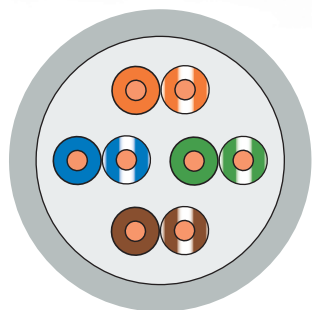




VOKA-LAN XLAN 200 U/UTP AWG 24/1 FRNC Eca

Data cable

Category 5e and as class D up to 100 MHz

APPLICATION

Data cable for analogue and digital signal transmission in the frequency range up to 200 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring. Suitable for applications up to class EA (100 MHz). Approved for usage acc. to euroclass classification Eca.

Usage: IEEE 802.3 : Ethernet 10Base-T ; Fast Ethernet 100Base-T ; Gigabit Ethernet 1000Base-T
IEEE 802.5 : ISDN ; FDDI ; ATM

STANDARDS

EN 50288-3-1 ; EN 50173 ; EN 50174-2 ;
ISO/IEC 11801 2. edition ; IEC 61156-5 ;
TIA/EIA 568-B-2-1

CONSTRUCTION

Conductor: copper, solid, bare, AWG 24/1

Core insulation: PE

Core diameter: $0,96 \pm 0,05$ mm

Core identification: whbu-bu, whor-or, whgn-gn, whbn-bn (IEC 708-1)

Sheath material: halogen-free compound (FRNC)

Sheath color: grey, RAL 7035

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; EN 50399 ; EN 50575 ; EN 61034
EN 50267 ; IEC 60754-2 ; IEC 61034
EN 13501-6 class Eca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-404 (IIR 902, 4h at 70°C)

ELECTRICAL CHARACTERISTICS

loop resistance max. max. $190 \Omega / \text{km}$

Insulation resistance min. min. $5 \text{ G}\Omega \times \text{km}$
at +20°C

Operating capacity nom. $50 \text{ nF} / \text{km}$

Impedance $100 \Omega \pm 5 \Omega$

Test voltage $700 \text{ V} / \text{AC}$

Nominal voltage U_0/U 125 V

NVP ca. $0,66 \text{ c}$

Signal delay max. $510 \text{ ns}/100\text{m}$

Delay skew $< 25 \text{ ns}/100\text{m}$

Coupling attenuation $> 40 \text{ dB}$, Type 3

Separation class C

THERMAL & MECHANICAL PROPERTIES

Temperature range stationary -20°C to $+60^\circ\text{C}$

Temperature range during inst. 0°C to $+50^\circ\text{C}$

min. bending radius installed $4 \times$ outer diameter

min. bending radius moved $8 \times$ outer diameter

Maximum traction $80/160 \text{ N}$

Fire load $0,105/0,210 \text{ kWh/m}$

Dimension	Diameter appr.mm	Cable weight appr.kg/km	Copper index kg/km	Article number
AWG24/1	5.4	35	17	

Version: 11/2023

We reserve changes which serve technical progress • Price upon quantity-specific request

Transmission characteristics

The stated performance data are characteristic measurements.

f (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	EL-FEXT (dB/100m)	RL (dB)
	NOM	NOM	NOM	NOM	NOM
1	1,9	80	78	65	23
4	3,7	75	71	56	27
10	5,9	70	64	45	30
16	7,4	68	61	41	30
20	8,3	65	57	39	30
31,25	10,8	60	49	35	30
62,5	14,4	56	42	30	30
100	19,2	52	33	25	28
155	23,5	47	23	23	26
200	27,4	44	17	21	24