

VOKA-LAN XLAN 350

F/UTP 4PR AWG 24/1

Data cable

Category 6 • Class E • 350 MHz



APPLICATION

Data cable for analogue and digital signal transmission in the frequency range up to 350 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring.

Use: 10/100/1000Base-T; CDDI/TPDDI; ISDN; ATM 155 Mbit/s, TP_PMD 125 Mbit/s, Token Ring 4/16 Mbit/s; analogue telephony.

STANDARDS

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

CONSTRUCTION

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

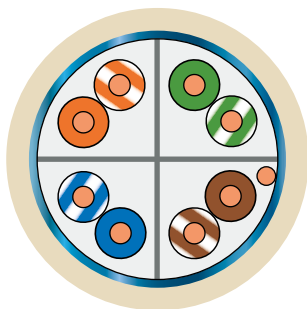
Core insulation: SFS-PE

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

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

Screen: plastic-laminated aluminium foil; drain wire

Sheath: PVC or halogen-free compound (FRNC); colour: grey RAL 7035; imprint: VOKA-LAN XLAN 350 F/UTP 4PR AWG 24/1 Cat.6 <00000m>



ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	19Ω/100 m
Insulation resistance min.	5 GΩ x km
Char. impedance 1 – 100 MHz	100 ±15 Ω
Char. impedance 100 – 250 MHz	100 ±22 Ω
Transfer impedance max. (10 MHz)	30 mΩ/m (nom.)
Mutual capacitance nom.	50 nF/km
Relative propagation velocity ca.	0,76 c
Screen attenuation ≤ 250 MHz min.	40 dB
Test voltage	700V-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	7,2	55	19	445

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	1,8	85	83,2	90	24
4	3,5	80	76,5	80	27
10	5,4	75	69,6	73	30
16	6,9	70	63,1	68	30
20	7,8	67	59,2	66	30
31,25	9,8	65	55,2	63	30
62,5	13,9	64	50,1	59	30
100	17,5	62	44,5	54	28
155	21,8	57	35,2	52	26
200	24,9	55	30,1	48	24
250	29,5	52	22,5	46	22
350	33,0	50	17,0	44	21

ACR Powersum (dB/100 m)

