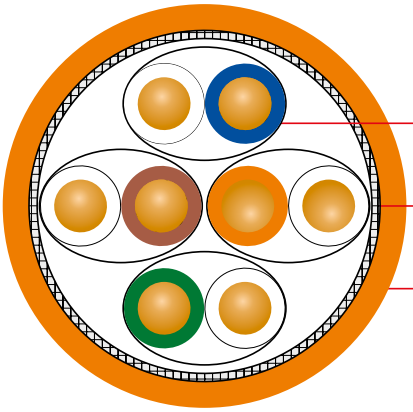
XLAN 1000 B2ca
S/FTP 4PR AWG 23/1

Category 7 · 1000 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 AWG23	–	7.9	68	33	576



APPLICATION

Data cable for primary, secondary and horizontal cabling up to 1000 MHz. Category 7; applications up to Class F (600 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 23/1
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: orange RAL 2003

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	150 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	108	106	95	25
4	3.2	108	105	93	28
10	5.2	108	103	92	30
16	6.5	108	101	91	32
20	7.3	108	101	90	34
31.25	9.3	105	96	86	35
62.5	13.2	105	92	82	34
100	17	103	86	77	33
155	21.3	100	79	73	30
200	24.3	98	74	70	29
300	30	97	67	67	27
500	39.3	93	54	62	24
600	43.4	90	47	60	23
800	50.2	88	38	56	22
900	56	85	29	53	21
1000	58	82	24	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, flexible	8 x diameter
Min. bending radius, fixed	4 x diameter
Maximum traction	110 N

Subject to changes due to technical progress and error

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