for use between	Aerial Female	<->	Aerial Male	transmission	100MHz	1,4GHz	5dB	Ice Blue
GSS Aerial F-Con	Straight	satellite dish and receiver)	F-Connector Female	<->	F-Connector Female					

LoRad CS-EU (10A)

EU-version, with Schuko plugs, is the most common standard throughout Europe. Exceptions are Denmark, Italy, Ireland and Britain.

LoRad 1.5 CS-EU

LoRad 2.5 CS-EU

Screened cord set with LoRad 3x1.5 mm² cable and SWF10 connector A similar cord set but with LoRad 3x2.5 mm² cable.

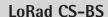
Current rating 10A.

(IEC-320) and SW-EU plug. Current rating 10A.









British standard, BS1363A. This BS-approved cord set is available only in CSA 3x1.5 mm². British (UK) safety standard does not approve factory produced cord sets of CSA 2.5 mm².



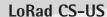
Shielded mains cord set with LoRad 3x1.5, SWF10 connector (IEC-320) and MC-BS plug.







Screened Cord Sets



US-version, NEMA-15, is the American standard and also common throughout Asia.

The plug is approved Hospital Grade.



Screened cord set with LoRad 3x1.5, SWF10 connector (IEC-320) and SW-US plug. Current rating 15A.



Screened cord set with LoRad 3x2.5,







SWF10 connector (IEC-320) and SW-US plug. Current rating 15A.



LoRad 2.5 CS-EU-16

Screened cord set with LoRad 3x2.5, SWF16 connector (IEC-320) and SW-EU-16 plug. Current rating 16A.





CE	

Item			Me	echa	anical Spec	cifications				Elec.	Spec	S	tanda	ard L	.eng	ths
	Application	Standard	Conn. < Dir	ectio	on > Conn.	Screen	Conductor	Cable	Colour	Voltage	Current		(1 m	= 3.2	28 ft)	
			Wall Socket		Equipment	Connection	Connection	Clamping		Nom. (V)	Nom (A)	1m	1,5m	2m	4m	W/0*
LoRad 1.5 CS-EU	Earthed	Eu/Fr	SW-EU	->	SWF-10	Automatic				250	10	х	х	x	Х	Х
LoRad 1.5 CS-BS	250V	British	MC-BS	->	SWF-10	Screen				230	13	х	х	х	Х	Х
LoRad 1.5 CS-US	Earthed 110V	Nema	SW-US	->	SWF-10	Connection.	Screw	Screw	Ice Blue	110	15	х	х	х	Х	Х
LoRad 2.5 CS-EU	Earthed 250V	Eu/Fr	SW-EU	->	SWF-10	The Earth				250	10	Х	Х	х	Х	Х
LoRad 2.5 CS-US	Earthed 110V	Nema	SW-US	->	SWF-10	Insulation is				110	15	х	х	х	Х	х
LoRad 2.5 CS-EU-16	Earthed 250V	Eu/Fr	SW-EU	->	SWF-16	Semi-Cond.				250	16	х	х	х	Х	х





SW-EU Male Plug 16A Schuko, European Standard. Gold plated pins. Accepts a cable diametre up to 11 mm. Mates also the French standard.





(S)



SWF-10 Female Connector
10A. IEC-320.
Gold plated terminations.
Accepts a cable diameter up to 11 mm.

SUPRA LoRad SW, a Series of Patented Mains Plugs

SW is a series of mains plugs for 110-240V, safety approved Hospital Grade and Audio Grade. Accepts big cable diametres. Easy to assebmle, no lose screws, nothing to slip onto the cable before termination.

Available for American, British and European standards.

Design and patent: Tommy Jenving.



SWF-16 Female Connector
16A. IEC-320.
Gold plated terminations.
Accepts a cable diameter up to 11 mm.

LoRad

Earthed, Rewireable
Mains Connectors
Audio Grade
Hospital Grade
Patented



MCH10 Male Chassis Connector 10A. IEC-320. Gold plated pins. Fits SWF10.





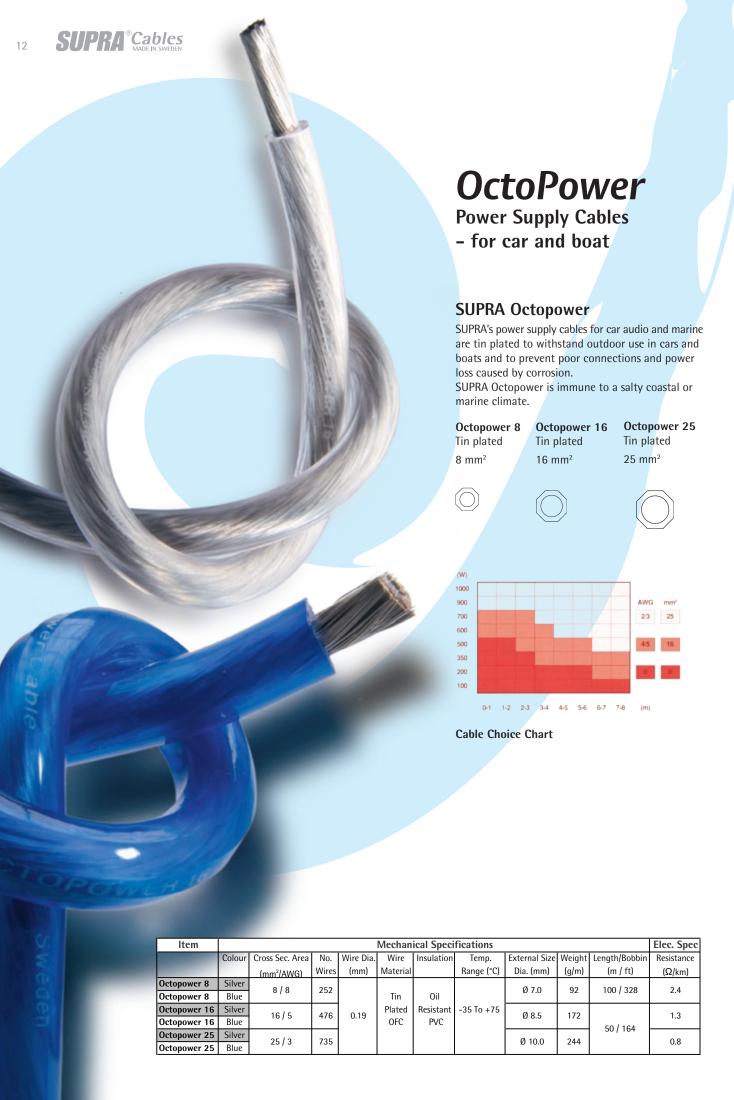
SW-US Male Plug
15A. Hospital Grade.
Nema 15 American standard.
Gold plated pins.
Accepts a cable diameter up to 11 mm.



MC-BS Male Connector with Fuse 13A, British standard BS1363A. Gold plated pins. Accepts a cable diameter up to 11 mm



Item				ľ	Mechani	cal Specific	cations					Elec.	Spec
	Qty/	Male/	Connector	Standard	Pin	Conductor	Cable	Max Cable	Cable	Mounting	Colour	Voltage	Current
	Pack	Female			Material	Connection	Clamping	Dia. (mm)	Inlet	Hole (mm)		Nom. (V)	Nom. (A)
SW-EU				EU & French			Screw		Straight	-	Anthracite	250	16
SW-US		Male	3-pole Wall Socket	Nema	24K		SCIEW	V	Straight	-	Antinacite	110	15
MC-BS	1 pc			British	Gold	Screw	Clamp	Ø11	Angled		Ice Blue		13
SWF-10		Female	3-pole	Inter-	Plated	\ \	Screw		Straight		Anthracite	250	10
SWF-16		Temale	Equipment Conn.	national	Brass		SCIEW		Straight		Antinacite		16
MCH-10		Male	3-pole chassis Conn.	IEC-320		Soldering	-	-	-	26,5 x 20	Ice Blue		10



POWER

CABLES / MAINS BLOCK / CONNECORS

SPEAKER

CABLES / CONNECTORS

INTERCONNECT

CABLES / INTERCONNECTS / CONNECTORS

HDMI & DVI

CABLES / INTERCONNECTS / CONNECTORS

INSTALLATION

CABLES / CONNECTORS

SUPRA **SWORd** - High End

Would it not be nice to have the very best sound medium between amplifier and loudspeakers, performing with total transparency? SUPRA Sword is a successful attempt to create a cable of that quality. Not the most inexpensive, but the best.

There is also a Sword Interconnect: RCA or XLR.

Patented design.

SUPRA Ply - Focusing Dynamics/Transients

The flat sandwich design contributes to enhanced dynamics in the music. Positive side effects: reduced interference and interaction distortion. Tin plated.

SUPRA **Rondo** - High Flex, Twisted, Round

A recognized way to extinguish interference in a cable is by twisting the conductors. The usual side effect is torsion tension in the conductors, and the cable will suffer from bending fatique. SUPRA Rondo is produced in big specially made twisting machines that eliminates this problem and make a very efficient short pitch twisting possible. Tin plated.

SUPRA Classic - 99.999% Pure Copper

All SUPRA products are built with the highest possible quality in material and components. Already more than 30 years ago Surpa first loudspeaker cable changed people's attitude to what cable should be used for connecting the loudspeakers. That was SUPRA 2.5, which later became SUPRA Classic 2.5, and is still going strong. Tin plated.

Tin Plating

A SUPRA concept for cleaner sound.

The tin is of higher resistance than copper and also protects copper from bad sounding corrosion. It also minimises the current jumps from wire to wire over corroded copper surfaces while more of the signal passes through the pure copper *inside* the wires. The tin layer also minimises the skin-effect, by acting as a semi-Litz.

SUPRA

Sword





Sword 3m (10 ft) pair

SUPRA's flagship. Sword is a patented cable. The secret is the bifilar-wound litz conductors, each comprising 24 individually insulated wires.

The bifilar winding is built with 12 of these wires helically wound in one direction and 12 in the opposite direction. This divides the magnetic field into opposing directions resulting in self-cancellation. Because Sword's conductors comprise a number of insulated wires, dynamic skin-effect is also cancelled.

Therefore Sword behaves as a non-inductive and phase stable cable.

What does it sound like?

SUPRA Sword passes the most complex music transients without any deformations. Signal delay is suddenly the same at all musical frequencies. Therefore it vanishes, giving a clear 3-dimensional presence, a sure sign of the highest fidelity.

Patent holder: Johnny Svärd

SUPRA Sword is also available as Interconnect cable with RCA or XLR connectors.
See page 27 for more info.

Sword is available only as a terminated set

Owing to the special construction with two opposite wound wire groups which cancel each other's fields, the termination quality is very critical.

The termination is done with strong, gas-tight crimping, so the joined metals are fused into one unit. This is more pure and secure than any soldering.

Sword is available in standard lengths of 2m, 3m, 4m pairs, delivered in a Mahogany wood case.

Termination: Spade/Banana/BFA combination connector. Customized lengths available on order.

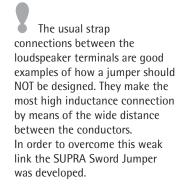
Sword

Loudspeaker Cable

Sword Jumper, 28 cm pair

Fixed Spade termination, not the CombiCon, i.e. not replacable with Banana connectors. This is a bridge connection for loudspeakers with double inputs (Bi-amp).

Tom Frantzen of the German magazine STEREO created the idea of this product.





Item						N	1echanic	al Specific	ations						Elec.	Spec	S	tandar	d Leng	ths
	Colour	Cross Sec. Area	No.	No.	Wire Dia.	Wire	Insula-	Jacket	External Size	Attach	ed Conne	ctors	Cable	Solder Tin	R	L		(1m =	3.28ft)	
		(mm²/AWG)	Cond.	Wires	(mm)	Material	tion		(mm)	Banana	Spade	BFA	Conn.	(For Disenameling)	(Ω/km)	(µH/m)	2m	3m	4m	W/0*
Sword Pair			2					Heat &		х	х	х		Almit SR-34			х	х	х	х
Sword Single	Ice Blue	3 / 12	1	12+12	0.4	Enameled	PE	Ageing	9.3x18.4	х	х	х	Crimp	Super Sn 96.5%,	F 2	0.25	х	х	х	х
Sword Jumper	ice blue	3 / 12	2	12+12	0.4	OFC Wire	rE	Resistant	9.3818.4	-	х	-		Ag 3%, Cu 0.5%	5,2	0.25		2x28 cm	1	х
Additional Lenght			1					PVC		-	-	-	-	Lead Free			Add	ditional	cost of o	able





A Square Thinking **Good Dynamics**

SUPRA PLY - 'A Logical and Progressive Design'

Audio cables' performance is initially determined by their loop resistance (R) & inductance (L) & shunt capacitance (C). For most speakers R & L must be low, but capacitance value, C doesn't matter as speakers already act as large cap loads. But simply using larger wire makes R low, at the expense of an increasing ratio to L with musically unacceptable effects. Ways to make inductance L low also with low resistance, include tapes, either stacked or arranged in ribbons. But these types are impractical to fit to nearly every speaker connector without discontinuities, & are stressed often unsightly when bends are required in real installs & also aren't suited to mobile uses. Litzing with multiple, insulated conductors is more practical, but quality Litzes are expensive and termination not easy. Other types are gross, like industrial pipes, unsuited to many domestic spaces.





Simplistic fat conductors' rising impedance (due to L) of +6dB/ octave is further raised by internal eddy currents causing 'Skin effect', like 'the square root of inductance', adding. +3dB/oct, to the L-reactance slope. For typical cable runs, net inductivity is such that performance in heavy plain conductors is measurably affected with steady signals just above 1kHz.

Cables with copper or silver stranded conductors suffer from complex oxidation. The semi conductive 'diodes' between the strands aren't seen by steady tests, but look like a high capacitance to music signals. This causes energy storage/release cycles, that regular tests miss, yet which is audible with music. This problem is also describable as the electron flow being 'trapped' inside strands & twisting away from the direct route.

SUPRA PLY is a large section, low resistance cable, overcoming skin effect Et transient distortion, using pure tin plating. Tin melds to copper without any diodic barrier, & also protects the copper from common corrosions - ideal for outdoors & 12 volt. Most audiograde cables' conductors are damaged by contamination, by plastic out-gassing, from the impure atmosphere, & liquid spills. Some are protected but

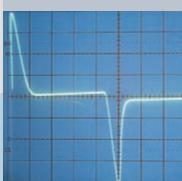
only by a thin coating that'll one day crack with use and age. Neatly,

oxidation forming on PLY is sonically benign.

When installing, PLY's rectangular conductor is readily circularised for insertion into receptacles of most regular

connectors. Square outer profiling suits most housings too

- unlike ribbons, tapes & litzes. PLY is readily coiled, more like thinner, basic cables - making it friendly in temporary setups.



