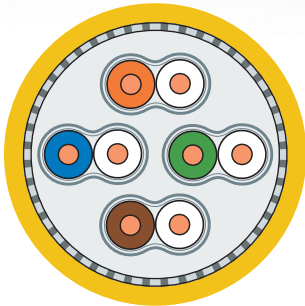




VOKA-LAN XLAN 1200 S/FTP AWG 22/1 FRNC Dca

Data cable

Category 7a better than class Fa up to 1000 MHz

APPLICATION

Data cable for analogue and digital signal transmission in the frequency range up to 1200 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring. Suitable for applications up to class FA (1000 MHz). Approved for usage acc. to euroclass classification Dca.

Usage: IEEE 802.3 : Ethernet 10Base-T ; Fast Ethernet 100Base-T ; Gigabit Ethernet 1000Base-T ; 10GBase-T
IEEE 802.5 : ISDN ; FDDI ; ATM ; Cable sharing
IEEE 802.3at : PoE / PoE+ / PoE 4P approved (class 1-4)

STANDARDS

EN 50288-4-1 ; EN 50288-9-1 ; IEC 61156-5 ; IEC 61156-7
EN 50173 ; EN 50174-2 ; ISO/IEC 11801 2. edition

CONSTRUCTION

Conductor: copper, solid, bare, AWG 22/1

Core insulation: SFS-PE

Core diameter: $1,47 \pm 0,05$ mm

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

Pair screen: plastic-laminated aluminium foil

Screening: tinned copper wire braid

Sheath material: halogen-free compound (FRNC)

Sheath color: yellow, RAL 1021

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; EN 60332-3-24 ; EN 50399 ; EN 50575 ;
EN 61034 ; EN 50267 ; IEC 60754-2 ; IEC 61034
EN 13501-6 class Dca-s1 d2 a1

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h at 70°C)

ELECTRICAL CHARACTERISTICS

loop resistance max.	max. $120 \Omega / \text{km}$
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. 0,79 c
Signal delay	max. $425 \text{ ns}/100\text{m}$
Delay skew	< $8 \text{ ns}/100\text{m}$
Coupling attenuation	> 85 dB, Type 1
Coupling resistance	< $5 \text{ m}\Omega/\text{m}$ at 10MHz, Grade 1
Separation class	D

THERMAL & MECHANICAL PROPERTIES

Temperature range stationary	-20°C to +60°C
Temperature range during inst.	0°C to +50°C
max. bending radius installed	4 x outer diameter
max. bending radius moved	8 x outer diameter
Maximum traction	120/240N
Fire load	0,170/0,340kWh/m

Dimension	Diameter appr.mm	Cable weight appr.kg/km	Copper index kg/km	Article number
AWG22/1	7.9	71	38	

Version: 01/2020

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	1,7	110	108	105	25
4	3,2	110	107	103	28
10	5,1	110	105	100	30
16	6,4	110	104	98	30
20	7,1	110	103	95	30
31,25	9	110	101	93	30
62,5	13,1	108	95	90	30
100	16,5	105	88	85	30
155	21,6	103	81	82	29
200	23,5	100	76	78	28
300	29,1	99	70	70	27
500	37	96	59	63	26
600	41,5	92	50	60	25
900	51,5	88	36	55	23
1000	54,9	85	30	52	22
1200	58,8	85	26	42	21

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