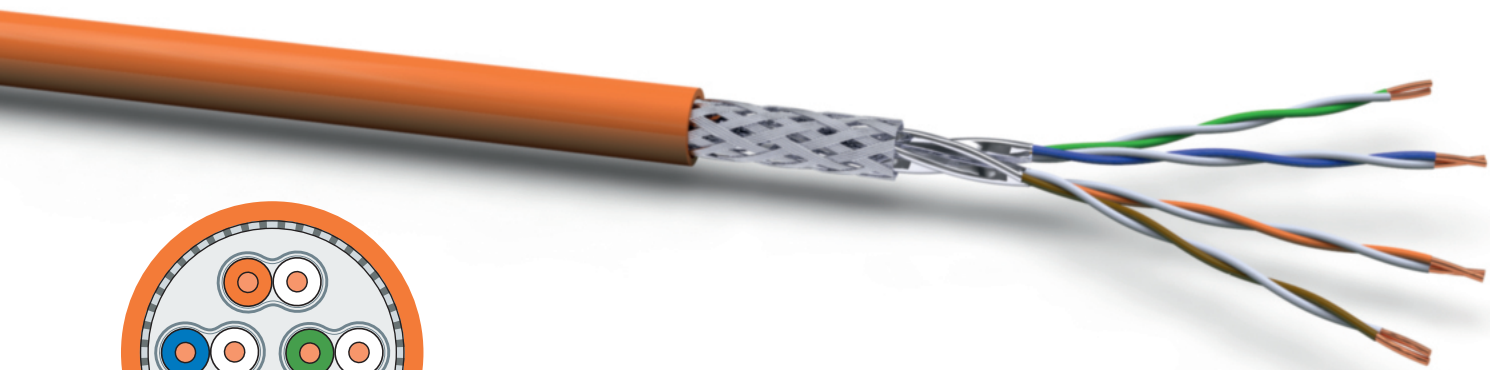
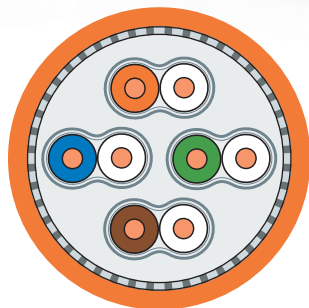




VOKA-LAN XLAN 1000 S/FTP AWG 23/1 FRNC Dca

Data cable

Category 7 better than class F up to 600 MHz

APPLICATION

Data cable for analogue and digital signal transmission in the frequency range up to 1000 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring. Suitable for applications up to class F (600 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+ suitable

STANDARDS

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

CONSTRUCTION

Conductor: copper, solid, bare, AWG 23/1

Core insulation: SFS-PE

Core diameter: $1,38 \pm 0,05$ 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: orange, RAL 2003

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 60811-404 (IRM 902, 4h at 70°C)

ELECTRICAL CHARACTERISTICS

loop resistance max.	max. $150 \Omega / \text{km}$
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	$> 85 \text{ dB}$, 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
min. bending radius installed	4 x outer diameter
min. bending radius moved	8 x outer diameter
Maximum traction	110/220N
Fire load	0,150/0,300kWh/m

Dimension	Diameter appr.mm	Cable weight appr.kg/km	Copper index kg/km	Article number
AWG23/1	7.6	65	34	
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	1,7	108	106	95	25
4	3,2	108	105	93	28
10	5,2	108	103	92	30
16	6,5	108	101	91	32
20	7,3	108	101	90	34
31,25	9,3	105	96	86	35
62,5	13,2	105	92	82	34
100	17	103	86	77	33
155	21,3	100	79	73	30
200	24,3	98	74	70	29
300	30	97	67	67	27
500	39,3	93	54	62	24
600	43,4	90	47	60	23
800	50,2	88	38	56	22
900	56	85	29	53	21
1000	58	82	24	50	20

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