



hybrid cable

4 x CAT5e + 8 x digital audio + power 2.5 mm²

- 4 x CAT5e data cable - solid AWG 24/1
- 8 x digital audio cables - 110 Ohm, AWG 26/7
- CAT and audio with foil shield
- power cable: 3x 2.5 mm²

PVC

CAT
5E36
2.5

This cable forms the basis of the KLOTZ Universal Multicore System and was designed after requests by rental companies seeking options for complete sound and lighting system cabling that would avoid interference from different earth potentials. The cable includes four CAT5 data lines enabling devices to be connected in digital audio networks using Dante™, CobraNet® or EtherSound® and which can also transmit lighting control signals via ArtNet® or MA Net. The eight digital audio channels can be used for DMX lighting control, equipment control signals based on RS485 protocol or CAN bus, or for analogue or digital audio (sound, monitoring and intercom). A power line with 3 x 2.5 mm² cross-section provides power for equipment such as an FOH (Front of House) mixing desk and can also cope with long distances.

hybrid

twisting	4x data CAT5e + 8x audio + power
taping	fleece
outer jacket	PVC, Ø 25.5 mm
temperature range	
mobile use	-25°C / +70°C
installed	0°C / +50°C
min. bending radius	10x overall diameter
material	lead-free
CE conformity	acc. to EU directive LVD 2006/95/EG
no hazardous substances	acc. to EU directive RoHS 2011/65/EU from 08.06.2011
flame retardancy	flame retardant acc. to IEC 60332-1-2
heat of combustion	10,133 MJ/km (2.807 kWh/m)

data cable

type	CAT5e, AWG 24/1, F/UTP
conductor	solid bare copper wire, Ø 0.51 mm (AWG 24)
core insulation	foam-skin PE
core stranding	2 cores twisted to a pair
cable stranding	4 pairs twisted
overall shield	AL/PET foil + drain wire
outer jacket	PVC, grey, numbered, Ø 5.7 mm
conductor resistance	< 90 Ω/km
mutual capacitance	50 pF/m
characteristic impedance	100 Ω ± 15%
signal speed	0.68 c
nom. attenuation [dB/100m]	
1 MHz	2.0
10 MHz	6.1
20 MHz	8.7
100 MHz	20.6

audio cable

cond. construction	stranded tinned copper, 7 x 0.16 mm (AWG 26/7)
cond. cross section	0.14 mm²
insulation	foam-skin PE
core arrangement	2 cores twisted to a pair
shielding	tinned stranded drain wire + AL/PETP foil
outer jacket	PVC, black, numbered, Ø 3.0 mm
conductor resistance	< 135 Ω/km
capacitance	46 pF/m
characteristic impedance	110 Ω
nom. attenuation [dB/100m]	
1 MHz	3.4
10 MHz	7.3
20 MHz	9.0
insulation resistance	> 30 GΩ x km
test voltage	
cond. / cond.	1200 V
cond. / shield	500 V

power cable

conductor	stranded bare copper, fine-wired acc. to IEC 60228, class 5
insulation	PVC
no. of cores	3, blue, brown and green-yellow
jacket	PVC, black, Ø 10.0 mm
conductor resistance	7.5 Ω/km
insulation resistance	> 0,01 MΩ x km
rated voltage	300/500 V
test voltage	2 kV

order code	included cable types	cond. cross section mm²	outer Ø mm	cable color	weight kg/m
HC54A8P2	4x CAT5e + 8x audio + power	2.5	25.1	black	0,66

technical specifications are subject to change