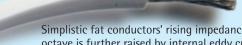
Ply CombiCon

Fig. 1: Losses for wide spaced

cable



Fig. 2: Oscilloscope graph of losses for Ply 2.0



Ply 2.0 Ply 3.4

Loudspeaker Cables

Demoing the Difference

Other Advantages

Unlike some audio products, benefits of SUPRA PLY are readily shown by repeatable measurements. Fig.1 using a swept sine wave shows progressively increasing losses >1kHz for all cables, caused by L & skin effect, ranging to 10dB at 20kHz ultrasonic sounds do matter [3]! Ply's low-loss behaviour for hf audio (incl. bass transients), is evident. Figs. 2, 3 are time domain 'scope pics, showing typical dynamic/damping differences with a square wave. After transients, SUPRA's Ply restrains the peaking & accelerates the signal's return to 0 volts at the speaker end. Peaking in wide spaced cable shows limp damping & hf loss, because it has high L & low C, the opposite of what's required to drive most speakers.

Γ	Item				Mech	nanical S _l	pecificat	ions			Elec.	Spec	Star	ıdard	Lengths
Г		Colour	Cross Sec. Area	No.	No.	Wire Dia.	Wire	Insulation	External Size	Weight	R	L	Bliste	r Pack	Bobbin
		(mm²/AWG)		Cond.	Wires	(mm)	Material	& Jacket	(mm)	(g/m)	(Ω/km)	(μH/m)	5m	10m	(m / ft)
F	Ply 2.0	Ice Blue	2.0 / 14	2	120	0.15	Tinned	Heat & Ageing	5.8x5.8	74	8.1	0.30	Х	х	100 / 328
F	Ply 3.4	ice blue	3.4 / 12		192	0.15	OFC	Resistant PVC	7.2x7.2	97	5.1	0.20	Х	Х	100 / 328

Item		Mech	anical	Speci	ficat	ions		Sta	ndar	d Lei	ngths
	Cross Sec. Area	Qty/	Cor	necto	r	Cable	Colour		(1m =	3.28	ft)
	(mm²/AWG)	Pack	Banana	Fork	BFA	Connection		2m	3m	4m	W/0*
Ply 2.0 Combicon	2.0 / 14	1 nair	х	Х	Х	Nut	Ice Blue	х	Х	х	Х
Ply 3.4 Combicon	3.4 / 12	1 pair	х	Х	х	Fixing	ice blue	х	Х	Х	Х

SUPRA Cables

Ply / Linc

Shielded

Cables

Loudspeaker

Less Radiation

The radiation from unshielded loudspeaker cables is often stronger than that from ordinary mains cables.

SUPRA screened loudspeaker cables radiate less interference to low level circuits, inputs and interconnects.

The shielding is also highly effective in rejecting high frequency interference, by minimising aerial pick-up.

The minimising of interference fields is recommended in all fixed installations, with computers playing an increasing part in everyday life. Sensitive networks of low level information control all kinds of operations.

Meanwhile, multi-room installations often require audio, video, data and loudspeaker lines to run through ceilings and walls in very close proximity.

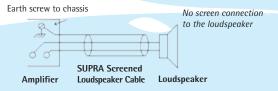
The biological effects of electric and magnetic fields should also be considered.

The Screened PLY

The screened SUPRA PLY 3.4/S combines low inductance and tin plating with the shielding concept, making it a top high-end loudspeaker cable.

See below for connection of screened cables!

Connection of Screened Loudspeaker Cables:



PLY 3.4/S

2x3.4 mm². Tin plated, sandwich design. Application examples: High power systems, or longer lengths in low to medium power systems or where RF levels warrant it or where runs must be next to mains or lower level signal cables.

LINC

SUPRA LINC is designed with an Alu/PET shield which reduces effects from stray electric fields, and a short pitch twisting which minimises the magnetic field as well as giving the cable low inductance.

LINC stands for Low INteraction Concept.

LINC 2.5

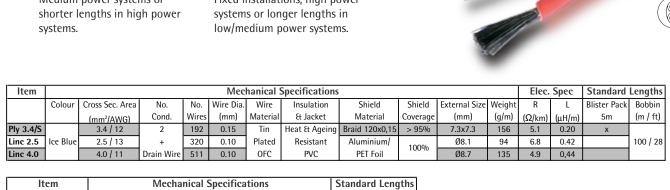
2x2.5 mm². Tin plated. Application examples: Medium power systems or

LINC 4.0

2x4.0 mm². Tin plated. Fixed installations, high power



Application examples:



Item		Mec	hanical	Spec	ificat	tions		Sta	ndar	l Lei	ngths
	Cross Sec. Area	Qty/	Con	necto	r	Cable	Colour	((1m =	3.28	ft)
	(mm²/AWG)	Pack	Banana	Fork	BFA	Connection		2 m	3m	4m	W/0*
Ply 3.4/S Combicon	3.4 / 12	1	х	Х	Х	Nut Fixing	Ice Blue	х	Х	Х	Х



The Rondo Family

SUPRA Concentric Cables are highly flexible and of short pitch twisting for low inductance and low radiation as well as a high tolerance to frequent bendings and vibrations before bending fatique.

This short pitch twisting requires special machines, and is a slower and more expensive production which you do not often find in other than the SUPRA portfolio.



Rondo

Application examples:

Hi-Fi or stage use in medium or

shorter lengths in high power

Application examples: Bi-wiring, pair channel cable for medium power systems or single channel connected for high power systems.

For Hi-Fi or stage use.

Application examples: Bi-wiring, pair channel cable or single channel connected for high power systems. For Hi-Fi or stage use.

Tips and Tricks:

How to connect SUPRA Rondo 4x2.5 and Rondo 4x4.0 for lowest inductance

Connecting Rondo as shown in the figure below will make a lower inductance of 0.25 and 0.35 μ H/m, respectively, which in turn makes them top class high-end loudspeaker cables.



Item			M	echani	ical Speci	ification	S			Elec.	Spec	Star	ndard	Lengths
	Colour	Cross Sec. Area	No.	No.	Wire Dia.	Wire	Insulation	External Size	Weight	R	L	Bliste	r Pack	Bobbin
		(mm²/AWG)	Cond.	Wires	(mm)	Material	& Jacket	(mm)	(g/m)	(Ω/km)	(μH/m)	5m	10m	(m / ft)
Rondo 2x2.5	Anthracite		2					Ø 7.7	110		00.40	Х	х	100 / 328
Rondo 2x2.5	Ice Blue	2.5 / 13	2	320		Tin	Heat &	<i>V</i> 7.7	110	6.8	00.40	х	х	100 / 320
Rondo 4x2.5	Anthracite	2.5 / 13		320	0.10	Plated	Ageing	Ø 9.7	170	0.0	0.35	Х		75 / 246
Rondo 4x2.5	Ice Blue		4		0.10	OFC	Resistant	W 9.7	170		0.35	х		75 / 246
Rondo 4x4.0	Anthracite	4.0 / 11	4	511			PVC	Ø 11.0	236	4.3	0.40	Х		50 / 164
Rondo 4x4.0	Ice Blue	4.0 / 11		511				ט.ווש	236	4.3	0.40	Х		50 / 164

Connect the loudspeaker cables for signal direction = direction of the legend (text) printed on the cable. Explanation on page 50.

The Classic Series

The SUPRA Classic Series comprises highly flexible cables containing tin plated multi-stranded OFC copper of purity degree 5N, which means >99.999% pure, i.e. purer than five nines. The insulation is a special ion stable PVC which minimises corrosion of the sonically benign tin surface. The tin contributes to a better sound quality by minimising the skin-effect and making less current jumps between the wire surfaces.

This series covers all Hi-Fi applications from low power speakers, such as rear speakers of home theatre systems, to high power systems with long cable lengths.



Mini 1.6

2x1.6 mm²

An economy version of Classic 1.6 of fewer wires.

Application examples: Low power such as rear speakers of home theatres. Available only in white.

Classic 1.6

2x1.6 mm²

Application examples: Tweeters in biwiring, low power systems or shorter lengths of medium power systems.

Classic 1.6/H Halogen free

2x1.6 mm²

Same as Classic 1.6 but with fire retardant ECCOH-insulation. This makes it slightly stiffer but with a lower surface friction, which is good for installation.



Classic 2.5

2x2.5 mm²

Application examples: Medium power systems, or shorter lengths in high power systems. Available in both Ice Blue and Anthracite Grey.

Classic 2.5/H Halogen Free

2x2.5 mm²

Similar to Classic 2.5 but using fire retard- ant PE insulation. This makes it slightly stiffer but with a lower surface friction, which is good for installation.

More about flame retardant material on page 49!

Classic 4.0

2x4.0 mm²

Application examples: High power systems, or longer lengths in low/medium power systems.system.

Classic 6.0

2x6.0 mm²

Application example: High power, longer lengths

Classic Loudspeaker Cables

SUPPA Classil

Tips and Tricks:

For bi-wiring, Nylon Braid and Heat Shrink are available in kit-form. See page 45.

Item				Me	echanical	Specifi	cations			Elec.	Spec	5	Stand	ard L	engths
	Colour	Cross Sec. Area	No.	No.	Wire Dia.	Wire	Insulation	External Size	Weight	R	L	В	lister I	Pack	Bobbin
		(mm²/AWG)	Cond.	Wires	(mm)	Material		(mm)	(g/m)	(Ω/km)	(μH/m)	5m	10m	20m	(m / ft)
Cl. Mini 1.6	White			90	0.15		Heat & Ageing			10.8				Х	
Classic 1.6		1.6 / 15		204			Resistant PVC	3.1x6.2	44	10.5	0.40		х	х	300 / 984
Classic 1.6/H	Ice Blue			204		Tin	Halogen Free/Flame ret.			10.5					
Classic 2.5						Plated	Heat & Ageing					Х	х	Х	
Classic 2.5	Anthracite	2.5 / 13	2	320	0.10	OFC	Resistant PVC	3.6x7.3	65	6.8	0.45				200 / 656
Classic 2.5/H							Halogen Free/Flame ret.								
Classic 4.0	Ice Blue	4.0 / 11		511			Heat & Ageing	4.8x9.6	108	4.3	0.55	Х	х		100 / 328
Classic 6.0		6.0 / 9		756			Resistant PVC	5.5x11.2	154	2.9	0.59	Х	х		100 / 328

Connect the loudspeaker cables for signal direction = direction of the legend (text) printed on the cable. Explanation on page 50.



Boxcon

24K gold plated speaker cabinet connector.

For cables up to 10 mm² or Banana/Fork. For cabinet wall thickness up to 29 mm. Red and Black.

1 pair/pack Also available in bulk of 50 pairs

Fork

24K gold plated spade. The width of the fork grip is 5.5 mm. The cable can be connected either on axis or on a 90° angle.

Fits up to 10 mm² cables. Adapter screw for 4 mm. Banana plug is included.

SUPRA Fork is the most copied of our products worldwide.

2 pairs/pack Also available in bulk of 200 pcs

Fork-XL

A larger variation of SUPRA Fork. The size of the Fork-XL is 6.5 mm. The adapter screws for Banana plugs are not included in this product.

Banana

24K gold plated.
4 mm Banana plug for up to
10 mm² cables. Can be connected either on axis or at a 90° angle.
Red and Black housings.

2 pairs/pack Also available in bulk of 200 pcs 2 pairs/pack Also available in bulk of 50 pairs











Loudspeaker Connectors



SUPRA Fork is one of our most copied products worldwide.

Item					Med	chanical Spec	cifications				
	Qty/	Connector	Mounting	Male/	Material	Connector	Cable	Max Cable Area	Mounting	External Size	Colour
	Pack			Female		Fixing	Connection	(mm²/AWG)	Hole	WxHxL (mm)	Identification
Boxcon	1 pair	Banana/Fork/Cable Direct	Chassis	Female	24K	Screw/Clamp	Screw/Sold.		M8	Ø19x35-64	Red/Black
Fork	4 pcs	Fork, 5.5 mm			Gold			10 / 7		8x20x21	
Fork XL	4 pcs	Fork, 6.5 mm	Cord	Male	Plated	-	Screw	10 / /	-	10x12.5x26	-
Banana	2 pairs	Banana/BFA Plug			Cu	Expansion Pin				10x18x42	Red/Black

CombiCon Banana

24K gold plated loudspeaker connector for cables up to 6mm². The Banana pin fits also BFA plugs or connectors. The cable can be attached straight on axis or at a 90 degree angle. A Banana pin can be attached to the connector body.

2 pairs/packBulk pack:50 pairs of Banana pin and50 pairs connector body.



24K gold plated loudspeaker connector for cables up to 6 mm². The cable can be attached straight on axis or at a 90 degree angle. Another spade can be attached to the connector body.

2 pairs/pack Bulk pack: 50 pairs of Spade and 50 pairs connector body.

CombiCon Kit

A set of 2 pairs of connector body, 4 pcs of Spade and 4 pcs of Banana/BFA.

CombiCon Assortment

An assortment set of 50 pairs of connector body, 50 pcs of Banana/BFA and 50 pcs of Spade.
For dealers and installers.







SUPRA Cables

CombiCon

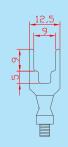


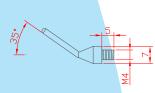
CombiCon

This combination connector comprises two parts: a termination part of cable to be screwed onto a connector body. The connector part is of two types; Spade and Banana pin, which in turn also fit BFA plugs.

The Connector Body

The connector body can be attached to the cable either on axis or at 90 degree angle. See the R.H. picture above. Also a spade terminated cable can be attached to the connector body. Printing in red and black, respectively, for polarity identification.





Drawing of the Spade

Loudspeaker Connectors

CombiCon



The Banana pin also fits BFA connectors.

The Spade is angled for easier mounting in tight spaces. It has a two step, wide opening, see drawing to the left.

Item					N	1echanical	Specificat	ions		
	Qty/	Con	necto	r	Material	Connector	Cable	Max Cable Area	External Size	Colour
	Pack					Fixing	Connection	(mm²/AWG)	DxL (mm)	Identification
CombiCon Banana	2 pairs	х		Х	24K	Exp. Pin				
CombiCon Spade	2 pairs		Х		Gold	-	Nut	6/9	Ø13x20.5	Red/
CombiCon Kit	2+2 pairs	х	Х	Х	Plated	Spring/	Fixing	6/3	Ø13X20.5	Black
CombiCon Assortment	50 pcs each	Pr				Pin/-				



INTERCONNECT

CABLES / INTERCONNECTS / CONNECTORS

It takes interconnect cables to connect up a Hi-Fi system or home cinema.

It seems easy, and used to be, but in 2009

there is a lot to pay attention to.

