

heynen 

Heynen works for innovators



Standard and Econom Connecting Patch Fields**ASF 1x32 AV Blueline****ASF 1x32 AV Light ******ASF 1x24 AV 3/1 xx Econom****32 (24) input and output channels in 19", 1 U
For 2 and 3 pole signals up to 12 Mb/s****** with back lighted front panel****** ASF 1x32 AV Light with back lighted front panel**

The **Blueline** connecting patch panels are designed for connecting and patching of 32 digital or analog 2 or 3-pole signal lines. The panels are equipped with a special channel shielding and are therefore suitable for all **digital and analog signals up to 12 Mb/s**.

Many different interconnecting modules are available and ensure a **quick and cost-effective wiring**. Routing and switching is made by 2 pole, 3 pole or 6 pole normalling plugs or 3 pole and 6 pole patch cords.

The **Ghielmetti self-cleaning double gold contact system** guarantees a high secure connecting system over live time.


ASF 1x32 AV 3/1 xx Blueline

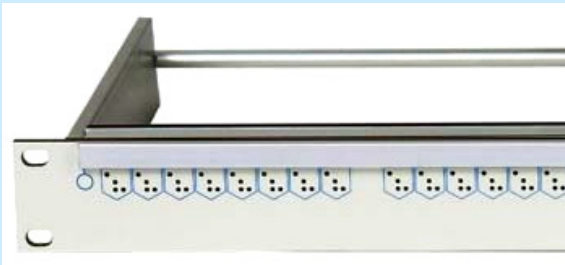
Delivery **including all 32 normalling connectors** cable bar and designation strips.

xx: indicates the connector modules ref. page 4

ASF 1x32 AV 3/1 SA Blueline **673.113.900.01**
for connecting modules or 3-pole connectors
 incl. 32 normalling plugs, white
 incl. 2 designation strips
 incl. 1 cable bar

ASF 1x32 AV 3/1 LA M Blueline **673.113.900.05**
incl. 4 solder lug connecting modules
 incl. 32 normalling plugs, white
 incl. 2 designation strips
 incl. 1 cable bar

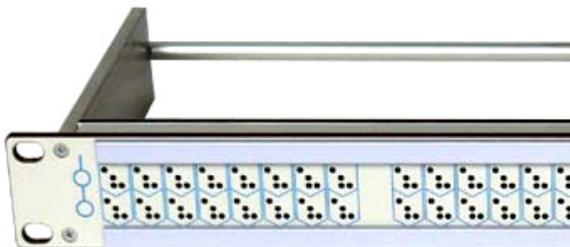
ASF 1x32 AV 3/1 SA G Blueline **673.113.900.61**
incl. 64 solder lug connectors GAS 323 LA C
 incl. 32 normalling plugs, white
 incl. 2 designation strips
 incl. 1 cable bar


ASF 1 x 32 A 3/1 xx Blueline

ASF 1 x 32 A 3/1 SA Blueline **673.113.910.01**
for connecting modules or 3-pole connectors
 incl. 1 cable bar
 incl. 1 designation strips

ASF 1 x 32 A 3/1 LA Blueline **673.113.910.05**
incl. 4 solder lug connecting modules (LA 1x8 A)
 incl. 1 cable bar
 incl. 1 designation strips

ASF 1 x 32 A 3/1 SA G Blueline **673.113.910.61**
incl. 32 solder lug connectors GAS 323 LA C
 incl. 1 cable bar
 incl. 1 designation strips


ASF 1 x 32 AP 3/1 xx Blueline

ASF 1 x 32 AP 3/1 SA Blueline **673.113.950.01**
for connecting modules or 3-pole connectors
 incl. 1 cable bar
 incl. 1 designation strips

ASF 1 x 32 AP 3/1 LA Blueline **673.113.950.05**
incl. 4 solder lug connecting modules (LA 1x8 A)
 incl. 1 cable bar
 incl. 1 designation strips

ASF 1 x 32 AP 3/1 SA G Blueline **673.113.950.61**
incl. 32 solder lug connectors GAS 323 LA C
 incl. 1 cable bar
 incl. 1 designation strips

