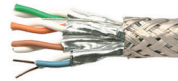


HELUEVENT® CAT.7 PUR BROADCAST FLEX

Data cable for studio broadcast and MI, 10Gig



HELUEVENT® CAT.7 PUR BROADCAST FLEX

TECHNICAL DATA

Ethernet cable / Cat. 7 acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-6, DIN EN 50288-4-2, ANSI/TIA 568B; POE Typ 1-4

Temperature range	flexible 0°C to +50°C fixed -20°C to +60°C
Nominal voltage	80 V AC/DC
Test voltage core/core	1000 V DC
Test voltage core/screen	1000 V DC
Conductor resistance at 20°C	max. 125 Ohm/km
Loop resistance at 20°C	max. 250 Ohm/km
Mutual capacitance (nom.)	approx. 43 pF/m
Rel. Velocity of Propagation	approx. 75%
Characteristic impedance at 20°C	at 100 MHz, 100 Ohm ± 5 Ohm
Propagation delay	460 ns/100m
Delay skew	max. 10 ns/100m
Minimum bending radius	flexible 8 x outer Ø fixed 4 x outer Ø

- Screen element: pairs, plastic-coated aluminium foil (St)
- Pairs stranded with optimal lay length
- Screen: braided screen of tinned copper wires, approx. coverage 46%
- Protective tape
- Outer sheath: PUR
- Sheath colour: black
- Length marking: in metres

PROPERTIES

- resistant to: UV radiation
- halogen-free

APPLICATION

HELUEVENT® CAT 7 PUR BROADCAST FLEX is a data cable for studio and broadcast applications in the music industry. It is highly flexible and features a special PUR sheath. This cable is suited for indoor and outdoor installations, however not for underground installation. It supports Audio over IP (AoIP), video Ethernet; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; IEEE 802.5 16 MB; ISDN; FDDI; ATM.

NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only.

CABLE STRUCTURE

- Copper wire bare, AWG sizes
- Core insulation: Foam-PE
- Core identification: colour-coded, pairs:
 - No. 1: white / blue
 - No. 2: white / orange
 - No. 3: white / green
 - No. 4: white / brown
- Cores stranded in pairs with optimal lay lengths

TYPICAL VALUES

Frequency (MHz)	10	16	31.25	62.5	100	200	300	600
Attenuation (dB/100m)	8.0	10.0	14.0	20.0	26.0	37.0	47.0	67.0
NEXT (dB)	100.0	100.0	100.0	100.0	100.0	95.0	92.0	90.0
ACR (dB/100m)	92.0	90.0	86.0	80.0	74.0	58.0	45.0	23.0

Part no.	No. cores x AWG-No.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11029360	4 x 2 x AWG 26 /7	7.1	17.5	45.0