Some connector standards are geographically limited, as for example the Scart connector is used only in Europe. *In the video field there are a great variety of connector* types and signal systems.

SUPRA offers a very wide assortment.

Hundreds of different connectors and combinations to cover the requirements of our worldwide markets.

Silver Plating

Only when the frequencies are very high, as in digital signals, does it seem wise to go the opposite way, i.e. to silver plate for a lower surface resistance. At such high frequencies it is hard to keep the signal inside the wire, so instead we design for an easier surface current flow.

Digital Interlinks

Important properties of digital cables are a high propagation velocity factor and a correct and stable characteristic impedance (Z).

Analogue Interconnects

Low capacitance (C) is important.





EFF-IAnalogue Interconnect Hi-Fi

Our multi test winner!

A reinforcement of even the finest details is the goal of all cable design. A traditional cable can, however, not achieve that quality, due to the construction. A good interconnect must have low capacitance and low skin-effect.

The skin-effect has a dynamic and noticeable influence because an audio signal is nothing but variations of frequencies and sound levels. If we were to transfer only one stable frequency the skin-effect would not be any problem. The frequencies push the signal differently far out from the centre of the conductor. High frequencies travel on the surface whereas low frequencies travel inside the conductor.

Thus, the higher the frequency, the higher the resistance. In order to minimize the skin-effect the EFF-I is designed in accordance with Equalized Frequency Flow (EFF) Technique. It is based on tube shaped conductors with a wall thickness of 0.20mm, which is well below the smallest skin depth within the Audio range. This allows the same resistance for all frequencies. The result is a transparent and exact reinforcement with clear room definition.

EFF-I One of SUPRA's most awarded products, not without good reason...

EFF-I

Analogue Interconnect Hi-Fi Analogue connection, for instance from CD or pre-amp to amplifier. Suitable connectors:

SUPRA PPSL, PPX and Swift XLR.

Design

0.5 mm²/conductor. Tube shaped and flexible conductors wound on a core of PE. Two conductors with individual screening for balanced or semi-balanced connection.

Effective skin depth

 $\delta = 1 \sqrt{-\pi} \, \mu_r \, \mu_0 \, \sigma \, f \qquad \qquad \text{Less current here}$





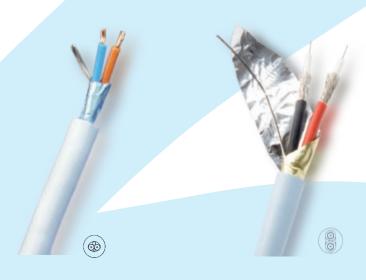


0.91 mm Skin depth at 5 kHz



0.46 mm Skin depth at 20 kHz

Item						ivie	cnanicai 5	респисати	ns					Elec	tricai 5	pec.
	Colour	No.	Application	Cross Sec. Area	No.	Wire Dia.	Wire	Conductor	Screen	Jacket	External Size	Weight	Length/Bobbin	R	С	Velo.
		Cond.	Examples	(mm²/AWG)	Wires	(mm)	Material	Insulation			(mm)	(g/m)	(m / ft)	(Ω/km)	(pF/m)	Factor
Biline		2	Stereo Sub., MP3	0,20 / 24	1	0,4	Sn Plated	PE Foam	Braid & Alu/PET	Heat	Ø7.0	53	100 / 328	87.5	45	0.78c
Dual			Hi-Fi	0.24 / 23	19	0,127	OFC	PE	Alu/PET Foil	Et	2 x Ø5.5	70	100 / 328	72	52	0.66c
DAC	Ice Blue		Analogue/Digital	0.54 / 20	19	0.19	OFC	PE Foam	Cond. Nylon,100%	PVC	Ø6.1	43	50 / 164	45	110	0.78c
Eff-i		1	Hi-Fi, High End	0.46 / 21	12	0.22	Ag pl. OFC	PE	Aluminium/	Ageing	Ø7.2	68	50 / 164	38	75	0.66c
SubLink			Mono Sub Woofer	0.24 / 23	19	0,127	Sn pl. OFC	I.E	PET-Foil	Resistant	Ø6.0	48	100 / 328	72	52	0.66c



Analogue Cable

Subwoofer/MP3/Hi-Fi

DAC

Hi-Fi

A 'fast' interconnect of extremely low capacitance. In accordance with our design concepts, the inductance is to be low for a loudspaker cable whereas for an interconnect the capacitance is to be low. SUPRA DAC is insulated with a special PE which exhibits only 45 pF/m capacitance. It is screened with our very efficient and strong semiconductive nylon ribbon.

The velocity factor of SUPRA DAC is as high as 78% of the speed of light, owing to the low dielectricity of the insulation. With PTFE/Teflon it would have been only 71%.

The velocity factor can be calculated with the simplified formula: $v = \sqrt{1/K}$ where K is dielectricity factor of the insulation. More clean transients and thus improved space dimension comes with the high velocity.

SubLink

Mono Subwoofer/ Analog Hi-Fi

A two-core screened interconnect for semibalanced connection. Low capacitance and efficient noise rejection maintain signal integrity in the long run interconnects, which are often required for subwoofer links. It can be connected balanced or semi-balanced.

Suitable connectors: SUPRA RCA-6 and Swift XLR.

BiLine

Stereo Subwoofer/MP3

A concentric twin-coax interconnect cable. Each pair is screened and jacketed to make complete cables. Application examples: Y-Links from AV amps with 1 output to subwoofer with 2 inputs or corresponding with mini plug 3.5mm SUPRA MP-8 from computer or MP3 to amp.

For balanced or semi-balanced connection. Suitable connectors: SUPRA RCA-6, MP-8 and PPX.



DAC

Hi-Fi

Round 2-core interconnect with a common semi-conductive Nylon screen.
A fast interconnect of neutral character.
Low capacitance.

Application example:
Analoge interconnect between CD/pre-amp and power amplifier.

Suitable connectors: SUPRA PPX, PPSL, RCA-6 and Swift XLR.



Dual

Hi-Fi

A dual-in-line interconnect cable for semibalanced connection and with screens of aluminum foil. Low capacitance.

Application examples:

Analoge interconnect between cd/fpre-amp and power amplifier. For balanced or semi-balanced connection.

Suitable connectors: SUPRA RCA-6 and Swift XLR.

Item						Me	chanical S	pecificatio	ins					Elec	rical S	pec.
	Colour	No.	Application	Cross Sec. Area	No.	Wire Dia.	Wire	Conductor	Screen	Jacket	External Size	Weight	Length/Bobbin	R	С	Velo.
		Cond.	Examples	(mm²/AWG)	Wires	(mm)	Material	Insulation			(mm)	(g/m)	(m / ft)	(Ω/km)	(pF/m)	Factor
Biline		2	Stereo Sub., MP3	0,20 / 24	1	0,4	Sn Plated	PE Foam	Braid & Alu/PET	Heat	Ø7.0	53	100 / 328	87.5	45	0.78c
Dual			Hi-Fi	0.24 / 23	19	0,127	OFC	PE	Alu/PET Foil	Et	2 x Ø5.5	70	100 / 326	72	52	0.66c
DAC	Ice Blue		Analogue/Digital	0.54 / 20	19	0.19	OFC	PE Foam	Cond. Nylon,100%	PVC	Ø6.1	43	50 / 164	45	110	0.78c
Eff-i		1	Hi-Fi, High End	0.46 / 21	12	0.22	Ag pl. OFC	PF	Aluminium/	Ageing	Ø7.2	68	50 / 104	38	75	0.66c
SubLink			Mono Sub Woofer	0.24 / 23	19	0,127	Sn pl. OFC	FE	PET-Foil	Resistant	Ø6.0	48	100 / 328	72	52	0.66c

EFF-ISL

Analogue interconnect.

Designed for minimized skin-effect.

Best applied between CD/pre-amp and power amp. Enhances transients and timing for true sound performance. Supplied with SUPRA PPSL RCA connectors with squeeze locking.

EFF-IX

Analogue interconnect.

Designed for minimized skin-effect.

Best applied between CD/pre-amp and power amp. Enhances transients and timing for true sound performance. Supplied with SUPRA PPX RCA connectors.

EFF-XLR

Analogue interconnect.

EFF-interconnect for balanced professional connection. Designed for minimized skin-effect.

Best applied between CD/pre-amp and power amp. A balanced connection picks up less interference and is therefore recommended for long cable runs. Provided with SUPRA SWIFT XLR connectors.

DAC-SL

Analogue Inteconnect.

A 'fast' interconnect of neutral character. Low capacitance. Best applied between CD/pre-amp and power amp. The 'fast' cable keeps transients pure and thus helps 3-D definition in the music.

Provided with SUPRA PPSL RCA connectors with squeeze locking.

DAC-X

Analogue Interconnect.

A 'fast' interconnect of neutral character. Low capacitance. Best applied between CD/pre-amp and power amp. The 'fast' cable keeps transients pure and thus helps 3-D definition in the music.

Provided with SUPRA PPX RCA connectors.

DAC-XLR

Analogue Interconnect. Balanced.

A 'fast' interconnect of neutral character. Low capacitance. Best applied between CD/pre-amp and power amp. The 'fast' cable keeps transients pure and thus helps 3-D definition in the music.

A balanced connection picks up less interference and is therefore recommended for long cable runs. Provided with SUPRA SWIFT XLR connectors.

Dual-RCA

Analogue Interconnect.

A value for money test winner.

Low capacitance. Best applied between CD/pre-amp and power amp. With metal connectors for best screening. Provided with SUPRA RCA-6 connectors.



















Analogue Cables

High-End/Hi-Fi

All SUPRA Connectors have shielded metal housings, and the cables are designed with SUPRA's efficient screening.

This guarantees interference free cable runs.

The cables are designed for low capacitance and high velocity.

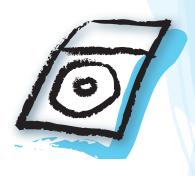
The result is better definition and dynamics.

Item					Mechanical Specificat	ions						Stan	d. Le	engths
	Qty/	Application	Connector <<< E)irecti	on >>> Connector	Cable	Screen	Solder Tin	Connector	Cable	Colour	(1n	n = 3.	.28Ft)
	Pack	Examples	From		То		Connection		Fixing	Clamping		1m	2m	W/0 *
DAC-SL		Analogue Hi-Fi,	PPSL RCA	<->	PPSL RCA		Semi-	Almit SR34	Squeeze	Squeeze	Ice Blue	Х	Х	х
DAC-X		Cinema or	PPX RCA	<->	PPX RCA	DAC	Balanced	Super	Expension	Screw	1	х	Х	х
DAC-XLR		High End	SWIFT XLR 3F LIGHT AU	->	SWIFT XLR 3M LIGHT AU		Balanced	Sn 96.5%,	Bayonet	SCIEW	Anthracite	Х	х	х
Dual-RCA	1 pair	Analogue Hi-Fi, Cinema	RCA-6	<->	RCA-6	Dual	Semi-	Ag 3%,	Expension	Crimp		х	Х	х
EFF-ISL		Analogue Hi-Fi,	PPSL RCA	<->	PPSL RCA		Balanced	Cu 0.5%	Squeeze	Squeeze	Ice Blue	Х	Х	х
EFF-IX		Cinema or	PPX RCA	<->	PPX RCA	EFF-I		Lead Free	Expension	Screw	ice blue	х	х	х
EFF-IXLR		High End	SWIFT XLR 3F LIGHT AU	->	SWIFT XLR 3M LIGHT AU	1	Balanced		Bayonet	SCIEW		х	Х	х



Analogue Cables

SACD / SubWoofer / MP3



6RCA - 6RCA

SACD Cable

For 5.1 Analogue sound from the SACD to the surround system. When there is a better DA converter in the SACD you would prefer the analogue option.

Provided with SUPRA RCA-3 connectors.

SubLink-RCA

Mono Sub-Woofer Cable

For connection between receiver and active sub-woofer (mono). Low capacitance and high interference immunity make longer cable runs possible, which most often is the case for sub-woofer connection.

Provided with SUPRA RCA-6 connectors.

Y-Link

Stereo Sub-Woofer Cable

For connection between receiver and active sub-woofer (stereo). Y-Link is a Y connected semi-balanced cable, from one to two RCAs. Low capacitance and high interference immunity make longer cable runs possible, which most often is the case for sub-woofer connection.

Provided with SUPRA PPX and RCA-6 connectors

BiLine-Mp

MP3/Ipod/Computer Cable

When you want the best from your Ipod / MP3 / computer to your Hi-Fi equipment. The cable is fully screeed and immune to external interference from, for instance, the computer.

Provided with SUPRA MP-8 and RCA-6 connectors.











Item				Mechanica	al Specif	ications								Star	ıdar	d Le	ngths		
	Application	Connect. <<< Directi	on >>	> Connect.	Cable	Screen	Solder Tin	Connector	Cable	Colour				(1m =	3.28	ft)		
	Examples	From		To		Connection		Fixing	Clamping		1m	2m	4m	6m	8m	10m	12m	15m	W/O *
6 RCA - 6 RCA	SACD/AV	6 x RCA-3	<->	6 x RCA-3	AV-6.4	Unbalanced	Almit	Ехр.	Clamp		Х	Х	х		х			х	х
Biline MP-RCA	Computer/MP3/iPod	MP-8 3.(5m)m Stereo	<->	2 x RCA-6	BiLine	Semi-	SR34	- / Exp.	Clamp	Ice Blue	Х	Х	Х		х			х	х
SubLink-RCA	Active Mono Sub.	RCA-6	<->	RCA-6	SubLink	Balanced	Super	Evn	Crimp			Х	Х	х	х	Х	Х	х	х
Y-Link	Active Stereo Sub.	PPX RCA	<->	2 x RCA-6	BiLine	Y-koppling		Exp.	Screw/Crimp			Х	Х	х	х	Х	Х	х	х

SUPRA





Hi-Fi CHOICE AWARD 2007 "Best Interconnect over £100" **Bronze Medal**

SUPRA SWORD-ISL RCA **SUPRA SWORD-IXLR**

The success with the Sword loudspeaker cable woke-up the thoughts about an interconnect cable constructed in compliance with the same patented design.

The cable works as a perfect signal carrier without the side effects of the traditionally designed cables. It is hard to beat the Sword series, regrdless of price.

Available semi-balanced (RCA) and balanced (XLR). Limited edition.

For you who want the best possible!

SUPRA Sword is also available as loudspeaker cable with Spade and Banana connectors. See page 13 for more info.

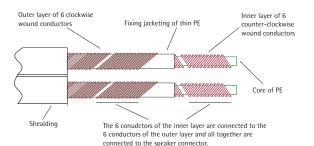


The sketch below explains the principle design with the 12 insulated conductors. 6 conductors are wound clockwise, 6 are wound counter clockwise. In the same way as a short pich twisted cable extinguishes interference the Sword concept elimininates electrical defects and allow the same velocity over the whole frequency range.