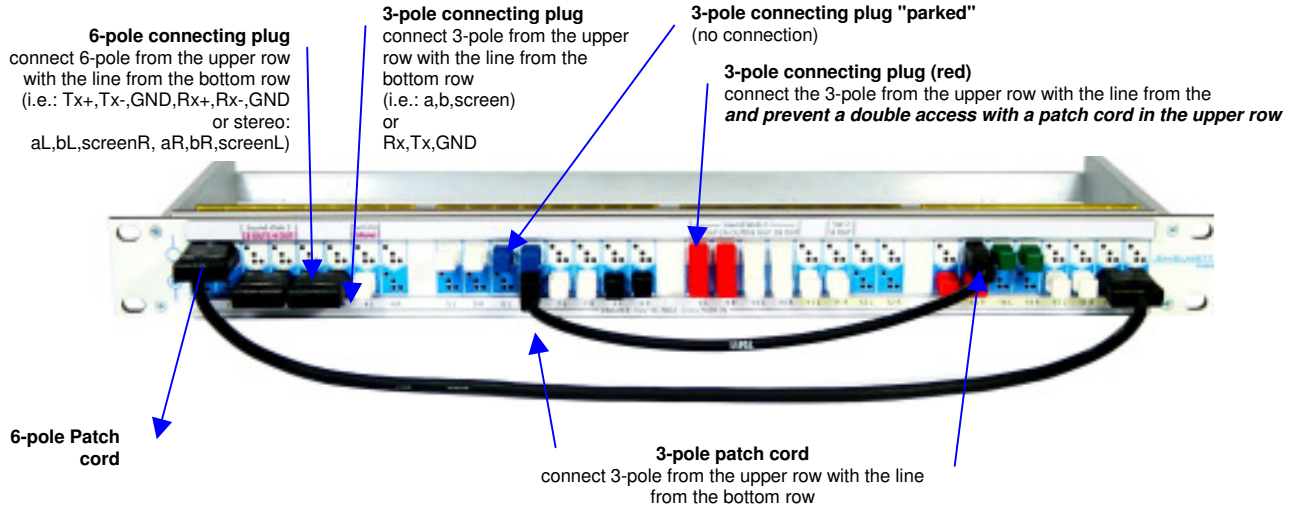
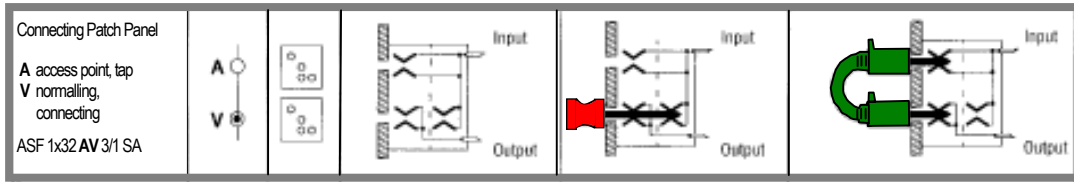

ASF 2 x 32 A 3/1 xx Blueline

ASF 2 x 32 A 3/1 SA Blueline **673.113.960.01**
for connecting modules or 3-pole connectors
 incl. 1 cable bar
 incl. 2 designation strips

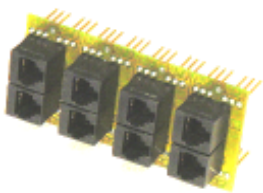
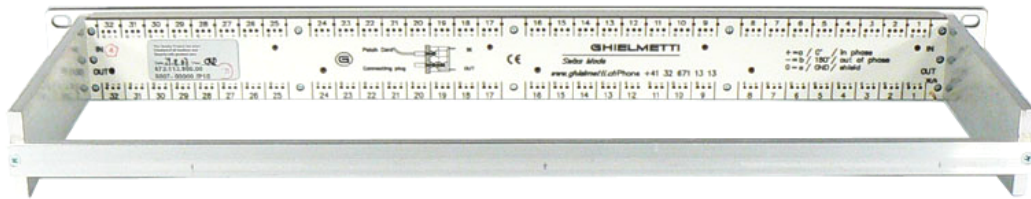
ASF 2 x 32 A 3/1 LA M Blueline **673.113.960.05**
incl. 4 solder lug connecting modules (LA 1x8 A)
 incl. 1 cable bar
 incl. 2 designation strips

ASF 2 x 32 A 3/1 SA G Blueline **673.113.960.61**
incl. 64 solder lug connectors GAS 323 LA C
 incl. 1 cable bar
 incl. 2 designation strips

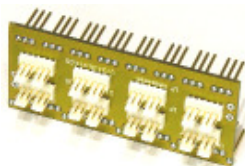
Functional description



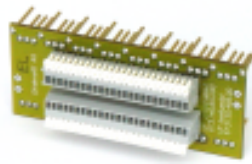
Interconnecting of the ASF 1x32 AV Blueline



