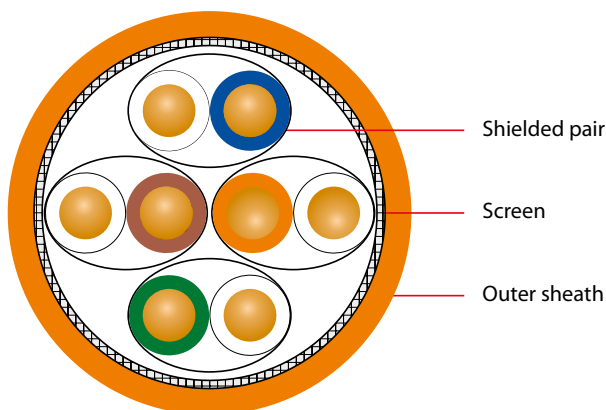


XLAN 1000

S/FTP 4PR AWG 23/1

Category 7a • 1000 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.

Use: IEEE 802.3; 10/100/1000/10GBase-T; FDDI, broadband, video, ISDN, ATM, Multimedia, PoE

NORMEN

EN 50288-4-1; IEC 61156-5; EN 50173-1; ISO/IEC 11801 2nd edition; IEC 60332-1; IEC 60332-3-22; IEC 60754-2; EN 61034; IEC 61034 RoHS 2002/95/EC

CONSTRUCTION

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

Core insulation: SFS-PE

Core identification: wh-bu, wh-or, wh-gn, wh-bn

Core stranding: cores twisted to layers

Shielded pairs: each pair one layer plastic laminated aluminium foil; drain wire optional

Screen: tinned copper wire braid

Sheath: PVC or halogen-free compound (FRNC); colour: orange RAL 2003

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	14.5 Ω/100 m
Insulation resistance min.	5 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)	3 mΩ / m
Mutual capacitance nom.	45 nF/km
Relative propagation velocity approx.	0.78 c
Screen attenuation ≤ 1000 MHz min.	85 dB
Test voltage	700 V-AC

Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km	Calorific potential MJ/km
4 x 2 x AWG23	0.60	7.6	64	34	610

Transmission characteristics

The stated performance data are characteristic measurements.

f MHz	Attenuation nom. dB/100m	NEXT nom. dB	ACR nom. dB/100m	EL-FEXT nom. dB/100m	RL nom. dB
1	1.7	105	103	95	25
4	3.2	105	102	93	28
10	5.2	105	100	92	30
16	6.5	105	98	91	32
20	7.3	105	98	90	34
31.25	9.4	105	96	86	35
62.5	13.6	103	89	82	34
100	17	100	83	77	33
155	22.2	98	76	73	30
200	24.3	95	71	70	29
300	30.2	93	73	67	27
400	35.2	90	55	64	26
500	39.1	87	48	62	24
600	43.5	85	41	60	23
800	50	83	33	56	22
900	55.2	81	26	53	21
1000	58.1	80	22	50	20

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	105 N

Subject to changes due to technical progress and error



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