Patented design by Johnny Svärd

Analogue **Cables**

High End



Item					Mechani	cal Specificat	tions					Electri	cal Specification	ns
	Colour	Cross Sec. Area	No.	No.	Wire Dia.	Wire	Insulation	Shield	Jacket	Ext. Size	R	С	Phase Dislocation	Phase
		(mm²/AWG)	Cond.	(mm)	(Ω/km)	(nF/m)	0.5-100 kHz	Deviation						
Sword-I	Ice Blue Metallic	1.5 / 15	2	8	33	0,14	0.96 Degrees	0						

Item					Mechanical Spec	ification	IS					Star	dard	Lengths
	Qty/	Application	Connector <<< D	irect	ion >>> Connector	Cable	Screen	Solder Tin	Connector	Cable	Colour	(1	m = 3.	28ft)
	Pack	Examples	From		To		Connection		Fixing	Clamping		0.8m	1m	W/0 *
Sword-ISL	1 nois	Analogue,	RCA-8SL	->	RCA-8SL	Curord I	Semi-bal.	Almit SR34	Squeeze	Carau	Ice Blue	х	Х	Х
Sword-IXLR	1 pair	High End	SWIFT XLR 3F LIGHT AU	->	SWIFT XLR 3M LIGHT AU	Sword-I	Balanced	Super	Bayonet	Screw	Metallic	х	Х	х

* W/O Cable = Customized lengths available.



DAC

Digital 110 Ohm

Our 'fastest' cable. Designed for digital Audio with XLR-interface, AES/EBU110 Ohm. Suitable connectors: SUPRA Swift XLR.

AnCo

Video/Digital cable 75 Ohm

AnCo is developed for use with aerials, video or component video.

For component video you have to run 3 cables in parallel.

Fits SUPRA RCA-6, BNC-6 and the new antennae connector Acon.

Trico

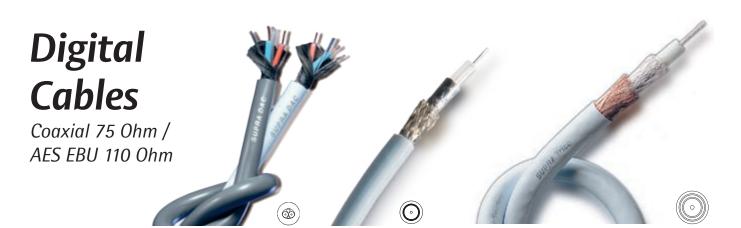
Video/Digital cable 75 Ohm

Double screening, 'fast' and low insertion loss: 0.6 dB/100m.

Our best video/digital cable.

True 75 Ohm.

Application example: composite video, such as DVD to TV/projector or digital Audio (s/pdif) from DVD to AV amplifier.
Suitable connectors: SUPRA PPX, MP-8 or BNC-8



DAC

DAC Digital/Analogue Interconnect Cable, AES/EBU Harmonised, 110 Ohm

A 'fast' interconnect of extremely low capacitance. In accordance with our design concepts, the inductance is to be low for a loudspaker cable whereas for an interconnect the capacitance is to be low. SUPRA DAC is insulated with a special PE which exhibits only 45 pF/m. It is screened with our very efficient and strong also semi-conductive nylon ribbon. SUPRA DAC is also co-designed for digital audio and is harmonised with the AES/EBU standard. (Square wave of 60 MHz, impedance 110 Ohms, balanced.)

The very high frequency properties of SUPRA DAC are outstandingly good, owing to its high velocity factor.

The velocity factor of SUPRA DAC is as high as 78% of the speed of light, owing to the low dielectricity of the insulation. With PTFE/Teflon it would have been only 71%.

The velocity factor can be calculated with the simplified formula $v = \sqrt{1/K}$ where K is the dielectricity of the insulation material.

More clean transients and thus improved space dimension comes with the high velocity.

Anco

Anco Aerial/Component Cable, 75 Ohm, Co-axial Designed for 75 OHM applications. Solid centre core for high quality video properties. Silver plated screen and centre core for enhanced high frequency transfer. PE insulation for low capacitance and high velocity factor. Upgraded with double screening in 2008.

Trico

Trico Digital/Video Composite Cable 75 Ohm, Co-axial

SUPRA Trico is double shielded interconnect cable of very low capacitance, insulated with PE foam which produces only 58 pF/m and makes the cable's propagation velocity as high as 78% of the speed of light. The centre conductors are made of silver plated OFC copper. The silver plating of the conductor and screen enhances the cohesive properties of the cable, for signals at high frequencies.

Trico is double-shielded with a braided inner screen of silver plated oxygen-free copper and an outer of bare OFC-braid. The screens provide efficient noise protection. The high technology design of Trico produces an extremely low attenuation: -0.6dB/100m at 1MHz and -7.1dB/100m at 100MHz.

True 75 Ohm: The characteristic impedance is very stable: +/- 1.5 Ohms from 1MHz up to 100MHz.

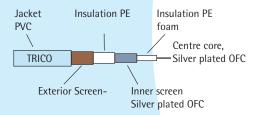
Item							Mechan	ical Specifications							Elec	trical S	pec.
	Colour	Application	Cross Sec. Area	No.	Wire Dia.	Wire	Conductor	Inner Shield	In. Shield	Outer Shield	Jacket	Dia.	Weight	Length/Bobbin	С	Imp. Z	Velo.
		Examples	(mm²/AWG)	Wires	(mm)	Material	Insulation	Coverage	Insulation	Coverage		(mm)	(g/m)	(m / ft)	(pF/m)	(Ω)	Factor
DAC	Ice B./Anthr.	Analogue/Digital	0.54 / 20	19	0.19	OFC	PE Foam	Cond. Nylon,100%	-	-	Heat & Ageing	Ø6.1	43	50 / 164	45	110	0.78c
AnCo	Ice Blue	Video/Aerial	0.28 / 23	1	0.6	Silver	PE	Aluminium Foil	-	Braid Sn OFC,>95%	Resistant	Ø6.2	52	150 / 492	72	75	0.72c
Trico	ice blue	Video/Digital	0.71 / 19	7	0.36	Plated OFC	PE Foam	Braid Ag OFC, >95%	PE	Braid OFC, >90%	PVC	Ø8.2	105	50 / 164	58	75	0.78c

Digital Formats

For digital applications it is always important to chose a cable with the right characteristic impedance.

The characteristic impedance of source, cable and receiver must match (be the same) in order to avoid signal loss by reflections.

- S/PDIF stands for Sony Philips Digital Interface.
- AES/EBU stands for Audio Engineering Society and European Broadcasting Union.



Coaxial Digital 75 Ohm

S/PDIF - the most common consumer electronic format

75 Ohm S/PDIF is an interface for BNC- or RCA-connectors. The most common in Hi-Fi applications.

Trico-RCA

- Application example: DVD to AVR amlifier.

Trico-BNC

- Application example: CD transport to DAC.

Trico-MP/RCA

- Application example: Computer till audio amplifier These 75 Ohm digital interconnects are designed to carry the full digital spectrum, and can be applied in all 75 Ohm applications. Semi-balanced for best interference immunity.

Digital-Cables

S/PDIF Coaxial AES/EBU

AES EBU 110 Ohm - professional standard

110 Ohm AES/EBU is a blanced interface with XLR connectors. The most common in professional use.

DAC-XLR AES/EBU

- Applikation example: CD to DAC



75 Ohm S/PDIF

110 Ohm AES/EBU

Item				Mechanical S	pecifi	cations								Star	ıdar	d Lei	ngths		
	Application	Connector < [Directi	on > Connector	Cable	Screen	Solder Tin	Connector	Cable	Colour				(1	1m =	3.28f	t)		
	Examples	From		To		Connection		Fixing	Clamping		1m	2m	4m	6m	8m	10m	12m	15m	W/0 *
Anco-RCA Coax	Digital 75 Ohm	RCA-6	<->	RCA-6	Anco	Unbalanced	Almit SR34	Expansion	Clamp	Ice Blue	Х	х	х		х		х	х	х
DAC-XLR AES/EBU	Dig. AES/EBU 110Ω	Swift XLR 3F light Au	->	Swift XLR 3M light Au	DAC	Balanced	Super	Bayonet	Screw	Ice B./Anthr.	х	х							х
Trico-BNC		BNC	<->	BNC			Sn 96.5%,	Bayonet	Crimp		Х	Х	х		х			х	х
Trico-RCA	Coaxial Digital	PPX RCA	<->	PPX RCA	Trico	Semi-	Ag 3%,	Expansion	Screw	Ice Blue	Х	Х	х	х	х	Х	х	х	х
Trico MP-RCA	75 Ohm	MP-8 Mono 3.(5m)m	<->	PPX RCA	IIICO	Balanced	Cu 0.5%	- / Exp.	Crimp/	ice blue	Х	х	х		х			х	х
Trico RCA-BNC		PPX RCA	<->	PPX RCA	Ī		Lead Free	Exp./Bayonet	Screw		х	х	х		х			х	х

X-ZAC Toslink*,

An exact mechanical fit is important in order to avoid divergence losses. Therefore X-ZAC is provided with a high precision metal connector.

The fibre optic is principally the same as ZAC, but the X-ZAC is machine polished in further 3 stages.

Available in 1m (3ft).

ZAC MinTos

Mini plug to TosLink

The same concept but fitted with Mini Toslink at one end and a Toslink at the other. Often used between Mini discs and CD players. Available in 1m (3ft), 2m (6ft), 4m (13ft).

ZAC Toslink*

Our most popular Toslink. Fibre optic, fitted with Toslinc at both ends. ZAC Toslink is available in 1m (3ft), 2m (6ft), 4m (13ft), 8m (26ft), 15m (49 ft).

ZAC Mini

Mini plug to mini plug

The same fiber optic but fitted with Mini plug 3.5mm at both ends. Often used between MP3 player and computer/amplifier. Available in 1m (3ft).









X-ZAC Toslink

ZAC Toslink

ZAC MinTos

ZAC Mini

Optical Cables

S/PDIF

ZAC Fibre Optic Interconnect

ZAC stands for Zero Attenuation Concept.

The innovative curving of the fibre core tip to get a zero divergence loss enables plastic fibre optic to be used, and achieve the same transmission quality as that of a glass fibre core in combination with the strength and flexibility of the plastic core.

Properties and advantages of the fibre optic cable are:

- Low weight
- Wide band width
- Interference immune
- No radiation
- Independent of voltage

*Toslink

TosLink is short for Toshiba Link. Optical variant of S/PDIF where light is used for signal transfer.

Item				Mechanical	Specit	ficatio	15				Standard Lengths									
	Application	Connector < D	irectio	on > Connector	Cable	Fibre	Lens	Connector	Cable	Colour	(1m = 3.28ft))					
	Examples	From		To		e	Polish	Fixing	Clamping		1m	2m	4m	6m	8m	10m	15m			
X-ZAC TosLink		Toslink, Metal	<->	TosLink, Metal			6-step	Bavonet	Molded		Х									
ZAC TosLink	Optic	Toslink	<->	TosLink	ZAC	Plastic		Dayonet	1	Ice Blue	Х	х	Х	х	х	х	х			
ZAC MinTos	Digital	Mini Plug 3.5mm	<->	TosLink			3-step	Bayonet / -	Bending		Х	Х	Х							
ZAC Mini		Mini Plug 3.5mm	<->	Mini Plug 3.5mm				-	Protection		х				П					

AV-2

2-Core Coax

Application examples: S-video.

Suitable connectors are SU-PRA SVHS-7 and/or SUPRA Scart plugs.

S-video = Y/C

AV-3

3-Core Coax

Application examples: Component video, A/V.

Suitable connectors are SUPRA Scart, RCA-3, BNC-3 and VGA plugs.

Component video = Y/Cb/Cr

AV-3

4-Core Coax

Application examples: RGB, Component video, A/V. Suitable connectors are SUPRA Scart, RCA-3, BNC-3 and VGA plugs.

AV-6.4

AV-6 comprises 6 coax, surrounded by a common overall foil screen, which further minimises RF break-through. The centre core is a screened 2-pair audio cable.

Application examples:

RGB/S-video/Composite Video/Component Video. Suitable connectors are SUPRA Scart, VGA, SVHS-7, BNC-3 and RCA-3.









AV Series Audio/Video Multi Core Coax 75 Ohm

The SUPRA AV cables are multi-core coaxes of individual 75 Ohm rated coax cores.

Each core has a braided screen of tin-plated OFC.

The SUPRA AV series is of very low capacitance owing to the PE foam insulation.

The construction is especially developed for Home Theatre use, and suits several applications with SUPRA VGA-11, Scart, RCA, S-VHS and BNC connectors.

The timing error is less than 2.2 ns, which enables accurate RGB transmission.

The AV-6.4 comprises a screened 2-pair audio cable as a centre core.

Applications:

- Home Theatre
- Video walls
- High resolution video projection
- Computer graphics workstations
- Studio tie lines

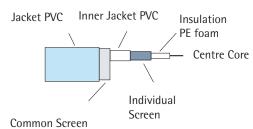
SUPRA AV-6.4 is an upgraded version of the 'Best Buy' awarded AV-6*.

It remains the same 6-core coax cable, unchanged except for the added 2-pair centre core for audio.

AV Multi Cable

Coaxial 75 Ohm

Construction of the AV Series



Item		Mechanical Specifications														Electrical Specifications						
	Colour	Application	No.	Cross Sec. Area	No.	Wire	Wire	Inner Shield	Coax	Outer Shield	Jacket	Ext. Size	Weight	Length/Bobbin	R	С	Imp. Z	Velo.				
		Examples	Coax	(mm²/AWG)	Wires	Material	Insulation	Coverage	Insulation	Coverage		(mm)	(g/m)	(m/ft)	(Ω/km)	(pF/m)	(Ω)	Factor				
AV-2		S-video or AV	2			Tin		Braid	Heat &	Al/Pet,100%	Heat &	Ø7.0	53	100 / 328								
AV-3	Ice Blue	Component / AV	3	0,20 / 24	١, ١	Plated	PE-Foam	120x0.10	Ageing	-	Ageing	Ø8.0	68	100 / 326	87.8	45	75	0.78c				
AV-4	ice blue	RGB or AV	4	0,20 / 24	'	OFC	FE-FUAIII	OFC Sn	Resistant	Al/Pet	Resistant	Ø9.5	105	75 / 246	07,0	45	/5	0.780				
AV-6.4		6 (+4)						>95%	PVC	Foil, 100%	PVC	Ø11.0	147	50m & 100m								

Damping: 1MHz/1.4 dB, (5m)Hz/3.1dB, (10m)Hz/4.4dB, 50MHz/9.8dB

Video Cables

Trico & Anco, Composite Video

Available in different combinations with Scart-RCA- and BNC connectors.