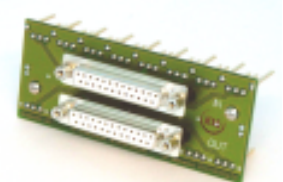
RJ11 2x8 AV
673.130.478.00



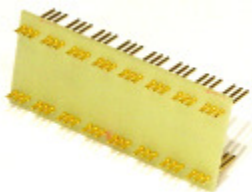
MX 2x8 AV
673.130.474.00



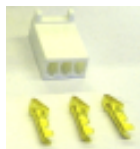
WA 2x8 AV
673.130.495.00



D25 2x8 AV 673.130.522.00



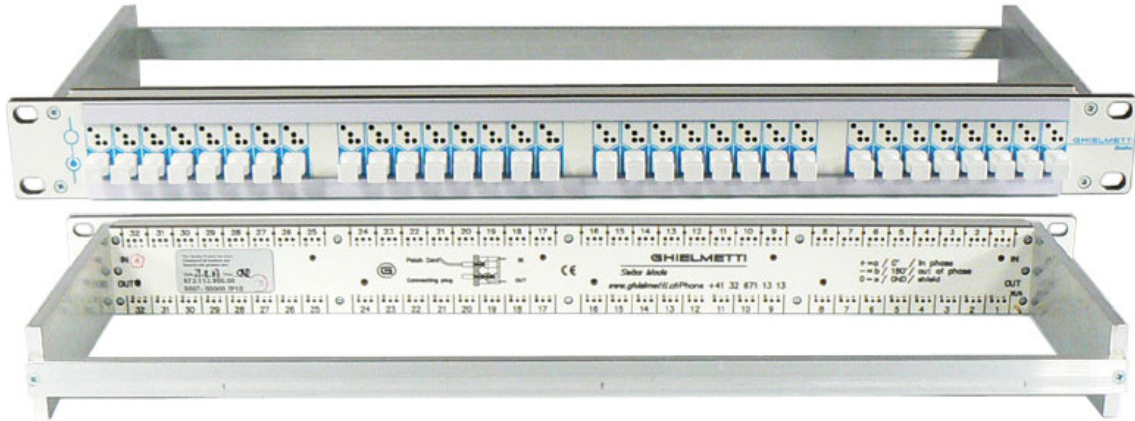
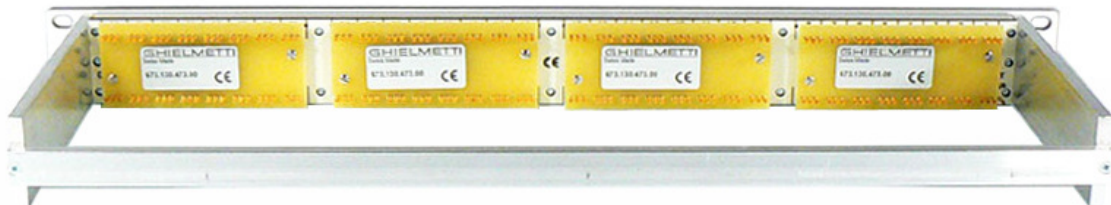
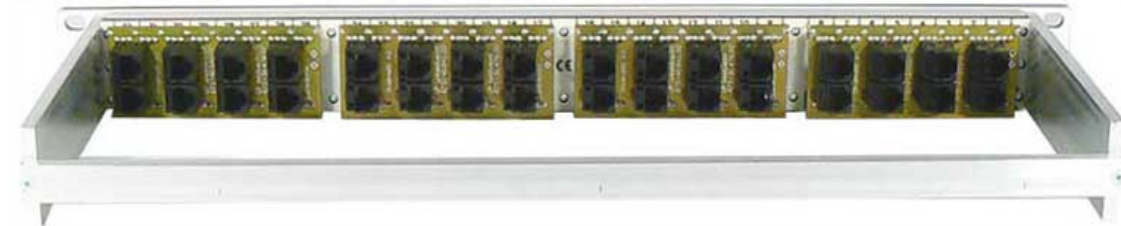
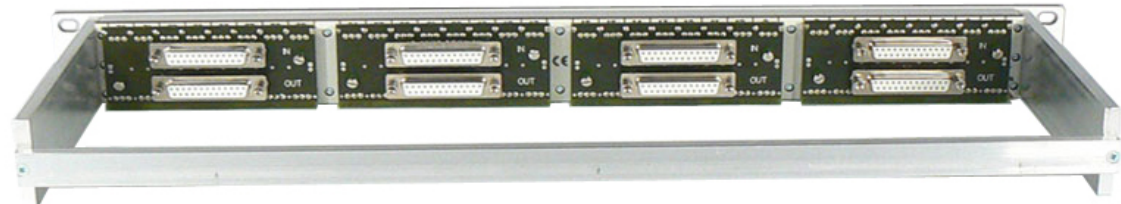
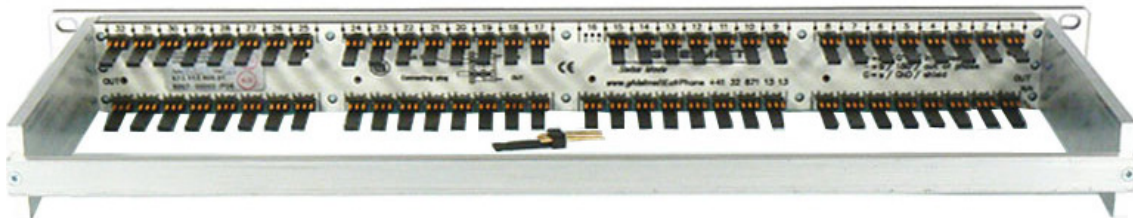
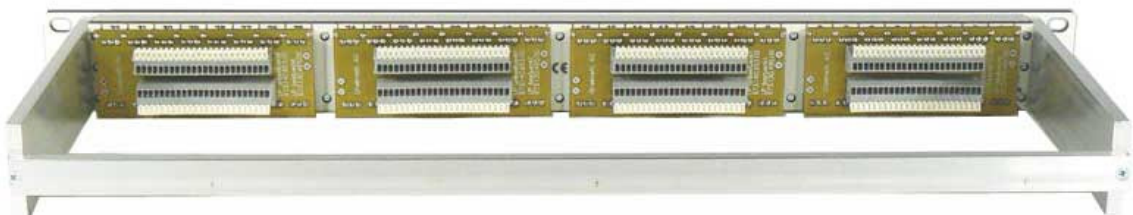
LA 2x8 AV
673.130.473.00



