

catTV

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TV, PC, radio and telephone on one cable

Multimedia networks over application-neutral cabling with the aid of catTV:

Hirschmann's catTV technology was developed to be able to also transmit radio, television and added value services over data networks used in the past only for telephone and Internet. As a result additional coaxial cabling is unnecessary. Television reception can be realised at any point on the data network.

- Multimedia application (radio, TV) direct over existing 100 Ohm application-neutral building cabling = "structured cabling" (Twisted pair cabling to category 6/7)
- Using the doubly active catTV system (distribution panel and balun can be adjusted to compensate for link attenuation up to 50 dB. As a result it is also possible to cover the maximum structured cable length (90 m).
- Using the star-shaped, "structured cabling", services can be provided to each subscriber individually
- catTV panel

Active distribution panel for the distribution of CATV signals over application-neutral building cabling.

The catTV panel converts the CATV signal (coaxial/75 0hm) into a symmetrical signal (sym./100 0hm) for transmission over the application-neutral building cabling via the patch panel on the subscriber cable.

catTV balun

The catTV balun is connected to the RJ45 subscriber outlet using a patch cable. The balun (balanced - unbalanced) converts the symmetrical signal (100 Ohm) received from the catTV panel over the application-neutral cabling into a coaxial signal (75 Ohm) that can process the subscriber unit (e.g. TV and radio).

- Enhancements and the incorporation of additional subscribers can be undertake at low cost without additional installation effort – no additional calibration necessary
- No installation of an additional coax network for the TV multimedia application
- All TV channels available from 45 (85) to 862 MHz can be transmitted
- Suitable for return channel, with active and passive return channel (5-30 MHz or 5-65 MHz)
- Plug and Play system. Matching of the attenuation and the slope to existing cable length is performed straightforwardly using a switch (in 3 steps) at the balun

Multimedia network termination

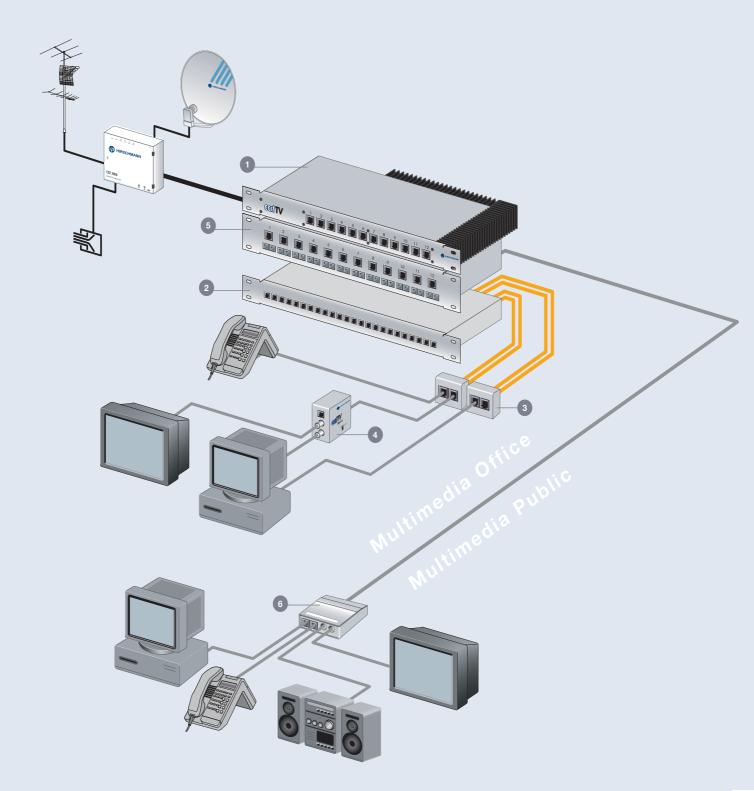
The multimedia network termination NA 200 is primarily used in multimedia public structures and provides the permanently installed termination of a 6-pair symmetrical multimedia cable. Up to 4 end units - e.g. PC, telephone, TV and radio can be connected to the surface mounted outlet.

catTV for usage in/at

- Office and industrial buildings
- Clinics and hospitals
- Rehabilitation centers
- Banks, saving banks
- Stock exchange workstations
- Brokers
- Insurance buildings
- Airports

- TV stations and TV studios
- Administration buildings
- Hotels, holiday complexes
- Residential areas
- Sport arenas
- Correspondent stations





