GHIELMETTI

Standard and Econom Connecting Patch Fields

ASF 1x32 AV 3/1 xxx Blueline
ASF 1x32 AV 3/1 xxx 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

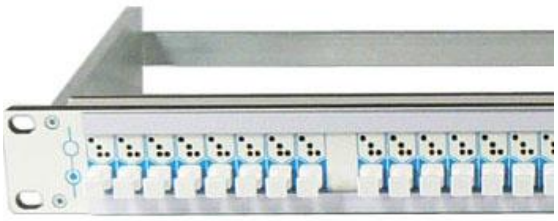
**** with back lighted front panel**

**** 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 connector 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 connector modules
incl. 32 normalling plugs, white
incl. 2 designation strips
incl. 1 cable bar

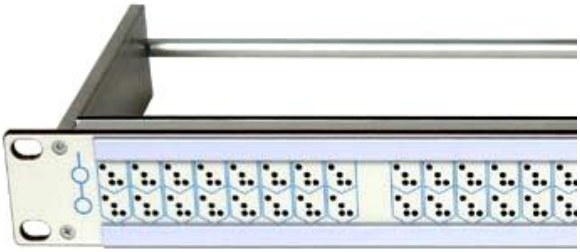
ASF 1x32 AV 3/1 SA G Blueline **673.113.900.61**
incl. 64 solder lug connectors GAS 323 LA C
incl. 32 normalling plugs, white
incl. 2 designation strips
incl. 1 cable bar

ASF 1 x 32 A 3/1 xx Blueline

ASF 1 x 32 A 3/1 SA Blueline **673.113.910.01**
for connector 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 connector 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 connector 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 connector 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 connector 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 connector modules (LA 1x8 AV)
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

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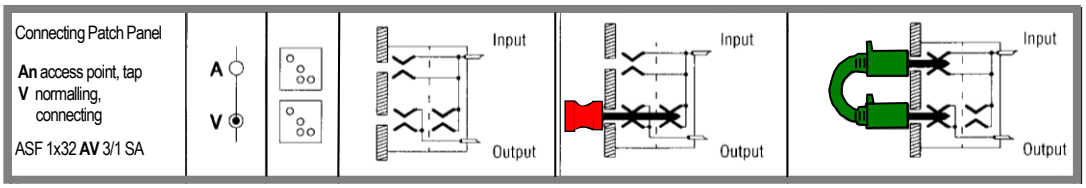
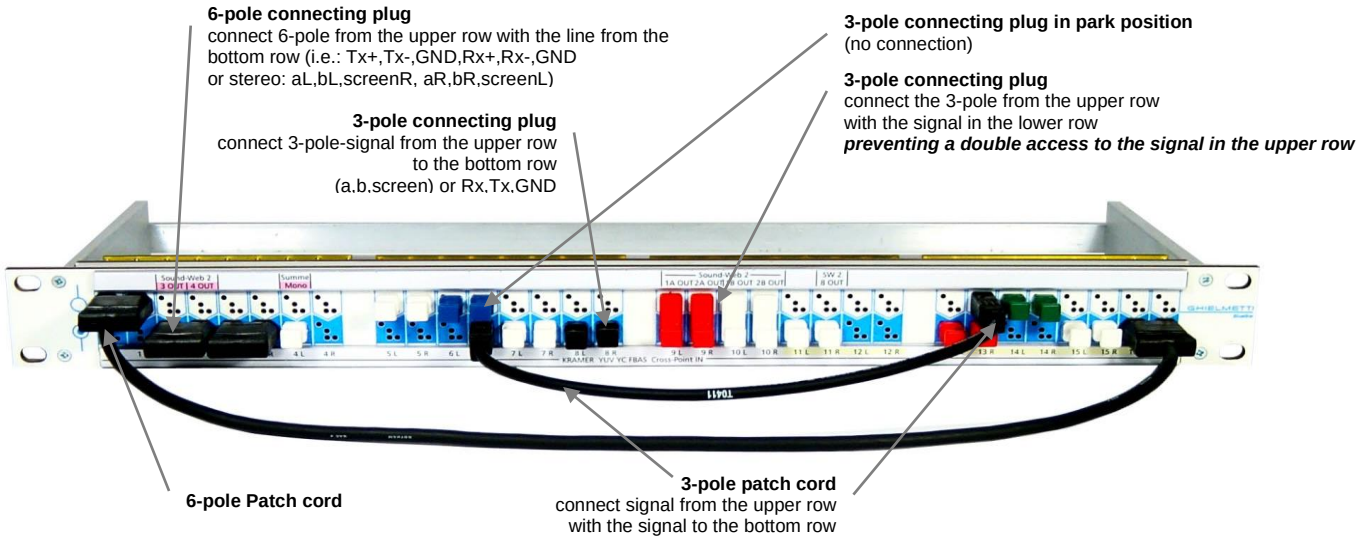
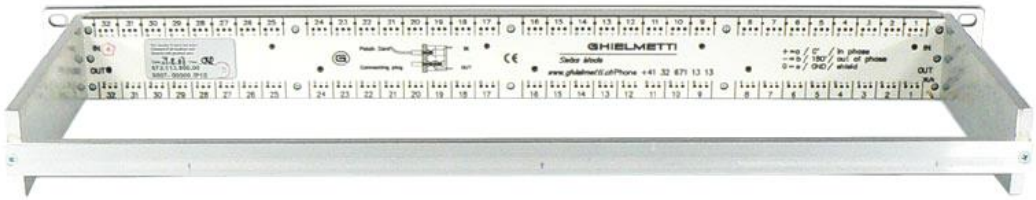
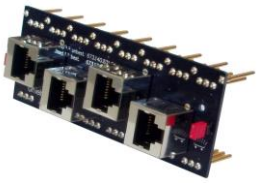
Functional description



