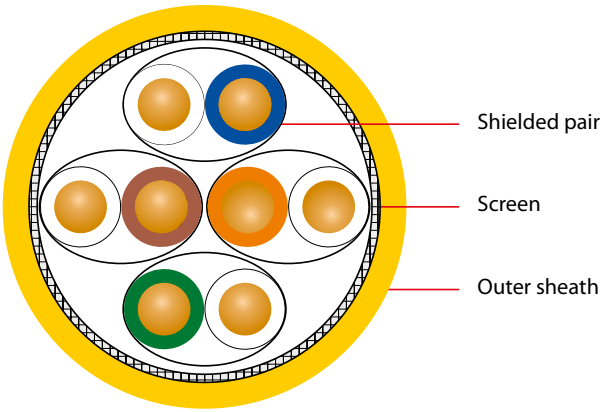
XLAN 1500 B2ca
S/FTP 4PR AWG 22/1

Category 7A · 1500 MHz



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	–	8.5	82	40	720

APPLICATION

Data cable for primary, secondary and horizontal cabling up to 1500 MHz. Category 7A; applications up to Class FA (1000 MHz).
FRNC sheath; CPR B2ca-s1 d1 a1.
Ethernet 10/100/1000/10GBase-T; PoE to IEEE 802.3at.

STANDARDS

EN 50288-4-1; EN 50173; EN 50174-2; ISO/IEC 11801; IEC 61156-5
EN 60332-1-2; EN 60332-3-24; EN 50399; EN 50575; EN 13501-6
EN 61034; EN 50267; IEC 60754-2; IEC 61034; RoHS 2015/863/EU

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 into pairs
Shielded pairs: plastic-laminated aluminium foil around each pair

Screen: tinned copper wire braid
Sheath: halogen-free compound (FRNC);
colour: yellow RAL 1021

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	115 Ω/km
Insulation resistance min. (20 °C)	5 GΩ x km
Characteristic impedance	100 ±5 Ω
Rated voltage	125 V
Propagation delay	max. 425 ns/100 m
Transfer impedance max. (10 MHz)	< 5 mΩ/m
Mutual capacitance nom.	45 nF/km
Relative propagation velocity approx.	0,79 c
Coupling attenuation	> 85 dB (Type 1)
Test voltage	700 V-AC

Transmission characteristics

The stated performance data are typical measured values.

f MHz	Attenuation nom. dB/100m	NEXT nom. dB	ACR nom. dB/100m	EL-FEXT nom. dB/100m	RL nom. dB
1	1.7	110	108	105	25
4	3.2	110	107	103	28
10	5	110	105	100	30
16	6.3	110	104	98	30
20	7	110	103	95	30
31.25	8.9	110	101	93	30
62.5	13	110	97	90	30
100	16.2	108	92	85	30
155	21.2	105	84	82	29
200	23	102	79	78	28
300	28.5	100	71	70	27
500	36.2	96	60	63	26
600	40.7	93	52	60	25
1000	54.2	88	34	52	24
1200	57.9	85	27	42	23
1500	67.2	83	16	30	21

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	0° C to +50 °C
Temperature range stationary	-20 °C to +60 °C
Min. bending radius, flexible	8 x diameter
Min. bending radius, fixed	4 x diameter
Maximum traction	130 N

Subject to changes due to technical progress and error

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