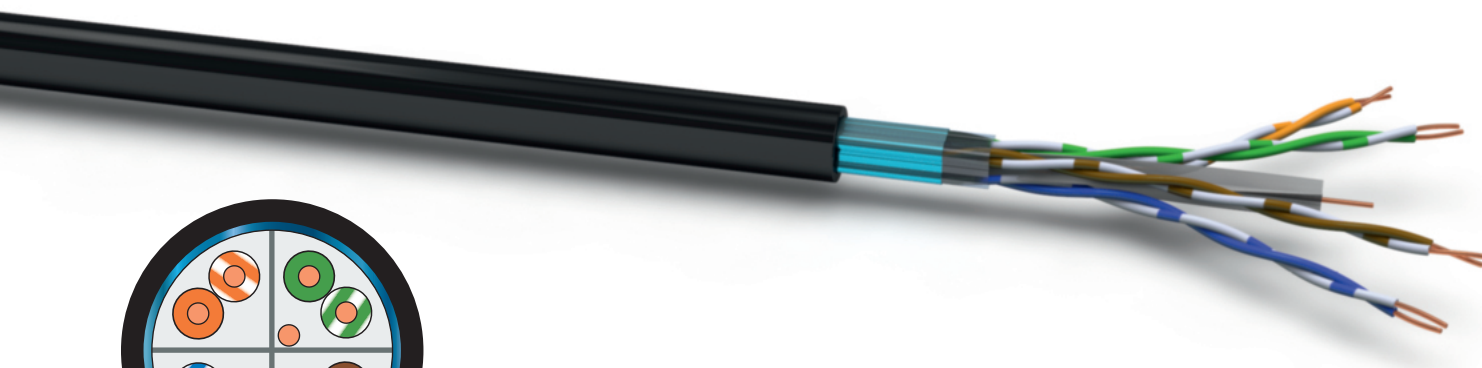
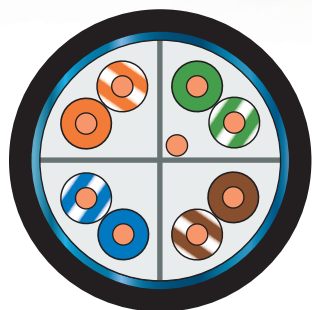




VOKA-LAN XLAN 350 Outdoor F/UTP 4PR AWG 24/1 PE Fca

Data cable for outdoor installation

Category 6 better than class E up to 250 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 in the open or underground. Suitable for applications up to class E (250 MHz). Approved for usage acc. to euroclass classification Fca.

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

STANDARDS

EN 50288-5-1 ; ISO/IEC 11801 2. edition ;
IEC 61156-5 Ed. 3.0 ; EN 50173 ; TIA/EIA-568-B.2-10

CONSTRUCTION

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

Core insulation: SFS-PE

Core diameter: $1,08 \pm 0,05$ mm

Core identification: wh-bu, wh-or, wh-gn, wh-bn
(IEC 708-1)

Screening: plastic-laminated aluminium foil

Sheath material: PE

Sheath color: black, RAL 9005

BEHAVIOR UNDER FIRE CONDITIONS

EN 61034 ; IEC 60754-2 ; IEC 61034

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2015/863/EU ; UV-resistant acc. to ISO 4892

ELECTRICAL CHARACTERISTICS

loop resistance max.	max. $170 \Omega / \text{km}$
Insulation resistance min.	min. $5 \text{ G}\Omega \times \text{km}$ at +20°C
Operating capacity	nom. $45 \text{ nF} / \text{km}$
Impedance	$100 \Omega \pm 5 \Omega$
Test voltage	700 V / AC
Nominal voltage U_0/U	125 V
NVP	ca. 0,74 c
Signal delay	max. $480 \text{ ns}/100\text{m}$
Delay skew	< $25 \text{ ns}/100\text{m}$
Coupling attenuation	> 55 dB, Type 2
Coupling resistance	< $100 \text{ m}\Omega/\text{m}$ at 10MHz, Grade 2
Separation class	C

THERMAL & MECHANICAL PROPERTIES

Temperature range stationary	up to +70°C
Temperature range during inst.	-15°C to +50°C
min. bending radius installed	5 x outer diameter
min. bending radius moved	10 x outer diameter
Maximum traction	100N
Fire load	0,185kWh/m

Dimension	Diameter appr.mm	Cable weight appr.kg/km	Copper index kg/km	Article number
AWG24/1	7.6	56	19	

Version: 03/2025

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) NOM	NEXT (dB) NOM	ACR (dB/100m) NOM	EL-FEXT (dB/100m) NOM	RL (dB) NOM
1	1,8	85	83	90	24
4	3,5	80	76	80	27
10	5,4	75	70	73	30
16	6,9	70	63	68	30
20	7,8	67	59	66	30
31,25	9,8	65	55	63	30
62,5	13,9	64	50	59	30
100	17,5	62	44	54	28
155	21,8	57	35	52	26
200	24,9	55	30	48	24
250	29,5	52	22	46	22
350	33	50	17	44	21