Trico and AnCo are used for these cables.

Shown as R.H. pictures.

Application examples:

Video/TV Game to TV/Projektor.

Aerial Cable

Anco

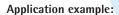
Anco is a silver plated cable for high quality antennae/aerial signals.

Available only with European PAL connectors. Male to female or female to male.

Suitable connectors is Acon M and Acon F.

The PAL system (Phase Alternating Line) is employed in most of Europe.

In USA the NTSC system (National Television System Committe) is used.



Antennae/aerial to TV/Digital receiver.

Composite* Comprehensive video signal



Trico and Anco are True 75 Ohm

Trico and Anco has a property that is the secret behind the sharp and clean picture: True 75 Ohm for low reflection loss, especially at longer runs. Trico and AnCo have double screening for less interfe-

All connectors are screened.

* Composite Video means that colour (chroma) and light intensity (luminance) are mixed in the same conductor. Due to this mix, the colour performance can not be as good as with other separating formats.



















Item					Mecha	anical	Specificati	ions				Standard Lengths										
	Connection	Application	Conn. < D	irectio	on > Conn.	Cable	Screen	Solder Tin	Connector	Cable	Colour				(1m :	= 3.2	8ft)		-			
	Configuration Examples		From		To		Connection		Fixing	Clamping		1m	2m	4m	6m	8m	12m	15m	W/0*			
1 RCA -> Scart		DVD/VHS,	RCA-6	->	Scart		Unbalanced		Exp./Friction Gr.	Screw/Squeeze		Х	Х	Х		Х		Х	Х			
Scart -> 1 RCA	Video 75 Ω/	Computer	Scart	^-	RCA-6			Almit	Friction Gr./Exp.	Squeeze/Screw		Х	Х	Х		Х		Х	х			
Anco-BNC Coax	CVBS/	TV,	BNC-6	\ <u>`</u>	BNC-6			SR34	Bayonet	Crimp		Х	Х	Х		Х	х	Х	Х			
Anco-RCA Coax	Composite Video	TV or	RCA-6	<->	RCA-6	Anco	Unbalanced	Super	Expansion	Screw/Squeeze	Ice Blue	Х	х	Х	λ_{\neg}	Х	Х	Х	Х			
Anco RCA-BNC Coax		Projector	RCA-6	<->	BNC-6			Lead Free	Exp./Bayonet	Screw/Crimp		Х	Х	Х		Х	х	Х	Х			
Anco-TV F-M	Aerial 75	TV/Radio	ACON-F	<->	ACON-M			Sn 96.5%,	Expansion	Screw/		Х	Х	Х		Х	х	Х	Х			
Anco-TV M-M	ACIIai 73	ivinaulo	ACON-M	<->	ACON-M			Ag 3%,	Lxparision	Clamp		Х	х	Х		Х	х	Х	Х			
Trico-BNC	Video 75 Ω/	DVD/VHS,	BNC-8	<->	BNC-8		Semi-	Cu 0.5%	Bayonet	Crimp		Х	Х	Х		Х		Х				
Trico-RCA	CVBS/	Computer,	PPX RCA	<->	PPX RCA	Trico	Balanced		Expansion	Screw		Х	Х	Х	Х	Х		Х	Х			
Trico RCA-BNC	Composite Video	TV, TV	PPX RCA	<->	BNC-8				Exp./Bayonet	Screw/Clamp		Х	Х	Х		Х		Х				

SUPRA 'SwissArmy' Cables

Different video standards, signals and interfaces makes it difficult to know which cable will be the right.

Sometimes it takes a somewhat odd cable to solve a connection problem. The following pages show a selection of different audio/video cables.

Should you not find what you are looking for, call the distributor or local dealer. We can customize for all connector combinations and lengths at a reasonable cost.



The S-Video cables are available in different combinations with Scart/S-video/ RCA connectors. All connectors are shielded Application example:



S-Video* Separated Video Signal



DVD/SVHS to TV/Projector.



Scart-SVHS

SVHS-SVHS

Scart-SVHS/2RCA



S-Video Multi Cable

AV-4 & AV-6.4

The S-Video cables are also available in combination with audio or composite video. in several variations with Scart/Svideo/RCA connectors. All connectors are shielded. Application example: DVD/VHS to TV/Projector.

The S-Video Format

S-Video is a better transfer system than composite, but needs two conductors with correct phase properties for synchronising the luminance and chroma.

In order to achieve this, the True 75 Ohm impedance is an important parameter of the cable.

* S-Video means a signal that is separated Y/C. Y (graY) is grey scale (luminance) and C stands

S-Video givs better colour quality and sharpness than composite video. Supports 480i and 576i formats.



Item					Mechanical	Specif	ications					Standard Lengths									
	Connection	Applica	Connector < I	Directio	on > Connector	Cable	Screen-	Solder Tin	Connector	Cable	Colour	(1m = 3.28ft)									
	Configuration	Examples	From		To		Connection		Fixing	Clamping		1m	2m	4m	6m	8m	10m	12m	15m	W/O*	
Svideo-Svideo		DVD,	SVHS-7	<->	SVHS-7		Separate	Almit SR34	-	Crimp		Х	Х	х	х	х	Х	х	Х	×	
Scart -> Svideo	Svideo or Y/C	Comput.,	Scart	->	SVHS-7	AV-2	Screened	Super	Spring Plate/-	Clamp/Crimp		Х	Х	х		х			Х	х	
Svideo -> Scart		TV,	SVHS-7	->	Scart		Conductors	Lead Free	-/Spring Plate	Crimp/Clamp	Ice Blue	Х	Х	х		х			Х	х	
1 RCA/Svideo	Svideo & Video	Tv or	SVHS-7/RCA-3	<->	SVHS-7/RCA-3	AV-3	+	Sn 96.5%,				Х	Х	х		х			Х	х	
2 RCA/Svideo	Svideo & AV	Projector	SVHS-7/RCA-3	<->	SVHS-7/RCA-3	AV-4	Common	Ag 3%,	-/Expansion	Crimp		Х	Х	х		х			Х	х	
4 RCA/Svideo	Comp./Video/Svideo		RCA-3/SVHS-7	<->	RCA-3/SVHS-7	AV-6.4	Screen	Cu 0.5%				Х	х	Х		х	х	х	х	Х	

Component Cables AV-3

The component cables are available in different combinations with RCA, BNC, Scart, VGA, and DVI connectors. All connectors are screened. **Application example:** DVD to TV/Projector.

Component

Se<mark>parated Analogue Video Signal</mark>



- Analogue Component means that colour chroma) and light intensity (luminance) is separated into three information parts, namely Y, R-Y and B-Y:
 - Y signal contains luminance- and synchronising information.
 - R Y signal is red minus luminance
 - B Y signal is blue minus luminance

Note: Component Video is not compatible with RGB.

The component connectors are usually markjed YPbPr. Sometimes they are wrongly marked Y/Cb/Cr (digital component), YUV or RGB.

Component Video is a high quality transfer technique, and can handle resolutions up to 1080p.



















Item		Mechanical Specifications													Standard Lengths								
	Connector	Application	Conn. <	Direct.	> Conn.	Cable	Solder Tin	Connector	Cable	Colour				(1	m =	3.28f	t)						
	Configuration	Examples	From		To			Fixing	Clamping		1m	2m	4m	6m	8m	10m	12m	15m	W/0*				
3 BNC - 3 BNC	Y/Pb/Pr		BNC-3	<->	BNC-3			Bayonet	Crimp		Х	х	Х		х			Х	Х				
3 RCA - 3 BNC	Component/		RCA-3	<->	BNC-3		Almit SR34	Expansion/Bayonet	Clamp/Crimp		Х	х	Х	Х	Х			Х	Х				
3 RCA - 3 RCA	AV	DVD/SAT	RCA-3	<->	RCA-3		Super	Expansion	Clamp		Х	х	Х	Х	Х	Х	Х	Х	Х				
DVI - 3 BNC		To	DVI-I	<->	BNC-3	AV-3	Lead Free	Screw/Bayonet	Clamp/Crimp	Ice Blue	Х	х	Х		х			Х	Х				
DVI - 3 RCA		TV or	DVI-I	<->	RCA-3		Sn 96.5%,	Screw/Expansion	Clamp		Х	х	Х		Х			х	Х				
Scart - 3 BNC Comp.	Y/Pb/Pr	Projector	Scart	<->	BNC-3]	Ag 3%,	Spring Plate/Bayonet	Clamp/Crimp		х	х	Х		Х			х	Х				
Scart - 3 RCA Comp.	Component		Scart	<->	RCA-3]	Cu 0.5%	Spring Plate/Expansion			х	х	Х		Х			х	Х				
VGA - 3 BNC			VGA-11	<->	BNC-3]		Screw/Bayonet	Clamp		х	х	Х		х			Х	х				
VGA - 3 RCA			VGA-11	<->	RCA-3			Screw/Expansion			Х	х	Х		Х	х	Х	Х	Х				

Component Cables, High End Anco

SUPRA component cables are available in different combinations with RCA and BNC. Anco is for high quality demand and/or long cable runs. The signal is separated into three individual coaxial cables of very low loss. (0.6/100m) All connectors are shielded.

Application example: DVD to TV/Projector.











Component Video Multi Cable

AV-4 & AV-6.4

SUPRA Component video cables are also available in combination with audio, composite or S-Video. There are many variations, with Scart/S-Video/RCA-connectors All connectors are shielded. Application example:

DVD/SVHS to TV/Projector.

N + 0	
Note: Component video	is not compatible with RGB.
•	•

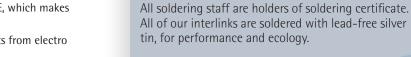
Item	Mechanical Specifications													Standard Lengths									
	Connector	Application	Connector <	onnector < Direction > Connector			Solder Tin	Connector	Cable	Colour	(1m = 3.28ft)												
	Configuration	Examples	From		То			Fixing	Clamping		1m	2m	4m	8m	10m	12m	15m	W/0*					
Anco-BNC Component	Y/Pb/Pr	DVD/SAT	3xBNC-6	<->	3xBNC-6		Almit SR34	Bayonet	Crimp		х	Х	х	х		х	х	Х					
Anco-RCA Component	Component/	TV or	3xRCA-6	<->	3xRCA-6	Anco	Super, Ag 3%,	Expansion	Screw	Ice	х	Х	х	х		х	х	х					
Anco RCA-BNC Comp.	AV	Projector	3xRCA-6	<->	3xBNC-6	1	Sn 96.5%,	Exp./Bayonet	Skuv/Crimp	Blue	х	Х	Х	Х		х	х	Х					
4 RCA/Svideo	Comp./Vid./Svideo		RCA-3/SVHS	-7 <->	RCA-3/SVHS-7	AV-6.4	Cu 0.5%	-/Expansion	Crimp		х	Х	Х	Х	х	х	х	х					

Scart Cable AV-series, High End

These are "specialized Scart Cables" using the high quality AV-series multi coax of true 75 Ohms and low losses, for best performance.

Available in many combinations with Scart, RCA, BNC and S-video. Check for type of signal and possible directionality, in the table.

- All video cores are of 75 Ohm coax type, individually screened.
- Audio cores are separately screened to avoid crosstalk interference.
- All conductors are insulated with PE, which makes low capacitance.
- A common aluminum shield protects from electro magnetic interference.



Scart Cable Full Scart

Owing to the larger size of the AV-cores the full Scart can not be made with this cable, but a smart compromise has been developed. We have focussed on the most important parts and given them a larger area whereas other have to be smaller, which made SUPRA Full Scart better than most other full Scarts.







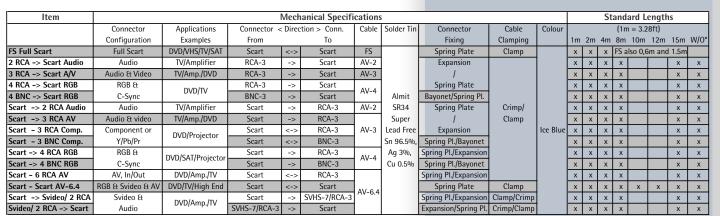








A selection of SUPRA Scart Cables.
Should you not find what you are looking for, call the SUPRA distributor or local dealer.
We can customize for all connector combinations and lengths at a reasonable cost.

















VGA Cables

AV series, High-End

These cables are specialised VGA cables of the high quality AV series, multi coax of true 75 Ohm and low loss for best performance. Available in many combinations with VGA, RCA, BNC, scart and DVI.

Check for type of signal and possible directionality, in the table.

- All video cores are 75 Ohm coax, individually screened
- The audio cores are separately screened to minimize cross interference.
- All cores are insulated with PE for low capacitance.
- A common aluminium screen protects from electromagnetic interference.



A selection of SUPRA VGA cables.

Should you not find what you are looking for, call the SUPRA distributor or local dealer.
We can customize for all connector combinations and lengths at a reasonable cost.

Item				Mecl	nanical Specif	ication	ıs						S	tan	dard	Len	gths		
	Connector	Application	Conn.	< Dire	ction > Conn.	Cable	Solder Tin	Connector	Cable	Colour				(1	m = 3	3.28ft	:)		
	Configuration	Examples	From		To			Fixing	Clamping		1m	2m	4m	6m	8m	10m	12m	15m	W/0*
VGA - 3 RCA	Component	DVD/Projector	VGA-11	<->	RCA-3	AV-3		Screw	Clamp		х	х	х		х			х	х
VGA - 4 RCA	RGB & C-Sync/VH-Sync	Comput./DVD	VGA-11	<->	RCA-3	AV-4	Almit	1	1		х	Х	х		х			Х	х
VGA - 5 RCA	RGB & V-Sync & H-Sync	Projector	VGA-11	\ <u>`</u>	RCA-3	AV-6.4	SR34	Expansion	Crimp		х	Х	х	Х	х			х	х
VGA - 3 BNC	Component	DVD/Projector	VGA-11	<->	BNC-3	AV-3	Super	Screw	Clamp	Ice	х	Х	х		х			х	х
VGA - 4 BNC	RGB & C-Sync/VH-Sync	Comput./DVD	VGA-11	<u>^</u>	BNC-3	AV-4	Lead Free	1	1	Blue	Х	Х	Х		х			х	х
VGA - 5 BNC	RGB & V-Sync	Projector	VGA-11	<->	BNC-3		Sn 96.5%,	Bayonet	Crimp		х	Х	х	Х	х			х	х
VGA - VGA	& H-Sync	Comput./DVD	VGA-11	<u>^</u>	VGA-11	AV-6.4	Ag 3%,	Screw			х	Х	Х		х	х	х	х	х
DVI - VGA	RGB C/H/V-Sync	DVD/Comput./	DVI-I	<->	VGA-11		Cu 0.5%	Screw	Clamp		х	Х	х		х			х	х
Scart -> VGA	RGB & C-Sync	Proj./Monitor	Scart	->	VGA-11	AV-4		Spring Pl./Screw			х	Х	х		х			х	х
VGA - 3 RCA(F)	Component	Adapter	VGA-11	<->	RCA-3 Female	AV-3		Screw/-	Clamp/Crimp						(250	em)			



DVI-3RCA & DVI-3BNC Cable

DVI for component video is used for DVD players with three RCA or three BNC output to projector/plasma with DVI-I input. Available in different standard lengths up to 15m. Fully shielded and rewireable connectors enables installation in conduits >20mm dia. Re-soldering necessary.