GMX 8S
673.130.474.02
MOLEX connector set, 8 pcs

D-Sub 25 pole, female - TASCAM		
Channel	Signal	D-Sub female
8	a	1
	b	14
	GND	2
7	a	15
	b	16
6	a	17
	b	18
	GND	5
5	a	19
	b	20
	GND	19
4	a	7
	b	20
	GND	8
3	a	21
	b	22
	GND	22
2	a	10
	b	23
	GND	11
1	a	24
	b	25
	GND	13
	NC	13

D-Sub 25-pole, female Standard		
Channel	Signal	D-Sub female
1	a	1
	b	14
	GND	2
2	a	15
	b	3
	GND	16
3	a	4
	b	17
	GND	5
4	a	18
	b	6
	GND	19
5	a	7
	b	20
	GND	8
6	a	9
	b	21
	GND	9
7	a	10
	b	22
	GND	11
8	a	24
	b	12
	GND	25
	NC	13

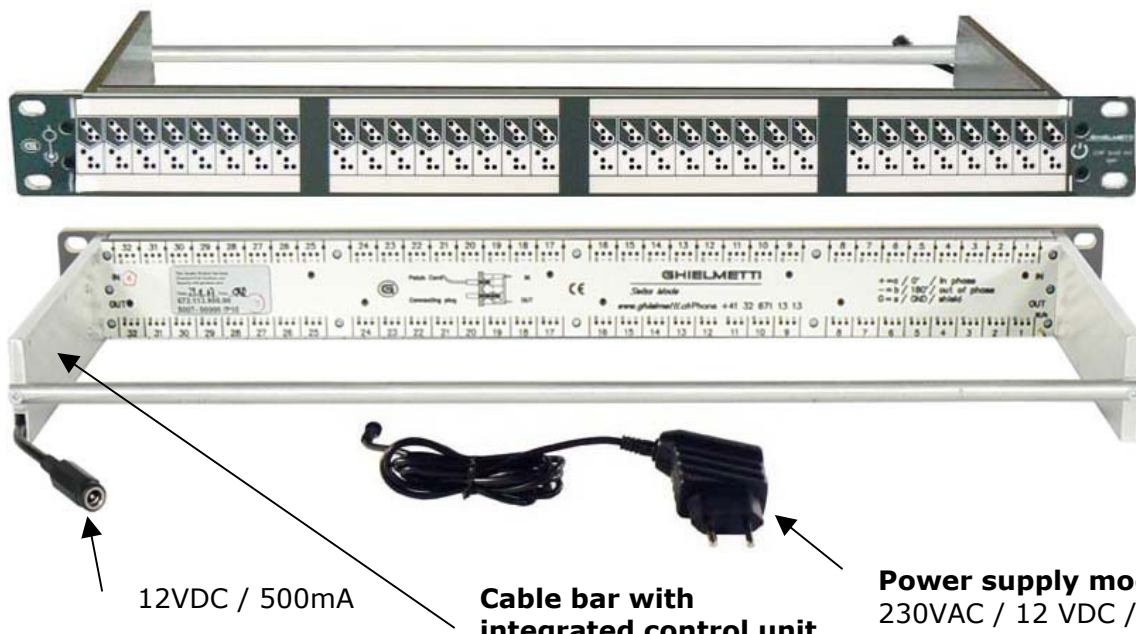
**ASF 1x32 AV 3/1 SA Blueline** plug-in facility, (without connector modules) **673.113.900.01****ASF 1x32 AV 3/1 LAM Blueline** solder lug modules **673.113.900.05****ASF 1x32 AV 3/1 LAM Blueline** RJ11 connector modules **673.113.900.21****ASF 1x32 AV 3/1 D25Sff Blueline** D-Sub 25-pole connector modules **673.113.900.31****ASF 1x32 AV 3/1 SAG Blueline** incl. 64 solder lug connectors **673.113.900.61****ASF 1x32 AV 3/1 D25Sff Blueline** WAGO clamp connector modules **673.113.900.91**

ASF 1x32 AV 3/1 xx Light

Standard Connecting Patch Panel with integrated illumination For the "Light"- version all connector facilities are available

ASF patch panels of the "Light" edition are equipped with a background illumination. This enables a safe operation even in a dark environment. The background illumination lights up not only all connecting points but also the designation strips so that the text can be read perfectly. The brightness may be adjusted stepwise by the turn on button. Several CSF Patch Panels may be cascaded with a jumper cable.

