



## \* ) \$%\$\$%&L ! Highflex SK SF/UTP 4PR AWG 26/19 PUR

Industrial ethernet data cable  
 Categorie 5e better than class D up to 100 MHz

### APPLICATION

Data cable for analogue and digital signal transmission for ultraflexible wiring in industrial environments. Specially optimised for high mechanical loads as well as for use in drag chains.

**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

### CONSTRUCTION

- Conductor:** copper strand, bare, AWG 26/19
- Core insulation:** PE
- Core diameter:** 1,00 ± 0,05 mm
- Core identification:** whbu-bu, whor-or, whgn-gn, whbn-bn (IEC 708-1)
- Screening:** screening foil (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. 280 Ω / km
Insulation resistance min.	min. 5 GΩ x km at +20°C
Operating capacity	nom. 50 nF / km
Impetance	100 Ω ± 5 Ω
Test voltage	700 V / AC
Nominal voltage U <sub>0</sub> /U	125 V
NVP	ca. 0,66 c
Signal delay	max. 510 ns/100m
Delay skew	< 20 ns/100m
Coupling attenuation	> 80 dB, Type 1
Coupling resistance	< 30 mΩ/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 diameter
min. bending radius moved	10 x diameter
min. bending radius chain	10 x diameter
max. bending cycles	> 5 Mio.
Maximum traction	100N

Dimension	Diameter appr.mm	Cable weight appr.kg/km	Copper index kg/km	Article number
AWG26/19	7.2	65	27	



Tel. +31 (0) 183-617 109

Mail: info@heliacab.nl

Website: www.heliacab.nl

**Transmission characteristics**

The stated performance data are characteristic measurements.

<b>f</b> (MHz)	<b>Attenuation</b> (dB/100m)	<b>NEXT</b> (dB)	<b>ACR</b> (dB/100m)	<b>EL-FEXT</b> (dB/100m)	<b>RL</b> (dB)
	<b>NOM</b>	<b>NOM</b>	<b>NOM</b>	<b>NOM</b>	<b>NOM</b>
1	0,31	73	73	68	23
4	0,59	65	64	58	26
10	0,93	62	61	51	28
16	1,19	60	59	45	28
20	1,33	58	57	42	28
31,25	1,68	55	53	38	28
62,5	2,44	50	48	34	27
100	3,15	48	45	30	26
155	3,57	46	42	27	25
200	4,12	45	41	23	24