DVI-4RCA & DVI-4BNC Cable

For transfer of analogue RGB with composite synchronising from DVD or H/V synchronising from computer. Suitable for DVI-I/4RCA or 4BNC output to projector/plasma with DVI-I/4RCA or 4BNC input.

Available in different standard lengths up to 15m. Fully shielded and rewireable connectors enables installation in conduits >20mm dia. Re-soldering necessary.

DVI-5RCA & DVI-5BNC Cable

For transfer of analogue RGB with separate H- and V synchronising from computer. Suitable for computer with DVI-I output to projector with 5RCA or 5BNC inputs. Available in different standard lengths up to 15m. Fully shielded and rewireable connectors enables installation in conduits >20mm dia. Re-soldering necessary.

VGA-DVI Cable

For transfer of analogue RGB, suitable between DVD and monitor/projector with DV-I input.

Available in different standard lengths up to 15m.

Fully shielded and rewireable connectors enables installation in conduits >20mm dia. Re-soldering necessary.

Scart-DVI cable

For transfer of analogue RGB, suitable between DVD and monitor/projector with DV-I input.

Available in different standard lengths up to 15m. Fully shielded and rewireable connectors enables installation in conduits >20mm dia. Re-soldering necessary.

















			Examples From													
Item				Me	chanica	I Speci	fications					Sta	ndaı	rd Le	ength	IS
	Configuration	Application	Conn. <	<direc< th=""><th>t.> Conn.</th><th>Cable</th><th>Solder Tin</th><th>Connector</th><th>Cable</th><th>Colour</th><th></th><th>(</th><th>(1m =</th><th>= 3.2</th><th>8ft)</th><th></th></direc<>	t.> Conn.	Cable	Solder Tin	Connector	Cable	Colour		((1m =	= 3.2	8ft)	
		Examples	From		To		A	Fixing	Clamping		1m	2m	4m	8m	15m	W/0*
DVI <-> 3 RCA	Component,	DVD/Projector/	DVI-I	<->	RCA-3	AV-3		Screw/Expansion	Clamp		Х	Х	Х	Х	х	х
DVI <-> 3 BNC	Y/Pb/Pr	TV	DVI-I	<->	BNC-3	AV-3	Almit SR34	Screw/Bayonet	Clamp/Crimp		Х	Χ	Х	Х	Х	Х
DVI <-> 4 RCA	RGB +	Comput./DVD/	DVI-I	<->	RCA-3	AV-4	Super	Screw/Expansion	Clamp		Х	Х	Х	х	х	х
DVI <-> 4 BNC	C-Sync	TV/Projector	DVI-I	<->	BNC-3	AV-4	Sn 96.5%,	Screw/Bayonet	Clamp/Crimp	Ice Blue	Х	Χ	Х	Х	Х	Х
DVI <-> 5 RCA	RGB,	Comput./	DVI-I	<->	RCA-3		Ag 3%,	Screw/Expansion	Clamp		Х	Х	Х	Х	Х	Х
DVI <-> 5 BNC	H/V-Sync	Projector/Monitor	DVI-I	<->	BNC-3	AV-6.4	Cu 0.5%	Screw/Bayonet	Clamp/Crimp		Х	Х	Х	Х	х	Х
DVI <-> VGA	RGB C/H/V-Sync	DVD/Comput./	DVI-I	<->	VGA-11		Lead Free	Screw	Clamp		Х	Х	Х	Х	х	Х
Scart -> DVI	RGB & C-Sync	Projector/TV	Scart	->	DVI-I	AV-4		Spring Plate/Screw	Ciallip		Х	Х	Х	х	х	Х



















RCA/BNC Multi Cables AV-Series

These cables are made with the high quality AV-series, multi coax cables of True 75 Ohm.

- All video cores are of 75 0hm coax type, individually screened.
- Audio cores are separately screened to avoid cross-talk interference.
- All conductors are insulated with PE, which offers low capacitance.
- A common aluminum shield protects from electromagnetic interference.

A comprehensive assortment of different cables.

- Component video (Y/Pb/Pr)
- S-video (Y/C)
- RGB
- Audio/Video
- Composite video (CVBS)



Item			N	/lech	anical Specific	ations							Sta	anda	ard Lo	ength	15	
	Connector	Application	Connector < D	irectio	on > Connector	Cable	Solder Tin	Connector	Cable	Colour				(1m	= 3.2	8ft)		
	Configuration	Examples	From		To			Fixing	Clamping		1m	2m	4m	8m	10m	12m	15m	W/0*
4 RCA - 4 RCA	RGB/Audio/Video		RCA-3	<->	RCA-3	AV-4					Х	х	Х	Х			х	Х
5 RCA - 5 RCA	NGB/AUGIO/VIUCO	DVD/SAT,	RCA-3	<->	RCA-3	AV-6.4	Almit	Expansion	Clamp		х	х	Х	Х			х	х
6 RCA - 6 RCA	Audio/Video	Comput.,	RCA-3	<->	RCA-3	AV-0.4	SR34				Х	Х	Х	Х			Х	Х
4 BNC - 4 BNC		Amp. To	BNC-3	<->	BNC-3	AV-4	Super	Bavonet	Crimp	Ice Blue	х	Х	Х	Х			х	Х
5 BNC - 5 BNC	RGB/Audio/Video	TV,	BNC-3	<->	BNC-3	AV-6.4	Lead Free	bayonet	Crimp		Х	Х	Х	Х			Х	Х
5 RCA - 5 BNC		Projector	RCA-3	<->	BNC-3	AV-0.4	Sn 96.5%,	Exp./Bayonet	Clamp/Crimp		Х	Х	Х	Х			х	Х
1 RCA/Svideo	Svideo & Video	or	SVHS-7/RCA-3	<->	SVHS-7/RCA-3	AV-3	Ag 3%,				Х	Х	Х	Х			Х	Х
2 RCA/Svideo	Svideo & Audio/Video	monitor	SVHS-7/RCA-3	<->	SVHS-7/RCA-3	AV-4	Cu 0.5%	Expansion	Clamp		Х	Х	Х	Х			х	х
4 RCA/Svideo	Comp./Video/Svideo		RCA-3/SVHS-7	<->	RCA-3/SVHS-7	AV-6.4					х	х	Х	Х	х	Х	Х	х

^{*} W/O Cable = Customized lengths available.

BNC-3

24K gold plated BNC plug for crimping. Crimping tool: see below. Fits 3mm cable dia, e.g. the SUPRA AV-cables.

BNC-6 (Not in picture)

24K gold plated BNC plug for crimping, similar to BNC-3 but fits 6mm cable dia. e.g. SUPRA Anco.

BNC-8

BNC plug for soldering. 24K gold plating with Teflon insulation. Fits cable diameters of 7.0-8.5mm e.g. SUPRA Trico.

2 pcs/pack Bulk pack: 50 pcs

SCART

24K gold plated Scart connector with shielding housing of metal. Angled in a way that allows positioning of connectors in close proximity to each other. Fits cable dia of 8-12mm. Can be mounted in close proximity.

1 pc/pack

Bulk pack: 50 pcs

SVHS-7

24K gold plated S-Video connectors with shielding metal housing and Teflon insulation.

Fits cable diameters up to 7 mm.

2 pcs/pack Bulk pack: 50 pcs

MP-8 Mini Jack Plug Stereo

24K gold plated mini plug 3.5 mm

For large diameter cables up to 8 mm. Designed to fit also countersunk chassis connectors.

2 pcs/pack Bulk pack: 50 pcs

MP-8 Mini Jack Plug Mono

Similar to above, but mono.
Often used with Trico for digital audio from computer.

2 pcs/pack Bulk pack: 50 pcs

VGA-11

DB-15 connector with 24K gold-plated pins.

For cable dia up to 11 mm. Fits all AV-cables.

1 pc/pack Bulk pack: 50 pcs

Acon-F and Acon-M

Antennae/Aeriel connectors 75 Ohms. Gold plated with shielding metal housing. Fits the SUPRA Anco cable.

1 set Male & Female/pack Bulk pack: 50 pcs each











Line Connectors





AnCo AV-2 AV-3 AV-4 AV-6.4 Biline DAC Dual EFF-1 HF100 MB-01 MBS SubLink Trico

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Item						Mechanical Spec	ifications				
	Qty/	Connector	Male/	Pin	Insulation	Housing	Connector	Cable	Max Cable	Ext. Size	Colour
	pack		Female	Material			Fixing	Clamping	Dia. (mm)	WxHxL (mm)	ldent.
Acon M/F set		Aerial	Ma./Fe.				Spring Plate	Clamp	Ø6.2	Ø13x36	
BNC-3	2 st				PTFE	Shielded		Crimp	Ø3.2	Ø15x25	/-
BNC-6	2 31	BNC DB25/	Male		(Teflon)	Siliciaca	Bayonet	Crimp	Ø6.2	Ø15x25	
BNC-8			Female					Clamp	Ø8.0	Ø13x52	Blue
DB25-F	1 Pc	-,	Gold		Shielded	Screw	Screw/	Ø11.0	55x17x51		
DB25-M	110	D-sub 25	.,	Plated		Front Mounted	SCIEW	Clamp	011.0	55817851	White
MP-8 Mono	2 st	D-sub 25		Cu	Noryl	Shielded			Ø8.5	Ø13x52	vviiite
MP-8 Stereo	2 31	lack Plun	Male			Siliciaca	_		Ø8.5	Ø13x52	
Scart	1 Pc	Scart	IVIAIC			Shielded Fr. Mount.	_	Clamp	Ø11.0	48x20x60	-
SVHS-7	2 st	S-video			PTFE	Shielded			Ø7.0	Ø13x42	Yellow
VGA-11	1 Pc	DB15 (HD)			(Teflon)	Shielded Fr. Mount.	Screw		Ø11.0	31x44x15	-

Swift XLR Au Set

Patented

XLR connector with 24K gold plated pins. Fully shielded for noise rejection. Easy assembly.

No loseable screws. Nothing to slip on the cable before soldering.

Set of male/female per pack
Bulk pack: 10 pcs male or female
(no set)



Gold plated XLR pins (SUPRA Swift)

RCA-3

24K gold plated RCA (Phono) plug with Teflon insulation and metal housing. Fits 3 mm cable diameter, e.g. the SUPRA AV-6 core. Provided with different Colour rings.

1 pair/pack Bulk pack: 50 pairs

RCA-3 RGB Set

The same plugs as above RCA-3 in set of 3 pcs with Red, Green and Blue marking rings.

3 pcs/pack Bulk pack: 50 pcs/colour

RCA-6

24K gold plated RCA plug with squeeze clamping, only for cable diameters of 5-6 mm.

1 pair/pack Bulk pack: 50 pairs

PPRE

24K gold plated RCA plugs, only for cable diameters of 8mm. Bent design. Shielding metal housing. Can be mounted in close proximity.

1 pair/pack Bulk pack: 50 pairs

PPSL

RCA plug in 24K gold plating with squeeze clamping of both front part and cable aperture. Shielding housing, front mounted. Teflon insulation. Lathe turned in one piece. Max cable dia 7.7 mm.

1 pair/pack Bulk pack: 50 pairs

PPX

Similar design as the above, without squeeze clampings. Max cable dia 8.5 mm.

1 pair/pack Bulk pack: 50 pairs



Rewireable DVI Connectors

Enables installation in conduits.Fully shielded by the Aluminium housing.

DVI-I 24+5 Connector

A combined digital and analogue connector. We will be using it mainly for analogue applications with our cables AV-3, AV-4 and AV-6.4, for Component or RGB transfer.

DVI-D 18+1 Connector

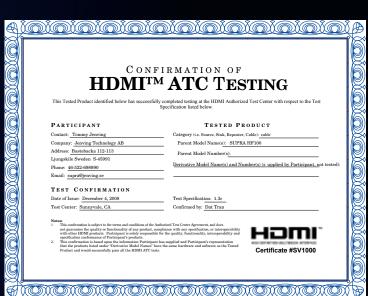
A purely digital version that preferably is being used with our DVI/HDMI Cable HF10

1 pc/pack Bulk pack: 50 pcs



Item					Mechanical	Specificat	tions			
	Qty/	Connector	Stift	Insulation	Housing	Connector	Cable	Max Cable	Ext. Size	Colour
	Pack		Material			Fixing	Clamping	Dia. (mm)	ØxL (mm)	ldent.
PPSL					Shielded	Chuck	Chuck	Ø7.7	Ø13x53	Red/White
PPX	1 Pair				Front Mounted		Screw	Ø8.5	Ø13x43	Red/White
RCA-3 A/V		RCA Male	24K	PTFE				Ø3.2		Red/White
RCA-3 RGB	3 Pcs	Straight	Gold	(Teflon)	Shielded	Expansion	Crimp	W3.2	Ø12x50	Red/Green/Blue
RCA-6	1 Pair		Plated					Ø6.5		White
PPRB	I Fall	RCA Male, Bent	Cu		Shielded		Quick Lock	Ø8.5	13,5x46	Red/White
Swift XLR Au Set	1 set Ma/Fe	XLR Female/Male		Noryl	Front Mounted	Quick Lock	Screw	Ø7.4	Ø19x83 / Ø19x77	Red/Black
DVI-I	1 Pc	DVI-I 24+5 Male		SPS	Aluminium,	Screw	Clamp	Ø11	48x39x15	Anthracite
DVI-D	170	DVI-D 18+1 Male		353	Screened	SCIEW	Ciamp	ווש	40333313	Anunacite







POWER

CABLES / MAINSBLOCK / CONNECORS

SPEAKER

INTERCONNECT

CABLES / INTERCONNECTS / CONNECTORS

HDMI & DVI

CABLES / INTERCONNECTS / CONNECTORS

INSTALLATION

CABLES / CONNECTORS

10,200,000,000 bits/sec

Full HD Digital Video and Audio in one tiny cable...

How is that possible?