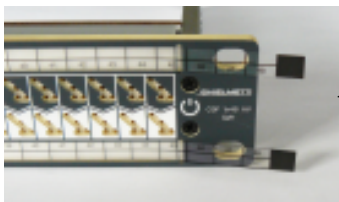
The technical specifications are equivalent to the ones of the respective standard types of each model. The background illumination is fed by a 12V/500mA/6W power source or by a commercial power supply adapter 230VAC/12VDC/500mA/6W. Several CSF light panels may be fed with a suitable power supply adapter.



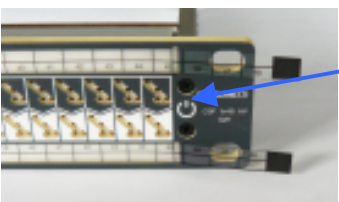
12VDC / 500mA

Cable bar with integrated control unit**Power supply module**
230VAC / 12 VDC / 500mA
Part. no.: 140.152.000.01**Inserting the label strips**

Use standard (thin) overhead transparency foil to make the label strips. Our templates, which can be obtained online at http://www.ghielmetti.ch/docs/xls/bezeichnungstreifen_d_e.xls allows you to fill out the form, print, and cut out such strips.



Please note how the label strip is inserted – carefully by slightly lifting the insertion slit. The black part must be added when cutting out the strip.

Operating instructions for the front panel lighting

Pressure switch with signalling LED
a) Turn lighting on/off
b) Program lighting level (LED blinks)

Once the device is connected to the 12VDC power supply, the on/off switch is glowing permanently.

Turn on with automatic switch-off after 60 seconds (mode 1)**Turn on:** *push briefly for less than 1 second*The lighting turns on and switches back off again automatically after **60 seconds**.**Turn off:** *push briefly.***Turn on/off manually (mode 2)****Turn on:** *Push for more than 1 sec. but less than 5 sec.*

The lighting turns on and stays on until turned off explicitly.

Turn off: *push briefly.***Setting the lighting level (programming mode: the signal LED blinks)****Entering programming mode:** *Push the button for more than 5 sec.*

Control enters programming mode: both LEDs blink alternately.

This mode allows adjusting the lighting level.

Setting the lighting level:*Pushing the button repeatedly increases the lighting level by one level per push.*

The highest level is followed by a return to the lowest level. There are 8 levels to choose from.

If the button is **not** pushed again within **3 seconds**, the chosen level is saved and the lighting stays on at that level (mode 2). It will **not** switch off automatically.**Turn off:** *push briefly of the button.***Reprogramming between single supply & common supply**

CSF Patch panels can be reprogrammed for single supply or common supply. In the common supply mode the patch panel is activated/deactivated solely through a common supply unit (GLS). Programming is made by on/off button and can be executed anytime.

Detection of programming mode

- **If the panel is lighted/unlighted after short pressing of the ON/OFF BUTTON the unit is in the single supply mode.**
- If lighting remains and cannot be switched off after short pressing of the **ON/OFF BUTTON the unit will be in the common supply mode.**

Reprogramming into the common supply mode

- Recreate initial state: Switch off the common supply unit (GLS).
- Push continuously the **ON/OFF-BUTTON** of the patch panel.
- **Switch on simultaneously** the common supply unit.
- **Keep pushed the ON/OFF-button** for more than 5 seconds until the patch panel is lighted. The unit is now in the common supply mode.

Switch on and off is done exclusively through the GLS power module.

The brightness can be programmed through the ON/OFF button on the patch panel (see operating instructions for the front panel lighting).

Reprogramming into the single supply mode

- Recreate initial state: Take out the AC adapter from socket.
- Push continuously the **ON/OFF-BUTTON** of the patch panel.
- **PLUG-IN simultaneously** the single supply into the socket.
- **Keep pushed the ON/OFF-button** for more than 5 seconds until the patch panel is lighted. The unit is now in the single supply mode.

Switch on and off is done exclusively through the ON/OFF BUTTON on the patch panel.

The brightness can be programmed through the ON/OFF button on the patch panel (see operating instructions for the front panel lighting).

Multiple output power module

3 special power modules are available to power multiple back lighted patch panels from a single source:

- GLS 8 230/12** Power supply for up to 8 "Light" patch panels
- GLS 16 230/12** Power supply for up to 16 "Light" patch panels
- GLS 24 230/12** Power supply for up to 24 "Light" patch panels

**GLS 16 230/12**

19", 1U

Operating instructions

A briefly push of the ON/OFF button turns on the lighting of all „Light“ patch panels. The lighting of each panel will turn on at the level that has been individually configured for that panel.

