



VOKA-ETH 200 Flex SF/UTP 4PR AWG 26/7 PUR

Data cable for industry and mechanical engineering
Category 5e better than class D up to 100 MHz

APPLICATION

Data cable for analogue and digital signal transmission in industrial environments in the frequency range up to 200 MHz. Suitable for applications up to class D (100 MHz). With link lengths up to 90 m. Very robust due to the PUR sheath.

Usage: IEEE 802.3 : Ethernet 10Base-T ; Fast Ethernet 100Base-T ; Gigabit Ethernet 1000Base-T
IEEE 802.5 : 16 MB; ISDN ; FDDI ; ATM

STANDARDS

EN 50288-2-2 ; EN 50173 ; ISO/IEC 11801 2. edition ; IEC 61156-6 ; TIA/EIA-568-B

CONSTRUCTION

Conductor: Copper strand, bare, AWG 26/7

Core insulation: PE

Core diameter: $0,96 \pm 0,05$ mm

Core identification: whbu-bu, whor-or, whgn-gn, whbn-bn (IEC 708-1)

Screening: plastic-laminated aluminium foil, tinned copper wire braid

Sheath material: PUR FHF

Sheath color: green, RAL 6018

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586

CHEMICAL PROPERTIES

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

ELECTRICAL CHARACTERISTICS

loop resistance max.	max. 290 Ω / km
Insulation resistance min.	min. 5 G Ω x km at +20°C
Operating capacity	nom. 50 nF / km
Impedance	100 $\Omega \pm 5 \Omega$
Test voltage	700 V / AC
Nominal voltage U_0/U	125 V
NVP	ca. 0,66 c
Signal delay	max. 510 ns/100m
Delay skew	< 25 ns/100m
Coupling attenuation	> 70 dB, Type 1
Coupling resistance	< 50 m Ω /m at 10MHz, Grade 1

THERMAL & MECHANICAL PROPERTIES

Temperature range stationary	-30°C to +80°C
Temperature range during inst.	-10°C to +50°C
min. bending radius installed	5 x outer diameter
min. bending radius moved	10 x outer diameter
Maximum traction	100N

Dimension	Diameter appr.mm	Cable weight appr.kg/km	Copper index kg/km	Article number
AWG26/7	6.0	40	24	

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	0,3	73	73	68	23
4	0,58	65	64	58	26
10	0,93	62	61	51	30
16	1,19	60	59	45	30
20	1,32	58	57	42	30
31,25	1,68	55	53	38	30
62,5	2,43	50	48	34	30
100	3,12	48	45	30	28
155	3,52	46	42	27	26
200	3,9	45	41	23	24



Version: 11/2023

We reserve changes which serve technical progress • Price upon quantity-specific request