With the HDMI V1.3 standard, specifying full HD with billions of colours and full 24bit 192kHz 5:1 audio, you will need about 10.2 Gb/s streaming capacity. A lot of bits! As you can imagine, no ordinary cable will do the job. SUPRA HF100 is tested and approved in compliance with the latest test provisions v.1.3c by HDMI's Accredited Testing Center in the USA. A secure quality guarantee of our HDMI cables.



ATC Approved HDMI v1.3c

The bandwidth in the HF100 (used in all of our HDMI/DVI cables) is 600MHz, almost twice the spec of HDMI V1.3 (340MHz). There are some interesting cables out there claiming to do the job but only a few are actually approved for it.

SUPRA Hdmi is a safe choice.

Colour Flicker and Colour Cast?

SUPRA's HDMI cable can transfer the finest details from your DVD to TV. If you use a cable of poor quality, it causes colour flicker and colour cast and sometimes no picture at all. Something to consider.



HIGH DEFINITION MULTIMEDIA INTERFACE

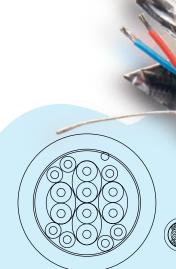
HDMI stands for 'High Definition Multimedia Interface'

JENVING Technology is an HDMI licensed cable manufacturer.

You will see all licensed manufacturers listed on www.hdmi.org

SUPRA HF100

SUPRA HF100 is designed for longer cable runs and higher resolution for hardware with HDMI V1.3 and DVI interface. The cores in SUPRA HF100 are insulated with Gas Blown Polypropylene, which offers low capacitance and high velocity factor. The digital pair is impedance stable over the entire frequency range, up to 600 MHz, (Compare HDMI V1.3, 340Mhz). SUPRA HF100 is double screened.





HF100

digital





New! SUPRA HDMI Metangle Bent Type

SUPRA DVI

Want to hide the cables in the wall?

SUPRA's rewireable HDMI och DVI connectors enable installation in conduit >20mm dia.

Г	ltem						N	/lechanica	al Specification	ons						Elec	tr. Spe	cificati	ons
Г		Colour	Applikation	Cable	Data Link	Cross Area	Wire	Ledar-	Inner Screen	Comm.	Outer Screen	Jacket	Ext. Size	Weight	Length/Bobbin	R	С	Imp. Z	Velo.
			Examples		(TMDS)	(mm²/AWG)	Material	Insulation	Coverage	Conductors	täckningsgrad		(mm)	(g/m)	(m / ft)	(Ω/km)	(pF/m)	(Ω)	Factor
Н	IF100	Ice Blue	HDMI/	Single	4x Screened	0.26 / 23	Solid	PE Foam	Alu. Foil	7x0.22	Alu/PET	H.A.R.	Ø9.5	106	75 / 264	75	48	100	0.78c
1"	100	icc bluc	DVI,1080p	Link	TP, CAT7	0,20 / 23	6 / 23 Solid F	I L I Uaili	& Braid,100%	PE	Foil,100%	PVC	9 3.3	100	300 / 984	75	40	100	0.760



SUPRA HDMI/DVI cables are made with SUPRA HF100 which is an impedance stable cable, suitable for longer installation runs.

The cable supports resolution for HDTV 1080p up tol 15m. HF100 is also certified for the HDMI standard V1.3.

SUPRA HDMI

SUPRA HDMI-HDMI is a high quality 'single link' HDMI cable, designed for digital video and audio in longer runs. The cable is terminated with over moulded HDMI-Connector at both ends or as an HDMI to DVI-D cable. It is a 'single link' cable. The gold plating on the pins is 0.8 micro metre thick for long life reliable connection. Both DVI and HDMI are suitable for Video transfer. DVI is only for Video signal whereas HDMI transfers both Audio and Video.

SUPRA DVI

DVI stands for 'Digital Visual Interface'.

SUPRA DVI-DVI is designed for video transfer up to 20 m. Maximum resolution WUXGA 1920x1200. The cable is provided with SUPRA's quality connectors DVI-D.

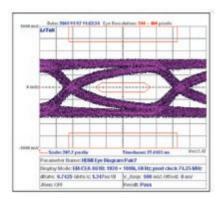
The connector is fully shielded by means of its aluminium housing. It is rewireable for after-termination at installation in conduits. The gold plating of the pins is 0.8 micro metre thick, for long life, reliable connection.



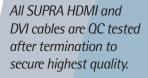
SUPRA HDMI The First Over12 Metre

When our HDMI cable of 10 m was approved by HDMI's accredited testing centre (ATC), we were only one of two companies in the world with official certificate for this length.

Later, for 12m approved HDMI cable, we were the first in the world (as far as we know). We can give you a better chance to arrange your home cinema layout free from being limited by short cables.



Approved eye pattern diagram for SUPRA HDMI 12 m.









Item					Mechai	nical Speci	ficatio	ns								9	Stanc	lard	Lengt	hs				\neg
	Connection	Application	Conn. < D	irectio	on > Conn.	Max	Cable	Solder Tin	Connector	Cable	Colour						(1)	m = 3	.28ft)					
	Config.	Examples	From		To	Resolution			Fixing	Clamping		0,5m	1m	1,5m	2m 3	m 4n	n 5m	6m	8m	10m	12m	15m	20m	W/0*
HDMI - HDMI	Single	DVD/Projector/TV	HDMI (A)	<->	HDMI (A)	HDMI v1.3,		Almit SR-34 Super	-	Mold		х	х	х	х	x x	X	х	х	х	х	х		
HDMI <-> DVI	Link	DVD/Comput./	HDMI (A)	<->	DVI-D 18+1	1080p	HF100	Sn 96.5% ,Ag 3%,	-/Screw	Mold/Clamp	Ice Blue		х		х	х х	х	х	х	х	х	х		
DVI - DVI		Projector/TV	DVI-D 18+1	<->	DVI-D 18+1	1920x1200		Cu 0.5%, Lead Freett	Screw	Clamp			х		х	х х	х	х	х	х	х	х	х	х
																	* 1	W/0 (Cable =	Custo	mized	length	is avai	lable.





Rewireable SUPRA DVI Connectors

Makes installation in conduits possible. Fully screened with metal housing.

A combined digital and analogue connector We are using it mainly for analogue applications with our cables SUPRA AV-3, AV-4 and AV-6.4 for Component or RGB transfer.

HDMI/DVI

DVI-D 18+1 Connector

A purely digital version that is preferably used with our DVI/HDMI Cable HF100.



NEW!



Adapters

All connection surfaces are 24K gold plated. We do not recommend adapters for cables longer than 8m. For these applications we suggest our HDMI-DVI cable.



Adapter for DVI to HDMI DVI female to HDMI male.

Adapter for HDMI tol DVI HDMI female to DVI male.



Bent SUPRA HDMI Connector

Angled HDMI for less strain by heavy cables and easier fitting for wall TV/DVD/Reciever etc. The housing is detachable from the soldered cable. The connector body is pre-moulded to protect the termination and make installation possible in conduits. (>20mm). The housing is in metal for optimal shielding.

Should you prefer to put a straight housing on after installation, it is available, too.

	ltem						Mech	anical Specif	ications				
ı		Qty/	Connector < Signal	riktnir	ng > Conr	ector	Pin	Connectorhus	Connector	Cable	Max Cable	Ext. Size	Colour
		pack	From		То		Material		Fixing	Clamping	Dia. (mm)	LxBxH (mm)	
	DVI-I Plug		DVI-I 24	1+5 M	lale		24K	Aluminium,	Screw	Clamp	Ø11	48x39x15	
ı	DVI-D Plug	1 Pc	DVI-D 1	1ale		Gold	Screened	SCIEW	Clamp	ווש	40333313	Anthracite	
	DVI-HDMI Adapter	TTC	DVI-D 24+1 Female	->	HDMI N	ale	Plated	PVC,	Screw/-			51x40x13	Grey
	HDMI-DVI Adapter		HDMI Female	-> [DVI-I 24+1	Male	OFC	Screened	-/Screw	1	ı	41x40x15	

Cable accessories



Item			Mecha	nical S	pecification	is		
	Pict.	Qty/	Application	Colour	Fit Dia.	Inner Size	Ext. Size	Temp. Range
	Ref.	Pack	Examples		(mm)	(mm)	(mm)	(°C)
Bending Protection 7	K	100 st	Bending Protection Scart/AV-2		Ø5-Ø7.0	Ø7.2	Ø8.5	
Rubber Sleeve 5	J		Bending Protection		Ø5.0-Ø8.0	Ø5.0	Ø6.8	-30 to +130
Rubber Sleeve 7.5	ı	100 st	AV Series or	Black	Ø7.5-Ø13	Ø7.5	Ø9.2x30	-30 (0 +130
Rubber Sleeve 10	Н		Fixing Nylon Braid	DIACK	Ø10-Ø16	Ø10	Ø12x35	
Termination Trousers	G	100 st	Y-Joint Protection		Ø7.5-Ø9.0	Ø8.5	Ø9.5	-30 to +70
Termination Trousers set	U	2 st	for BiLine		W7.3-W3.0	90.5	Ø5.5	-30 t0 +70
Heat Shrink Hose 10	F	75 m	Fixing	White	Ø5-Ø10	Ø10 (Ø5)	Ø13.5	
Heat Shrink Hose 12	E		of	Black	Ø6.4-Ø12.5	Ø12.7 (Ø6.4)	Ø14	-55 to +135
Heat Shrink Hose 19	D	100 m	Nylon Braid	DIACK	Ø9.5-Ø19.0	Ø19.1 (Ø9.5)	Ø20.5	
Nylon Braid 8	С	100 111	Fit Line Cable	White	Ø5-Ø8	Ø8	Ø9	
Nylon Braid 10	В		Bunching of Bi-	Black	Ø7-Ø15	Ø10	Ø11	
Nylon Braid 15	Α	50 m	Wired Speaker Cable	Diack	Ø10-Ø21	Ø15	Ø16	-70 to +125
Nylon Braid 8 kit	C+F	5 m	Fit Line Cable	White	Ø5-Ø8	Ø8	Ø9	-/0 (0 +125
Nylon Braid 10 kit	B+E	10 m	Bunching of Bi-	Black	Ø7-Ø15	Ø10	Ø11	
Nylon Braid 15 kit	A+D	10 111	Wired Speaker Cable	DIACK	Ø10-Ø21	Ø15	Ø16	

POWER

SPEAKER

INSTALLATION

CABLES / CONNECTORS

MB Multi Series

- for Fixed Installations

The conductors are of the same design as of the MBS microphone cable but the jacketing is thinner and the shielding is of polyester based aluminium to better suit installation applications.

MBS Microphone Cable

- for Stage and Studio

A non-compromise design, both mechanically and electrically. Negligible microphony, high noise rejection, low capacitance, high flexibility, high bending strength. The best mic and instrument

Fire Retardant

- Halogen Free Cable

Perfect for installation in official premises. Most of our cables can be made in Fire Retardant Halogen Free material. The Page shows only those cables in our ordinary production.



MB-01 Installation Mic/Line Cable **Balanced**

1-pair, screened.

Application example: Fixed installation, balanced connection.



MB-02 Installation Mic/Line Cable **Balanced**

2-pair cable, similar to MB-01, with individual pair screening and pair jacketing.

Application example: Fixed installation, balanced connection.





MB-04 Installation Mic/Line Cable **Balanced**

4-pair cable, similar to MB-02 with individual pair screening and pair jacketing.

Application example: Fixed installation, balanced connection.





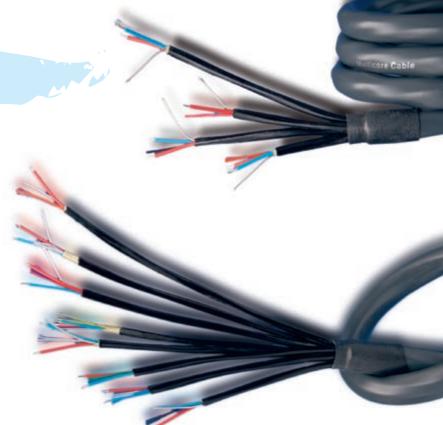
MB-08 Installation Mic/Line Cable **Balanced**

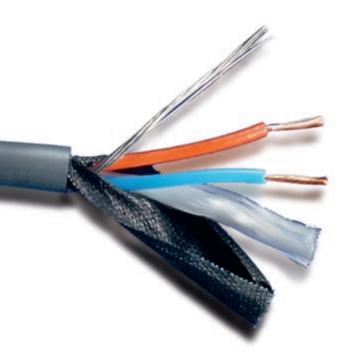
8-pair cable, similar to MB-04 with individual pair screening and pair jacketing.

Application example: Fixed installation, balanced connection.

Ε	- 1		
ا ت ا	6	7	8
ellow/	Green	Blue	White
e for ea	asy scre	en con	nection
			for easy screen con

Par		1	2	3	4	5	Ь	/	ð												
Yarn-	Colour	Black	Beige	Red	Orange	Yellow	Green	Blue V	Vhite												
Screer	l	Alumin	ium f	oil with	drain w	ire for e	easy scree	en conne	ction												
		-																			
Item										Mechanic	cal Specifica	tions								Elec.	Spec.
	No.	Applica	tion	Cross Are	a No	o. Of	Wire Dia.	Wire	Insul-	No. Of	Tensile Rein-	Screen	Pair	Jacket	Temp	Ext. Size	Weight	Length/		R	С
	Pairs	Examp	les (mm²/AW	G) W	lires	(mm)	Material	ation	Conductors	forcement		Jacket		omr. (°C)	(mm)	(g/m)	Bobbin		(Ω/km)	(pF/m)
MB-0	1 1	Analog	jue		19	Pcs		Tin			-			Heat &		Ø4.8	32	300			
MB-02	2 2	Audi	o	0.24 / 23	,	1	0,127	Plated	PE	2 +	Polyester/	Aluminium/	PE	Ageing	-20 to	Ø7.0	42	200	Anthracite	72	52
MB-04	4	Mic/Li	ne	0.24 / 23	Cond	luctors	0,127	OFC	''E	biConductors	Silk	PET	I.E	Resistant	+ 90	Ø8.0	72	100		12	32
MB-08	8	Installa	tion								Yarn			PVC		Ø10.8	130	100			





MBS / SWIFT XLR



MBS Microphone Cable, Balanced

A non-compromise design, both mechanically and electrically. Negligable microphony, high noise rejection, low capacitance, high flexibility, high bending strength. The best microphone and instrument cable.

Application examples: Microphone, guitar.

MBS Microphone Cable is based on SUPRA's unique Nylon-screen concept.

The advantages of SUPRA Nylon-screened cables over ordinary braided cables are:

• Tensile Strength

The tensile strength is 500N/50mm.

