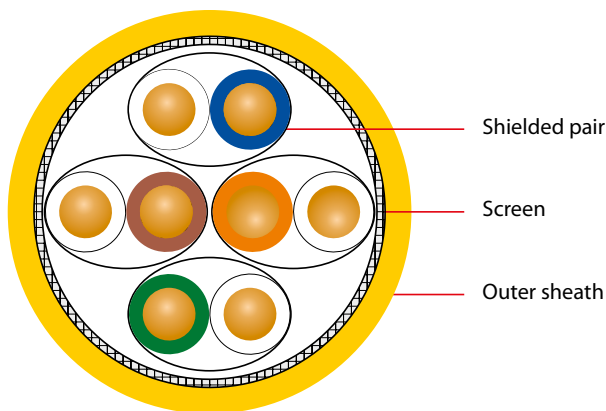


# XLAN 1500 S/FTP 4PR AWG 22/1

Category 7a · 1500 MHz



## APPLICATION

Data cable for analogue and digital signal transmission in the frequency range up to 1500 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 22/1

**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: yellow RAL 1021

## ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	11.5 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)	5 mΩ / m
Mutual capacitance nom.	45 nF/km
Relative propagation velocity approx.	0,79 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 AWG22	0.60	8.4	73	42	705

## 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	105	25
4	3.2	105	102	103	28
10	5	105	100	100	30
16	6.3	105	99	98	30
20	7	105	98	95	30
31.25	8.9	105	96	93	30
62.5	13	105	92	90	30
100	16.2	102	86	85	30
155	21.2	100	79	82	29
200	23	98	75	78	28
300	28.5	96	67	70	27
500	36.2	91	55	63	26
600	40.7	88	47	60	25
1000	55	78	23	52	21
1200	59.7	76	16	42	19
1300	61	74	13	40	18
1400	62.8	73	10	35	17
1500	64.5	72	8	30	14

## 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	150 N

Subject to changes due to technical progress and error



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