The LEDs to the left of the ON/OFF switch show the operating mode:

- 1 min On:** LED green, all patch panels will turn off after 1 minute.
- 2 min On:** LED green, all patch panels will turn off after 2 minutes.
- 5 min On:** LED green, all patch panels will turn off after 5 minutes.
- On:** LED yellow, all patch panels will remain turned on.

ASF 1x24 AV 3/1 xx Econom

24 input and output channels in 19", 1 U
xx: indicates the connector modules - ref. page 3

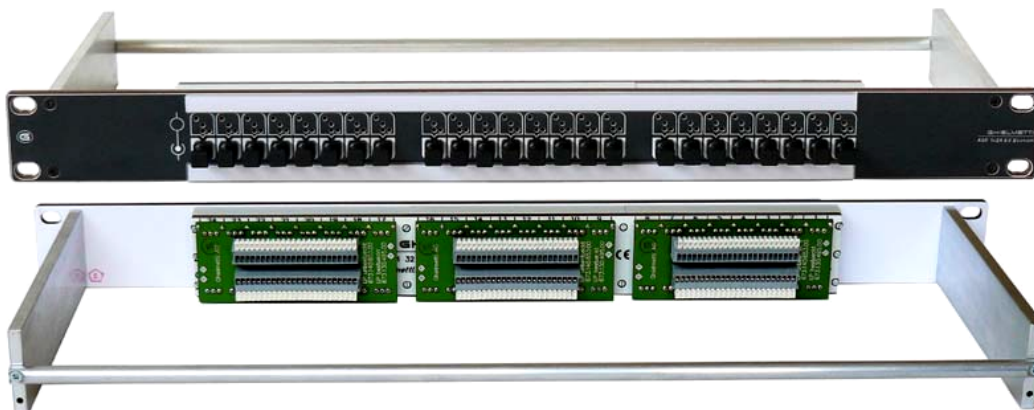
70 dB separation loss – without channel separation shields
to replace TT Jack Fields



ASF 1x24 AV 3/1 SA G Econom incl. 48 solder lug connectors and 24 normalling plugs



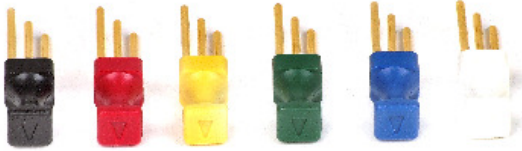
ASF 1x24 AV 3/1 D25Sff Econom incl. 3 Sub-D 25-pol connecting modules and 24 normalling plugs



ASF 1x24 AV 3/1 WA Econom incl. 3 WAGO connecting modules and 24 normalling plugs

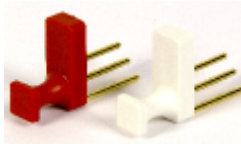
Accessories

3-pole-normalling plugs



GVS 323 c sw	3-pole, black	673.910.079.00
GVS 323 c rt	3-pole, red	673.910.079.02
GVS 323 c gb	3-pole, yellow	673.910.079.04
GVS 323 c gn	3-pole, green	673.910.079.05
GVS 323 c bl	3-pole, blue	673.910.079.06
GVS 323 c ws	3-pole, white	673.910.079.09

3-pole-normalling plugs with locking function



GVS 323 d rt	673.910.302.02
GVS 323 d ws	673.910.302.09

3-pole-locking plug:
avoids parallel tap of the incoming channel

2-pole-normalling plugs



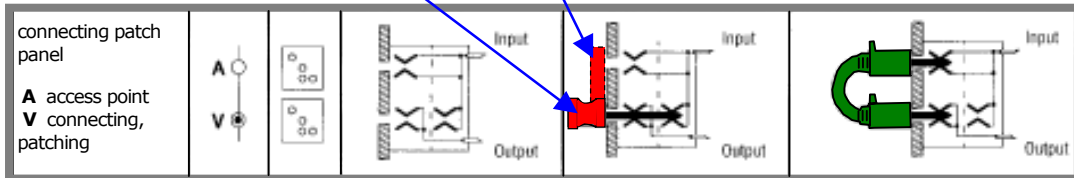
GVS 322 c ws	673.910.313.09
GVS 322 c rt	673.910.313.02

2-pole-normalling plugs with locking function



GVS 322 d ws	673.910.302.19
GVS 322 d rt	673.910.302.12

2-pole-locking plug:
avoids parallel tap of the incoming channel

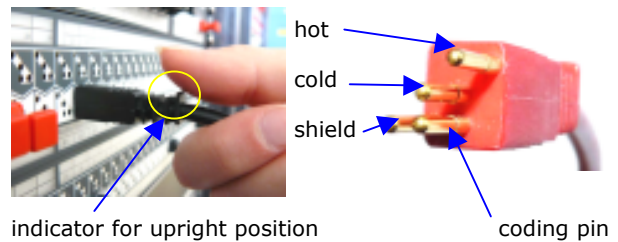


Patch Cord Connectors (G3P)