• Bending Fatique

In accordance with a military flex test, a cable must pass 30,000 bending cycles without damage. After 90,000 bending cycles the test of the Nylon screened SUPRA MBS was concluded without any damage to the cable.

• Environmental Immunity

Air humidity does not influence the cable's electrical properties.

Microphony

The softness of the Nylon screen in combination with other design parameters makes for a quiet cable, free from microphonics.



Swift 3F XLR Light and Swift 3M XLR Light 3-pole Female and Male.

Patented by Tommy Jenving.

Also available with gold plated pins, in set, on page 41.

Swift XLR Connectors

The patented SUPRA Swift has several advantages over other XLR connectors:

- Totally shielded.
- No loseable screws. Only one retained screw.
- Nothing to slip onto to the cable before soldering.
- Strain relief: The screw serves also as a clamp and since it is placed at a considerable distance from the aperture there will be no bending forces on the cable at the clamping point.

Tips and Tricks:

You can easily test the microphony by pluging the cable into the mixer with the other end of the cable left open, without anything connected. Turn up the volume and listen to how sensitive the cable is when you touch it, tap it and move it, or slap it against a hard floor, as occurs with mic and guitar cables.

Item		Mechanical Specifications									Electr. Spec.		ec.					
	No.	Application	Cross Area	No. Of	No. Of	Wire Dia.	Insul-	Screen	Tensile Rein-	Jacket	Ext. Size	Temp.	Colour	Weight	Length/Bobbin	R	С	Velo.
	Pairs	Examples	(mm²/AWG)	Conductors	Wires	(mm)	ation		forcement		(mm)	Range (°C)		(g/m)	(m / ft)	(Ω/km)	(pF/m)	Factor
MBS	1	Mic./line	0.24 / 23	2 +	19	0,127	PE	Semi-Cond.	Polyester	H.A.R	Ø5.5	-20 to	Anthracite	34	150 / 492	70	F2	0.66c
MBC	1 '	Flex./Install.	0.24 / 23	biConductors	19	Sn OFC	rE	Nylon	Yarn	PVC	ພວ.ວ	+90	Anunracite	34	150 / 492	12	52	0.666

	_											
ltem						Mechanica	l Specifica	tions				
	Qty/	Connector	Pin	Insulation	Housing	Wire	Connector	Cable	Max Cable	Ext. Size	Mounting	Colour
	pack		Material			Connection	Fixing	Clamping	Dia. (mm)	WxHxL (mm)	Hole (mm)	ldent.
XLR-C3F		XLR Chassis Female			Shielded					27x37x31	Ø23.5	
XLR-C3M		XLR Chassis Male	Silver-		Smeided			_	_	22x37x21	Ø19.0	_
Swift XLR 3M Light	1 Pc	XLR Male	Plated Cu	Norvl		Solder	Quick Lock			Ø19x70		Red/Black
Swift XLR 3F Light	110	XLR Female		INOTYI	Shielded	Joinei		Screw	Ø7.7	Ø19x75		Extra
Swift XLR 3M Light Au		XLR Male	Gold		Front			Screw	W1.1	Ø19x70	_	Colour Rings
Swift XLR 3F Light Au		XLR Female	Plated Cu		Mounted					Ø19x75		Available

Sometimes you need a fire retardant and Halogen free cable for installation in official premises.

The products below comply with the E30 standard. Insulated with ECCOH 5995 material.

ECCOH means:

- Halogen Free
- Low Smoke
- Low emission of poisonous gas in a fire

HF 100/H

Fire retardant, halogen free HF100, other properties remain same as the original HF100 .

DVI-DVI HF 100/H

A Cable made with HF100/H and with DVI connectors in aluminium, fully shielded. The connectors are detachable, for installation in conduits.

Classic 1.6/H Halogen Free

2x1.6 mm²

Similar to Classic 1.6 but with fire retardant ECCOH-insulation. It is somewhat stiffer and has a lower surface friction which make it easier to install in conduits.

Classic 2.5/H Halogen Free

2x2.5 mm²

Similar to Classic 2.5 but with fire retadant ECCOH-insulation. It is somewhat stiffer and has a lower surface friction which make it easier to install in conduits.





Fire Retardant Halogen Free

Item					Mecha	nical Spec	ifications				Electr. Spec.	
	Colour	Cross Area	No. Of	No. Of	Wire Dia.	Wire	Insulation	Ext. Size	Weight	Length/Bobbin	R	L
		(mm²/AWG)	Conductors	Wires	(mm)	Material		(mm)	(g/m)	(m / ft)	(Ω/km)	(μH/m)
Classic 1.6/H		1.6 / 15	,	204	0.10	Tin	Halogen Free &	3.1x6.2	44	300 / 984	10.5	0.40
Classic 2.5/H	ice blue	2.5 / 13		320	0.10	Plated OFC	Flame Retardant E30	3.6x7.3	65	200 / 656	6.8	0.45

		_																
Item		Mechanical Specifications											Electr. Specifications					
4	Colour	Application	Cable	Data Link	Cross Area	Wire	Wire	Inner Screen	Comm.	Outer Screen	Jacket	Ext. Size	Weight	Length/Bobbin	R	С	Imp. Z	Velo.
		Examples		(TMDS)	(mm²/AWG)	Material	Insulation	Coverage	Conductors	Coverage		(mm)	(g/m)	(m / ft)	(Ω/km)	(pF/m)	(Ω)	Factor
HF100/H	Jac Blue	HDMI/	Single	4x Screened	0,26 / 23	Solid	PE Foam	Alu. Foil	7x0.22	Alu/PET	H-Free	Ø9.5	106	75 / 264	75	40	100	0.78c
пг тоо/п	ice blue	DVI,1080p	Link	TP, CAT7	0,26 / 23	OFC	re roam	& Braid,100%	PE	Foil,100%	Flame.	พร.5	106	300 / 984	/5	40	100	0.760

Attenuation: 1MHz/1.9 dB, 10MHz/5.4dB, 100MHz/17.4dB, 600MHz/44.6dB

Item		Mechanical Specifications										
	Connection	Application	Conn. < Direction > Conn.			Max	Cable	Connector	Cable	Colour		
	Configuration	Examples	From		To	Resolution		Fixing	Clamping			
DVI - DVI/H	Single-link	Multimedia	DVI-D 18+1	<->	DVI-D 18+1	1920x1200	HF100/H	Screw	Clamp	Ice Blue		





Directionality Assurance

All SUPRA cables are constructed with attention to consistent and equal 'direction' in all the conductors. Simplistic electronics theory says there is no 'directionality' in conductors, but assumes conductors are perfectly isomorphic.

It also ignores the inherently directional nature of signal and energy flow. Yet electricity could not be sold without 'energy flow directionality'.

In reality, practical conductors are drawn many times – not cast. This creates highly elongated crystal structures. This in turn creates a physical (mechanical) directional feature or 'axial polarity'. Annealing and also 'burning-in' processes can reduce the 'strength' of the 'drawing imprint', but only to a degree.

All conductors in SUPRA cables are consistently arranged to point 'forwards, in the direction (left to right) implied by the legend (text) printed on the cable jacket. Directional consistency is ensured in two ways. First, direction of the conductors to be used in each cable is known from the spooled direction of the conductors received from the copper wire factory. That is a reliable method because an efficient manufacturing process is consistent and omits random re-spooling steps.

Forward Thinking Technology

Second, the 'directionality' of conductors is now able to be measured, and SUPRA cables are the first in the world to benefit from a spectral technique developed by audio consultant Ben Duncan in conjunction with Jenving Technology AB. This employs some special test conditions which better approximate audio equipment's real-world usage than standard, pure signal sources. Test results show typical increases in harmonic (noise) levels 0.5dB when cables are connected so the conductors' drawn direction opposes the signal flow direction. In real use the noise difference, which is some dB below the main signal, could be much greater. From this, a reduction in such noise

Connector pin out information

	S-video (Y/C)								
Pin	Function	Pin	Function						
1	Ground Luminance (Y)	3	Luminance (Y)						
2	Ground Chrominance (C)	4	Chrominance (C)						

	DB-15	HD (V	'GA)
Pin	Function	Pin	Function
1	Red +	9	
2	Green +	10	Sync Ground
3	Blue +	11	
4		12	
5		13	H-Sync/C-Sync
6	Red Ground	14	V-Sync
7	Green Ground	15	
8	Blue Ground	Chassi	Screen

	DB-25 (D-sub)									
Pin	Function	Pin	Function							
1	Left Front +	14	Left Front -							
2	Center +	15	Center -							
3	Right Front +	16	Right Front -							
4	Sub Woofer +	17	Sub Woofer -							
5	Left Rear +	18	Left Rear -							
6 Right Rear + 19 Right Rear -										
	Ground chassis - Ground chassis									

		S	cart
Pin	Function	Pin	Function
1	Audio Out Right	12	Data 1
2	Audio IN Right	13	Red Ground
3	Audio Out Left	14	Data Ground
4	Audio Ground	15	Red RGB, C vid Y/C
5	Blue Ground	16	RGB Status
6	Audio IN Left	17	Video Ground (CVBS)
7	Blue RGB	18	RGB Status Ground
8	CVBS Status	19	Video (CVBS) Out, Y when Y/C
9	Green Ground	20	Video (CVBS) IN, Y when Y/C
10	Data 2	21	Ground (Screen)
11	Green RGB		

	XLR							
Pin	Function	Pin	Function					
1	Ground/Screen	3	Signal Ground (cold)					
2	Signal (hot)							

	D	VI-I 2	1+5
Pin	Signal	Pin	Signal
1	D2-	16	Hot Plug Detect
2	D2	17	D0-
3	Screen	18	D0
4	D4-	19	Screen
5	D4	20	D5-
6	DDC SCL	21	D5
7	DDC SDA	22	Screen
8	V-Sync	23	CLK
9	D1-	24	CLK-
10	D1	C1	Red
11	Shield	C2	Green
12	D3-	C3	Blue
13	D3	C4	H-Sync
14	+5V	C5	Ground
15	Ground	Chassis	Screen/Ground

	DVI-D 18+1										
	ים		8+1								
Pin	Signal	Pin	Signal								
1	D2-	16	Hot Plug Detect								
2	D2	17	D0-								
3	Screen	18	D0								
4		19	Screen								
5		20									
6	DDC SCL	21									
7	DDC SDA	22	Screen								
8		23	CLK								
9	D1-	24	CLK-								
10	D1										
11	Screen										
12											
13											
14	+5V										
15	Ground	Chassi	Screen/Ground								

Soldering

For those who prefer to make their own cable sets and for carrying out servicing, we have gathered the following configuration tables. Please be aware of the importance of the soldering quality. All SUPRA pre-made cables are soldered with lead-free silver-tin with copper solder and non-corrosive flux, available as *Multicore TSC-96*, which we recommend.

The galvanic potential of silver is closer to copper than is lead to copper and thus the galvanic potential will be minimised.

Poor solderings is mostly due to either too high or too low a temperature.

Flux is needed to get through the oxide and avoid a dry joint, without overheating.

A dry joint might work very well for a period of time but as the oxide grows between the tin and the object, there will eventually be a poor connection. In the worst case, the conductors will loosen and create a short circuit.

All SUPRA connectors are insulated with Teflon to withstand the correct soldering temperatures (300° - 400°C).

For these reasons we always recommend leaving the soldering of interlinks to a professional workshop.

All of our soldering team are holders of soldering certification to Military Quality Standards.

Balanced and Semi-Balanced Cables

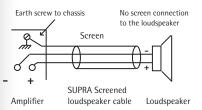
Semi-balanced connection with RCA



Balanced connection with XLR



Connection of screened loudspeaker cables



The screen is to be connected to the amplifier chassis or any other ground point of the amplifier. No connection at the loudspeaker end.

Conductor Dimensions in AWG to Metric

AWG	Dia.	Area	AWG	Dia.	Area	AWG	Dia.	Area
(No.)	(mm)	(mm²)	(No.)	(mm)	(mm²)	(No.)	(mm)	(mm²)
6/0	14,73	170,3	10	2,59	5,27	25	0,455	0,163
5/0	13,12	135,1	11	2,3	4,15	26	0,405	0,128
4/0	11,68	107,2	12	2,05	3,31	27	0,361	0,102
3/0	10,4	85	13	1,83	2,63	28	0,321	0,0804
2/0	9,27	67,5	14	1,63	2,08	29	0,286	0,0646
0	8,25	53,4	15	1,45	1,65	30	0,255	0,0503
1	7,35	42,4	16	1,29	1,31	31	0,227	0,04
2	6,54	33,6	17	1,15	1,04	32	0,202	0,032
3	5,83	26,7	18	1,024	0,823	33	0,18	0,252
4	5,19	21,2	19	0,912	0,653	34	0,16	0,02
5	4,62	16,8	20	0,812	0,519	35	0,143	0,0161
6	4,11	13,3	21	0,723	0,412	36	0,127	0,0123
7	3,67	10,6	22	0,644	0,325	37	0,113	0,01
8	3,26	8,35	23	0,573	0,259	38	0,101	0,00795
9	2,91	6,62	24	0,511	0,205	39	0,0897	0,00632

Anglo/American vs. Metric

Formulas

Characteristic Impedance (Simplified Formula)

 $Z = \sqrt{L/C}$ where L = inductance and C = capacitance

Velocity Factor (Simplified Formula)

 $v = \sqrt{1/K}$ where K = dielectricity of the insulation

Effective Skin Depth

 $\delta = 1/\sqrt{\pi \; \mu_{_{\! f}} \; \mu_{_{\! 0}} \; \sigma \; f} \quad \text{where} \quad \sigma = \text{conductivity} = 1/\text{resistivity}$ f = frequency

i = irequericy

 $\mu_{\rm r}$ = permeability of the conductor

 μ_0 = permeability of air

Conductor Resistance

 $R = L \times \rho / A$ where L = length in m

 ρ = resistivity

A = cross section area in mm²

Material Constants

Material	Dielectricity	Permability	Resistivity	
	(K)	(μ _r)	$(\Omega \times mm^2/m)$	
PVC	4-5	-	-	
PE Flame Ret.	2.3	-	-	
PE	2.3	-	-	
PTFE/Teflon	2.0	-	-	
PE Foam	1.64	-	-	
Tin (Sn)	-	μ _r >1	0.115	
Gold (Au)	-	approx.	0.022	
Copper (Cu)	-	equal	0.017	
Silver (Ag)	-	to 1	0.016	
Air/Vacuum	ı	1.26x10 ⁻⁶ (և _ո)	-	



The Arken Award 2008 for "Lifetime Achievement" presented to **Tommy Jenving** for his service and contribution to the Swedish Hi-Fi industry over the last thirty years.

September, 2008 Gothenburg, SWEDEN