- 1 catTV panel
- 2 Standard patch panel
- 3 RJ45 double outlet
- 4 catTV balun
- 5 Multimedia patch panel
- 6 Multimedia network termination

catTV

catTV panel

Туре

(catTV panel
,	Injection of the RF signals
	Level control + equalizer on the input
•	Input test point
•	Amplification per output by means of
	GaAs hybrids
	0 : (750) : 0

- Conversion of 75 Ω(coaxial) in 100 Ω (symmetrical), RJ 45
- Loading of the cable in pairs
- (HF 1.2; remote feed/RP 7, 8)TV signals are only active if balun connected
- Standard RP active and passive modules can be added
- Static shutdown of the individual ports possible
- External power supply
- Normal operation. Max. cable attenuation that can be compensated 40 dB. The externally connected passive network components must have a minimum shielding of 75 dB.
- Special operation. Max. cable attenuation that can be compensated 50 dB. The externally connected passive network components must have a minimum shielding of 85 dB.

catTV balun

- Injection of the signals over RJ 45
- Conversion back from 100 Ohm to
- 75 Ohm
- Amplification of the RF signal Allocation of the signals to the outputs
- Anocation of the signals to the outputs
 3 variants: without RP, RP 5-30 MHz,
- RP 5-65 MHz
- Slope and attenuation of
- max. 50 dB are compensatedPlug and Play
- 3 switch settings for straightforward matching to different cable lengths

Order No. 9

947 745-001

NPN 3412

MHz	45-862, optional return path		
dBµV	60-80 ¹⁾ 70-83 ²⁾		
dB	0-20		
dB	0-18		
dB	7		
dB	34		
dB	15		
dBµV	94 ¹⁾ 104 ²⁾		
dBµV	70 ¹⁾ 80 ²⁾		
	F-socket		
	RJ 45 socket, 6-pole, 100 Ω		
	Sub-D socket, 15-pole		
	28 V DC ±5%; max. 1.9 A		
	930 mA, without balun		
	External, protection class 2, short-circuit proofed		
е	0-50 °C		
mm	483 x 42 x 180 (19", 1 HE)		
kg	2.8		
	dBµV dB dB dB dB dBµV dBµV		

catTV

catTV balun

Туре		NBL 0200	NBL 0230	NBL 0265	
Order No.		947 747-001	947 749-001	947 748-001	
				Contraction of the second seco	
Input frequency M	IHz	45-862	45-862	45-862	
Return path M	IHz		5-30	5-65	
Input level dl	BµV	54-90	54-90	54-90	
Gain dl	В	6/-7/-20	6/-7/-20	6/-7/-20	
Pre-equalization dl	В	18/10/0	18/10/0	18/10/0	
Output level de	BµV	60-77	60-77	60-77	
Input		RJ 45 socket, 8-pole, 100 Ω symmetrical			
Outputs T	V	plug, IEC, 75 Ω			
R	F	socket, IEC, 75 Ω	-	-	
D	ATA	-	socket, F, 75 Ω	socket, F, 75 Ω	
pl	hone	RJ 45 socket, 8-pole, 100 Ω symmetrical			
Power supply		10 V	10 V	10 V	
Current consumption		70 mA	70 mA	70 mA	
Operating temperature		0-50 °C	0-50 °C	0-50 °C	
Dimensions m	nm	81 x 35 x 59	81 x 35 x 59	81 x 35 x 50	
Weight g		112	112	112	

Multimedia network termination

Тур		NA 200	NAH 200	NAH 265	NAR 245
Order Code		940 048-001	940 049-001	940 050-001	940 051-001
					1
frequency range					
Output "RF"	MHz		5-862	45-862+5-65	5
Output"TV"	MHz		45-862	45-862	
Throughp. Attenuat.	MHz		6/11	6/11	
Return loss	dB	14	14	14	14
Outputs		2 x RJ 45	2 x F	2 x F	1 x RJ 45

Multimedia network termination

NA 200: base unit with 2 x RJ 45 sockets for telephone/ISDN + Ethernet. Prepared for the use of an HF or RJ module. Services: e.g. Telephony + Ethernet Modules: NAH 200: HF module with passive balun without return channel, 2 F-sockets. Services: e.g. TV/radio NAH 265: HF module with passive balun and return channel, 2 F-sockets. Services: e.g. TV/radio + cable modem for Internet and Telephony NAR 245: RJ module, use with RJ 45-socket, cat 6, class E. Services: Telephony/Ethernet