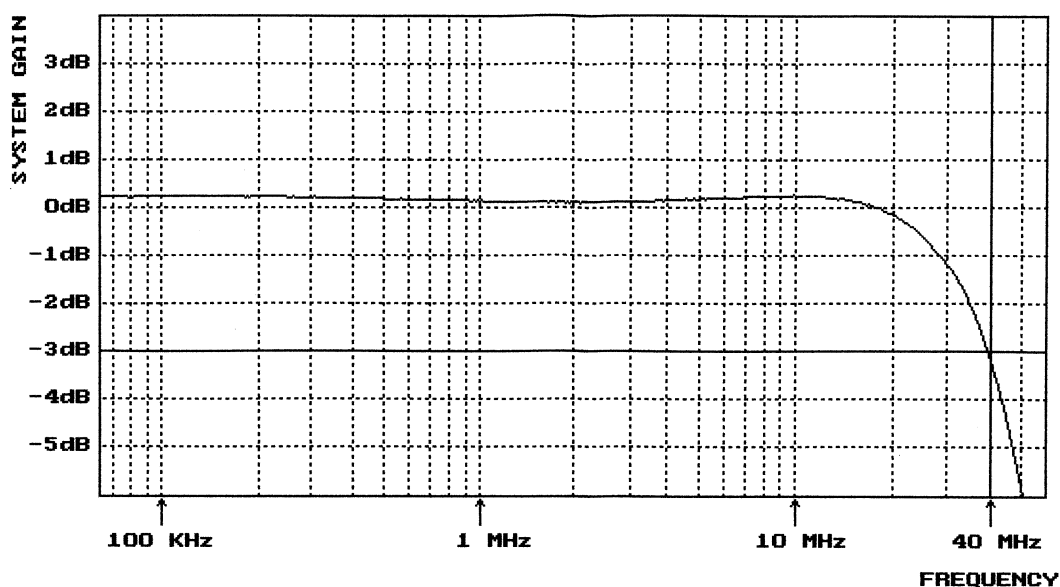




TEST CERTIFICATE

SUHNER FIBEROPTIC

Frequency response : 2 m 50/125 μ m fibre



Test results of System 24

Type transmitter : 9855.24.AR Serial number : 40101 Order number : 646834.31
Type receiver : 9856.24.AR Serial number : 41097 Order number : 646835.32
Tester : Rei
Date of testing : 23.1.1997

Supply current transmitter : 84 mA, -17 mA Supply current receiver : 68 mA, -53 mA
Cut-off frequency (3dB) : 36.5 MHz Optical output power 50/125 μ m : -18.3 dBm

Videoparameter at -18 dBm

Bar amplitude	: 0.1 %	Tilt	: -1.2 %
Baseline distortion	: -0.3 %	Sync amplitude	: 1.3 %
Luminance nlin	: 5.1 %	2T amplitude	: -1.0 %
2T K factor	: 0.2 %	C/L gain	: -0.7 %
C/L delay	: -6.0 ns	C/L intermodulation	: 0.6 %
Burst amplitude	: 1.3 %	Diff gain	: 3.6 %
Multiburst 1	: -0.9 %	Diff phase	: 0.5 °
Multiburst 2	: -1.7 %	C NL gain	: 0.5 %
Multiburst 3	: -2.3 %	C NL phase	: 0.2 °
Multiburst 4	: -1.9 %	Signal to noise weight on	: 60.2 dB
Multiburst 5	: -2.0 %	Signal to noise weight off	: 51.9 dB
Multiburst 6	: -1.7 %	Hum black	: 55.0 dB
Hum color picture	: 53.1 dB		

SUHNER FIBEROPTIC SYSTEM 24

Installation

- install transmitter and receiver
- connect transmitter and receiver optically with an optical fiber cable
- supply:
 - with supply unit type 9809.20.D
 - with rack unit type 9809.10.B, C or D (only rack-version)
 - with included supply cable over external $\pm 12V$ supply
- function control transmitter system 850nm:
 - optical output lights weakly, even without analog signal
- connect electrical signal inputs and outputs

Adjustments

The system gain is kept constant by the automatic gain control (AGC) and is 0 dB ex works. But on request, the output amplitude can be varied by $\pm 50\%$.

