

VOKA-LAN XLAN 200

SF/UTP 4PR AWG 24/1

Data cable

Category 5e • Class D • 200 MHz



APPLICATION

Double-screened 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.

Use: IEEE 802.3, 10/100/1000Base-T; FDDI; ISDN; ATM

STANDARDS

ISO/IEC 11801 2nd edition; EN 50173-1; EN 50288-2-1; IEC 61156-5; TIA/EIA 568; IEC 60332-3-24; IEC 60754-2; EN 61034; IEC 61034 RoHS 2002/95/EC

CONSTRUCTION

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

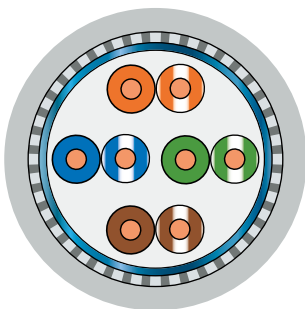
Core insulation: SFS-PE

Core identification: whbu-bu, whor-or, whgn-gn, whbn-bn

Core stranding: cores twinned to pairs, pairs layed up to cable core

Screen: insulating foil, plastic-laminated aluminium foil, drain wire optional; tinned copper wire braid

Sheath: PVC or halogen-free compound (FRNC); colour: grey RAL 7035; imprint: VOKA-LAN XLAN 200 SF/UTP 4PR AWG 24/1 Cat. 5e <00000m>



ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	19Ω/100 m
Insulation resistance min.	5 GΩ·x km
Char. impedance 1 – 100 MHz	100 ±15Ω
Transfer impedance max. (10 MHz)	30 mΩ/m
Mutual capacitance nom.	50 nF/km
Relative propagation velocity ca.	0,74 c
Screen attenuation ≤ 1000 MHz min.	60 dB
Test voltage	700 V-AC

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	0°C to +50°C
Temperature range stationary	-20°C to +60°C
Min. bending radius under tensile load	8 x diameter
Min. bending radius without tensile load	4 x diameter
Maximum traction	100 N

dimension	sheath thickness appr. mm	diameter appr. mm	cable weight ca. kg/km	copper index kg/km	calorific potential MJ/km
4x2xAWG 24/1	0,60	6,5	52	28	435

We reserve changes which serve technical progress • Copper base 100,00 €/ 100,00 kg
Price upon quantity-specific request • Also available as duplex version

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	78,1	68	24
4	3,7	75	71,3	56	30
10	5,6	70	64,4	46	34
16	7,2	68	60,8	43	35
20	7,9	65	57,1	41	34
31,25	10,3	60	49,7	36	33
62,5	14,4	56	41,6	32	31
100	18,2	50	31,8	26	28
155	19,9	45	25,1	24	26
200	24,2	42	17,8	22	24

ACR Powersum (dB/100 m)