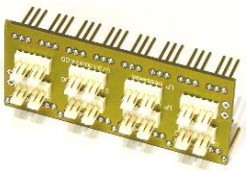


Interconnecting of the ASF 1x32 AV Blueline

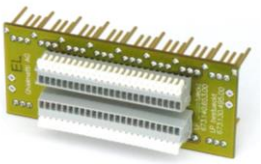




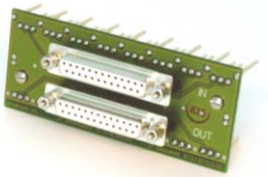
RJ45 2x8 AV
673.130.595.00



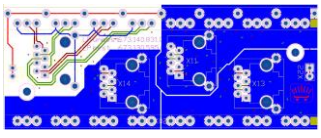
MX 2x8 AV
673.130.474.00

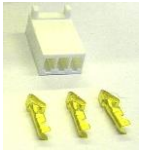


WA 2x8 AV
673.130.495.00

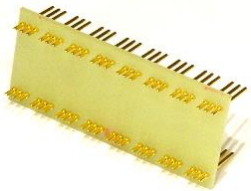


D25 2x8 AV 673.130.522.00





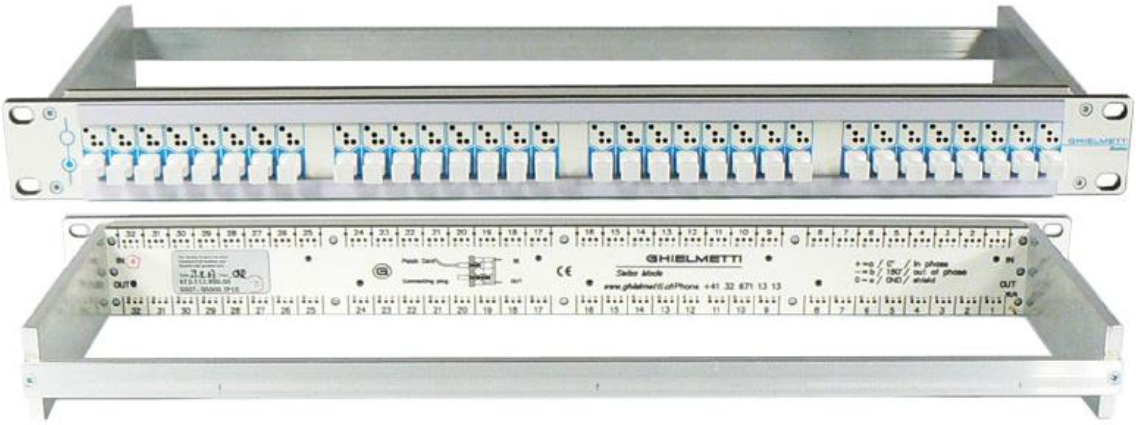
GMX 8S
673.130.474.02
MOLEX connector set, 8 pcs



LA 2x8 AV
673.130.473.00

RJ45 pin out								
Pin	1	2	3	4	5	6	7	8
Signal a,b	a1	b1	a2	b3	a3	b2	a4	b4
GND	Common ground to RJ45 housing							