Procedure:

- remove black protective cap on the receiver
- turn clock-wise → higher amplitude

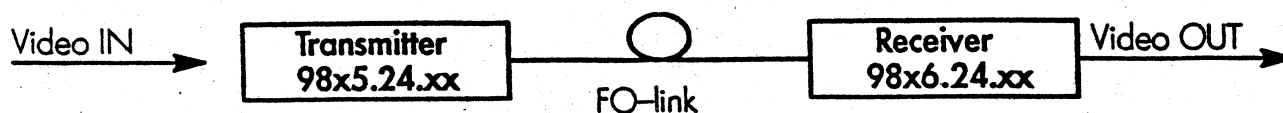
Technical data

Operating voltage transmitter/receiver	:	$+V_{cc}$ (10.8V - 16V)
	:	$-V_{cc}$ (-6V - -16V)
Current consumption transmitter	:	+ 95/-20mA
receiver	:	+ 60/-55mA
Input transmitter	:	1Vpp/75 Ω max. 1.5Vpp
Output receiver	:	1Vpp/75 Ω
System gain	:	0dB
	:	(output voltage adjustable by $\pm 50\%$)
Operating temperature range	:	-10°C to +60°C

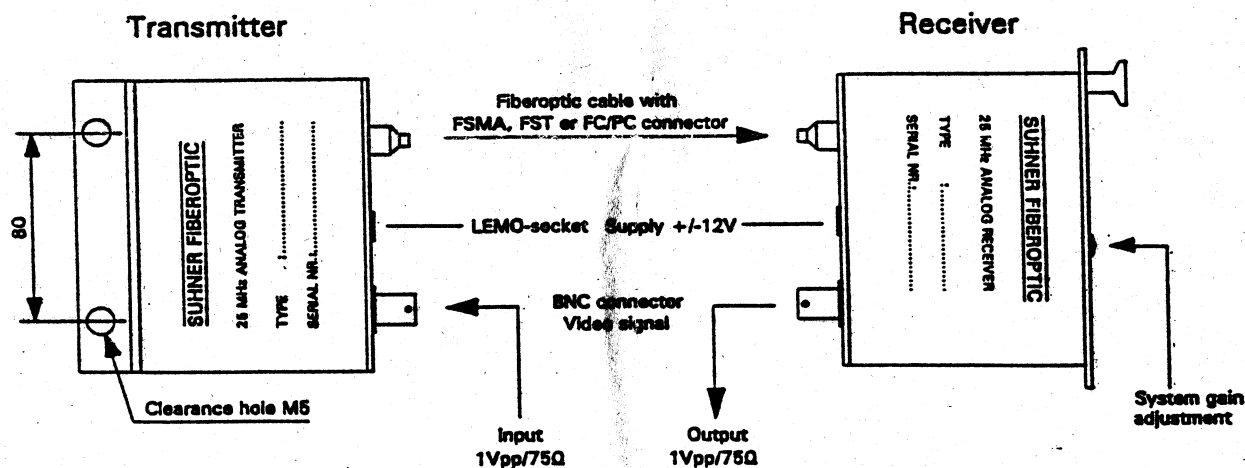


SUHNER FIBEROPTIC SYSTEM 24

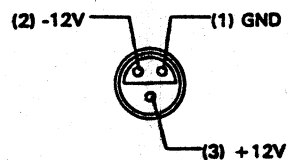
Block diagram



Module connections



Connector wiring LEMO-socket



Color coding of
the supply cable
White : +12V
Brown : -12V
Green : GND