

VOKA-MLAN flex 1000

S/FTP 4PR AWG 26/7 FRNC

Marine use • 1000 MHz



APPLICATION

Flexible data cable for analogue and digital signal transmission for workplace wiring in environments with increased electrical and mechanical requirements as well as for use on ships and offshore. With GL rating.

Use: IEEE 802.3: 10/100/1000/10GBase-T; IEEE 802.5: FDDI, ISDN, ATM

STANDARDS

GL 86747-10HH, ISO/IEC 11801, 2nd edition, EN 50173-1
IEC 61156-6 EN 50288-4-2; IEC 60332-1; IEC 60332-3-22
IEC 60754-2; EN 61034 IEC 61034; RoHS 2002/95/EC

CONSTRUCTION

Conductor: copper strand, tinned, AWG 26/7

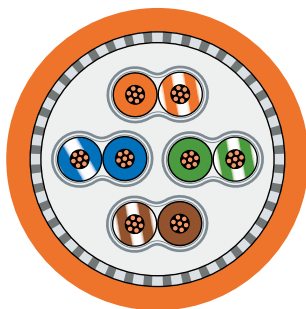
Core insulation: SFS-PE

Core identification: whbu-bu, whor-or, whgn-gn, whbn-bn

Core stranding: cores twisted to layers

Screen: pair screen (PIMF) (plastic-laminated aluminium foil); tinned copper wire braid

Sheath: halogen-free compound (FRNC); colour: orange RAL 2003; imprint: VOKA-MLAN Patch 1000 S/FTP 4PR AWG 26/7 FRNC Cat. 7 <00000m>



ELECTRICAL CHARACTERISTICS

Loop resistance max. (acc. to VDE 0812)	29 Ω/100 m
Insulation resistance min. (20°C)	2 GΩ x km
Char. impedance 1 – 100 MHz	100 ±15 Ω
Char. impedance 100 – 250 MHz	100 ±22 Ω
Char. impedance 250 – 1000 MHz	100 ±25 Ω
Transfer impedance max. (10 MHz)	10 mΩ/m
Mutual capacitance nom.	45 nF/km
Relative propagation velocity ca.	0,76 c
Screen attenuation ≤ 1000 MHz min.	60 dB
Test voltage	700 V-AC

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	0°C to +50°C
Temperature range stationary	-20°C to +60°C
Min. bending radius under tensile load	8 x diameter
Min. bending radius without tensile load	4 x diameter
Maximum traction	90 N

dimension	sheath thickness appr. mm	diameter appr. mm	cable weight ca. kg/km	copper index kg/km	calorific potential MJ/km
4x2xAWG 26/7	0,60	6,3	41	24	350

We reserve changes which serve technical progress • Copper base 100,00 €/ 100,00 kg
Price upon quantity-specific request • Also available as duplex version

Transmission characteristics

The stated performance data are characteristic measurements.

f (MHz)	Attenuation (dB/10 m)	NEXT (dB)	ACR (dB/10 m)	EL-FEXT (dB/10 m)	RL (dB)
	NOM	NOM	NOM	NOM	NOM
1	0,28	95	95,0	95	23
4	0,55	95	94,5	93	27
10	0,85	95	94,1	90	30
16	1,05	95	94,0	81	30
20	1,20	92	90,8	77	30
31,25	1,50	90	88,5	75	30
62,5	2,10	88	85,9	70	30
100	2,70	86	83,3	58	28
200	3,85	84	80,2	50	26
300	4,70	82	77,3	47	24
400	5,10	80	74,9	45	23
500	5,70	78	72,3	42	22
600	6,75	75	68,3	40	21
800	7,90	73	65,1	37	19
900	8,60	72	63,4	36	18
1000	9,15	70	60,2	34	17