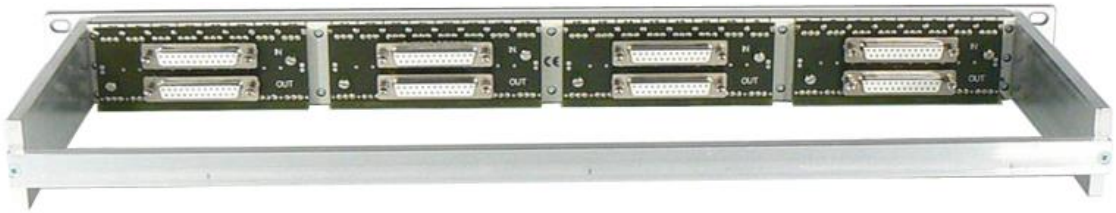
D-Sub 25 pole, female - TASCAM				D-Sub 25-pole, female Standard			
Channel	Signal	D-Sub female		Channel	Signal	D-Sub female	
		1				1	
8	a		14		a		14
	b	2			b	2	
	GND		15		GND		15
7	a	3		2	a	3	
	b		16		b		16
	GND	4			GND	4	
6	a		17	3	a		17
	b	5			b	5	
	GND		18		GND		18
5	a	6		4	a	6	
	b		19		b		19
	GND	7			GND	7	
4	a		20	5	a		20
	b	8			b	8	
	GND		21		GND		21
3	a	9		6	a	9	
	b		22		b		22
	GND	10			GND	10	
2	a		23	7	a		23
	b	11			b	11	
	GND		24		GND		24
1	a	12		8	a	12	
	b		25		b		25
	GND	13			GND	13	
	NC				NC		



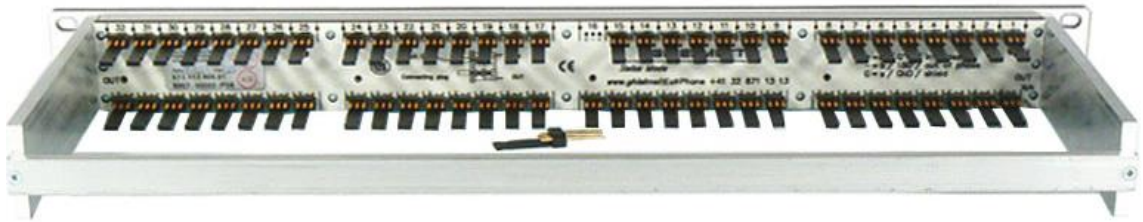
ASF 1x32 AV 3/1 SA Blueline plug-in facility, (without connector modules) 673.113.900.01

ASF 1x32 AV 3/1 LAM Blueline incl. 4 solder lug modules 673.113.900.05

ASF 1x32 AV 3/1 RJ45 Blueline incl. 4 RJ45 connector modules 673.113.900.95



ASF 1x32 AV 3/1 D25Sffcs Blueline incl. 4 D-Sub 25-pole connector modules 673.113.900.34



ASF 1x32 AV 3/1 SAG Blueline incl. 64 solder lug connectors 673.113.900.61

ASF 1x32 AV 3/1 WA Blueline incl. 4 WAGO clamp connector modules 673.113.900.91

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ASF 1x32 AV 3/1 Light

Standard Connecting Patch Panel with backlit labelling strips “Light”

For the "Light"- versions all connector facilities are available

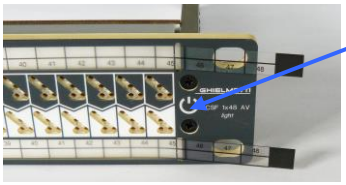
ASF patch panels of the “Light” edition are equipped with a backlit labelling strips. This enables a safe operation even in a dark environment. The backlight lights up the designation strips so that the labelling can be read perfectly. The brightness may be adjusted stepwise by the turn on button. Several Patch Panels may be cascaded with a Y-adapter.
The technical specifications are equivalent to standard types. The backlight is fed by a standard power supply adapter 230VAC/12VDC/500mA/6W. Multiple “Light”-panels may be supplied by multiple power supply unit.

Inserting the label strips

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

Please note that you insert the labelling strip carefully the insertion slit.

Operating instructions for the lighting the backlit



Push button with LED
If device is connected to 12VDC the on/off switch is is always lit.

a) Turn lighting on/off
b) Press the push button 5 sec to enter the programming mode. The LED flashes.
Press the button repeatedly for dimming the light in 7 steps

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 off 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 continuously.

Turn off: ***push briefly.***

Setting the lighting level (programming mode: the LED flashes)

Entering programming mode: ***Push the button for more than 5 sec.***
Control enters programming mode: both LEDs flashes alternately.
This mode allows adjusting the lighting level in 7 steps

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

The backlit function 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 in 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 power 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 unit to "Light"-Patch Panels

GLS 2200-16-RJ10 19", 1RU, 16 12 VDC power connectors 673.114.143.97

Input voltage:	87 VAC ... 230 VAC
Output voltage:	12 VDC, RJ10 connectors female
	max. 100 mA per Output

Operating instructions

A brief push of the ON/OFF button turns on the lighting of all „backlight" 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 on lightning state turned on.