(not recommended for CSF patch panels)



GKS 313 m sw	black	673.910.201.10
GKS 313 m rt	red	673.910.201.12
GKS 313 m gb	yellow	673.910.201.14
GKS 313 m gn	green	673.910.201.15
GKS 313 m bl	blue	673.910.201.16



Adapter cables XLR to G3P

(Ghielmetti 3-pole connector)



GXK 313/30 f	black, 30 cm, female	673.910.301.05
GXK 313/30 m	black, 30 cm, male	673.910.300.05
GXK 313/60 f	black, 60 cm, female	673.910.301.02
GXK 313/60 m	black, 60 cm, male	673.910.300.02
GXK 313/90 f	black, 90 cm, female	673.910.301.01
GXK 313/90 m	black, 90 cm, male	673.910.300.01
GXK 313/120 f	black, 120 cm, female	673.910.301.00
GXK 313/120 m	black, 120 cm, male	673.910.300.00
GXK 313/180 f	black, 180 cm, female	673.910.301.03
GXK 313/180 m	black, 180 cm, male	673.910.300.03
GXK 313/250 f	black, 250 cm, female	673.910.301.04
GXK 313/250 m	black, 250 cm, male	673.910.300.04



673.910.269.06 blue, 60 cm



673.910.269.02 red, 60 cm



673.910.269.05 green, 60 cm



GMK 313/30 d	black, 30 cm	673.910.269.20
GMK 313/60 d	black, 60 cm	673.910.269.00
GMK 313/90 d	black, 90 cm	673.910.269.10
GMK 313/120 d	black, 120 cm	673.910.269.30
GMK 313/180 d	black, 180 cm	673.910.269.40
GMK 313/250 d	black, 250 cm	673.910.269.50

Patch cord with colour marks:





TECHNICAL DATA		<i>GKV series 300</i>
<i>Electrical data (transmission)</i>	Measuring range	Standard
Signal level	0 Hz < f < 5 MHz	-64 dBu to + 36 dBu
Crosstalk	(30 Hz < f < 30 kHz)	> 90 dB
Switch off attenuation	(30 Hz < f < 30 kHz)	> 90 dB
Insertion loss	(30 Hz < f < 30 kHz)	< 0,01dB
Symmetry loss	(30 Hz < f < 30 kHz)	> 60 dB
Operation voltage*	max.	50 VDC
Test voltage		1000 V
Line distances (pitch)		3 mm
Therm. rated current**		6 A
Contact resistance (bus bar – plug – bus bar)		0,8 – 1 m Ω
Resistance of a pair of contact bands per line		0,4 m Ω
Insulation resistance of parallel pair of contact bands		
	per 10 insertion points with 80 – 95 % humidity	5 x 10 ³ M Ω
Capacity of 2 parallel pairs of bands	distance: 10 insertion points	~ 5 pF
Capacity of 2 crossed pairs of bands	distance: 10 insertion points	~ 3,1 pF
CE / EMC / ESD		yes
<i>Mechanical data (contact material)</i>		
Insulation material		Polycarbonate
Air and surface-leakage paths		min. 1 mm
Operating temperature		-20...+50°C
Humidity (no condensation)		95%
Bus bars	Material	Cu Be
	Surface	0,25 μ Au over 2 μ Ni
Plugs	Material	brass
	Surface	0,25 μ Au over 2 μ Ni
Inserting and extracting forces	2-pole	4,5 N
	3-pole	7 N
	4-pole	11 N
	6-pole	20 N
	8-pole	24 N
	2-pole/4-layers	15 N
Contact force		~ 2 N
Number of insertions without loss of contact force		>10'000
Pin diameter	∅	1,6 mm

