



VOKA-LAN XLAN 600 flex S/FTP 4PR AWG 26/7 FRNC

flexible 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 600 MHz. It is designed for wiring in workplace areas for appliance connections or as switchboard cable in patch panels. Suitable for applications up to class F (600 MHz)

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 suitable

STANDARDS

EN 50288-4-2 ; EN 50173 ; EN 50174-2 ;
ISO/IEC 11801 2. edition ; IEC 61156-6

CONSTRUCTION

Conductor: copper strand, bare, AWG 26/7

Core insulation: SFS-PE

Core diameter: 1,04 ± 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: grey, RAL 7035

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; EN 60332-3-24 ; EN 61034 ; EN 50267
IEC 60754-2 ; IEC 61034

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-404 (IRM 902, 4h at 70°C)

ELECTRICAL CHARACTERISTICS

loop resistance max.	max. 280 Ω / km
Insulation resistance min.	min. 5 GΩ x km at +20°C
Operating capacity	nom. 45 nF / km
Impedance	100 Ω ± 5 Ω
Test voltage	700 V / AC
Nominal voltage U_0/U	125 V
NVP	ca. 0,79 c
Signal delay	max. 425 ns/100m
Delay skew	< 8 ns/100m
Coupling attenuation	> 80 dB, Type 1
Coupling resistance	< 10 mΩ/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	90N
Fire load	0,100kWh/m

Dimension	Diameter appr.mm	Cable weight appr.kg/km	Copper index kg/km	Article number
AWG26/7	6.1	41	22	

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	0,28	100	100	99	25
4	0,55	100	100	97	29
10	0,85	100	99	95	33
16	1,05	100	99	93	33
20	1,2	100	99	90	33
31,25	1,5	100	98	85	33
62,5	2,1	100	98	76	31
100	2,7	98	95	72	30
200	3,85	94	90	67	28
300	4,7	90	85	60	27
500	5,7	84	78	58	26
600	6,75	82	75	55	25