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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 – replace TT Jack Fields

ASF 1x24 AV 3/1 SA G Econom incl. 48 solder lug connectors and 24 normalling plugs 673.115.800.61

ASF 1x24 AV 3/1 D25Sff Econom incl. 3 Sub-D 25-pol connecting modules and 24 normalling plugs 673.115.800.31

ASF 1x24 AV 3/1 WA Econom incl. 3 WAGO connecting modules and 24 normalling plugs 673.115.800.91

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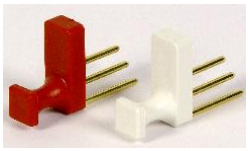
Accessories

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

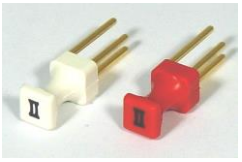
3-pole-normalling plugs with locking function



GVS 323 d rt 673.910.302.02
GVS 323 d ws 673.910.302.09

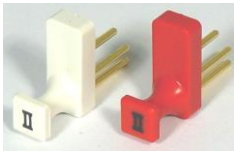
3-pole-locking plug:
avoids parallel tap of the incoming channel

2-pole-normalling plugs



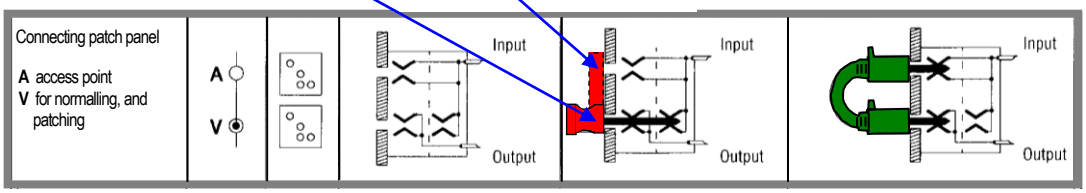
GVS 322 c ws 673.910.313.09
GVS 322 c rt 673.910.313.02

2-pole-normalling plugs with locking function



GVS 322 d ws 673.910.302.19
GVS 322 d rt 673.910.302.12

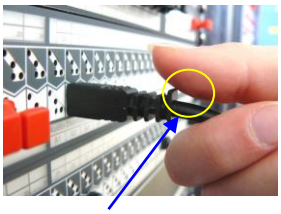
2-pole-locking plug:
avoids parallel tap of the incoming channel

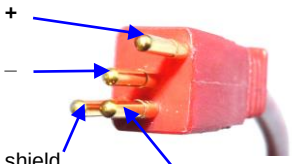


Cable connector (G3P)

(not suitable for CSF patch panels)

GKS 313 m sw	schwarz	673.910.201.10
GKS 313 m rt	rot	673.910.201.12
GKS 313 m gb	gelb	673.910.201.14
GKS 313 m gn	grün	673.910.201.15
GKS 313 m bl	blau	673.910.201.16





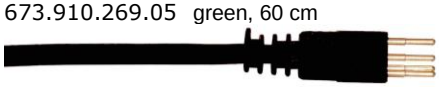
Indicate upright position of patch connector

coding pin

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 cords with colour markings available:

Adapter cable XLR to G3P (Ghielmetti 3-pol 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

MOGAMI
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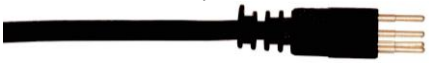
GMK 313/60 d M sw,	schwarz, 30 cm	673.910.281.20
GMK 313/60 d M sw,	schwarz, 60 cm	673.910.281.00



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TECHNICAL DATA

Electrical data (transmission)	Measuring range	*GKV series 300* 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

Mechanical data (contact material)		
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	Ø	1,6 mm

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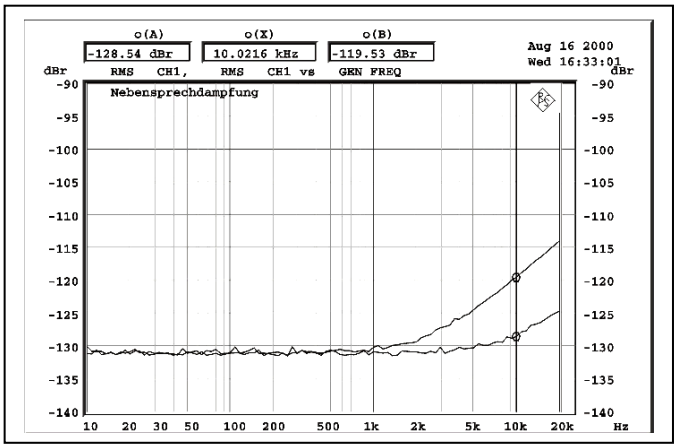
Switch off attenuation
10 Hz < f < 5 MHz



Cross talk attenuation
10 Hz < f < 5 MHz