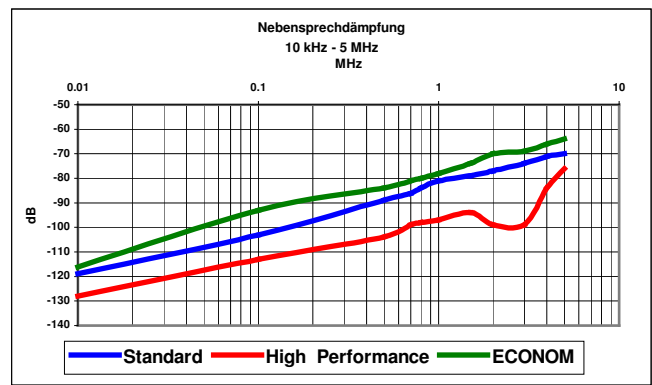
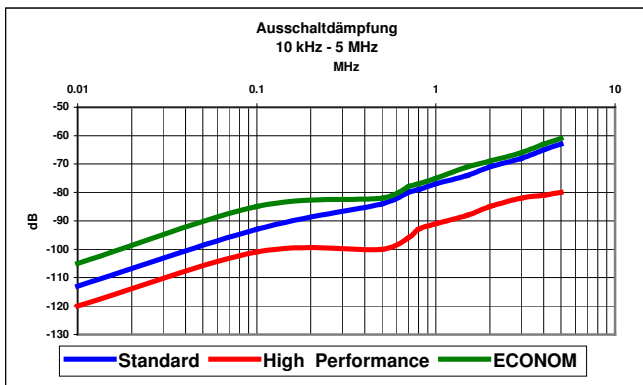
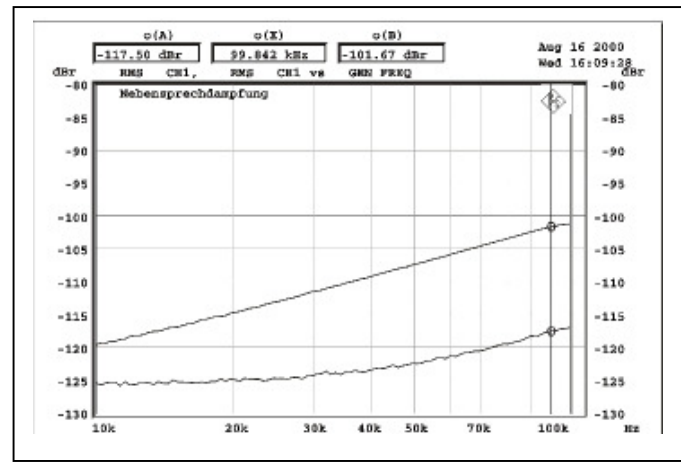
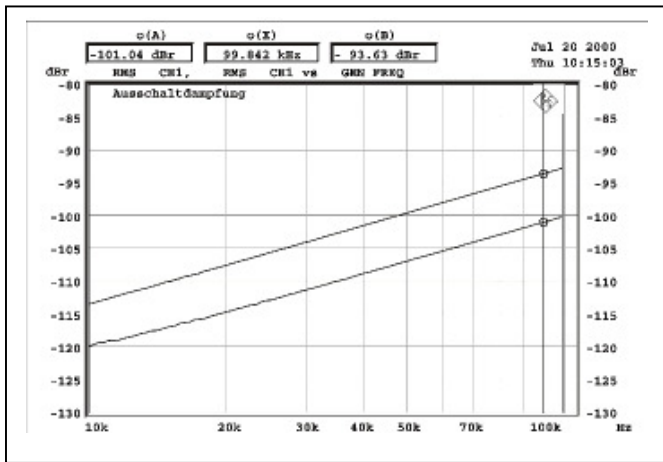
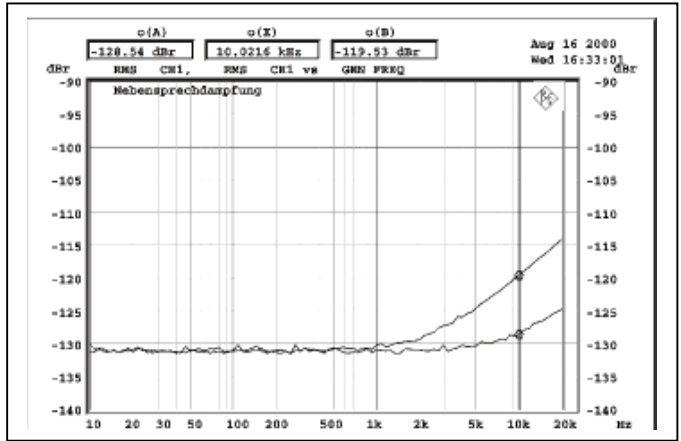
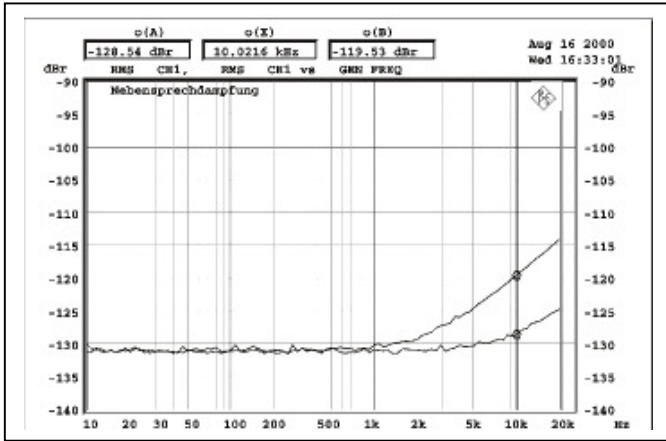


Switch off attenuation

10 Hz < f < 5 MHz

Cross talk attenuation

10 Hz < f < 5 MHz





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