

7297B

Cat6a S/FTP FRLSZH B2ca



Event[®] install



Application

This cable is used in data communication networks with 500 MHz bandwidth capacity where Low Smoke Zero Halogen is required.

- Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
- IEEE 802.5 16 MB; ISDN; FDDI; ATM
- Power over Ethernet (PoE) / PoE+

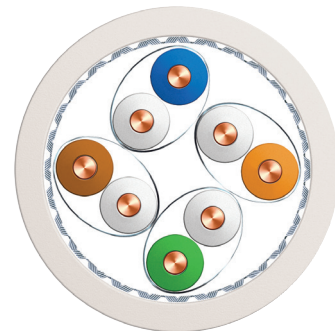
Cable Design

Conductor Solid bare copper wire, Ø 0.56 mm (AWG23/1)
Insulation Skin-foam-skin PE, Ø 1.33 ± 0,05 mm
Twisting 2 cores to the pair
Pair screen Aluminium/Mylar tape
Cable lay up 4 pairs (PiMF) to the core
Overall screen Tinned copper wire braid ≥ 40% coverage
Sheath FRLSZH, Ivory
Overall Diameter Ø 7,50 ± 0,5 mm

Pair Identification..... 1 - White/Blue, 2 - White/Orange
3 - White/Green, 4 - White/Brown

Standards

- ISO/IEC11801
- TIA-568-C.2
- CPR Class - B2ca



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Electrical Characteristics (20°C)

Impedance 1 - 250 MHz	100 ± 15 Ohm
Impedance 250 - 500 MHz	100 ± 22 Ohm
Delay Skew 1 - 500 MHz	≤ 45 ns/100m
Unbalanced-to-ground capacitance max.	330 pF/100m
DC Resistance max.	9,38 Ohm/100m
DC Conductor Resistance Unbalance max.	5 %

Technical Performance 100m

Frequency	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	≥ dB	≥ dB	≥ dB
1	20	-	74,3	570	72,3	67,8	64,8
4	23	3,8	65,3	552	63,3	55,8	52,8
8	24,5	5,3	60,8	546,7	48,8	49,7	46,7
10	25	5,9	59,3	545,5	57,3	47,8	44,8
16	25	7,5	56,2	543	54,2	43,7	40,7
20	25	8,4	54,8	542,1	52,8	41,8	38,8
25	24,3	9,4	53,3	541,2	51,3	39,8	36,8
31,25	23,6	10,5	51,9	540,4	49,9	37,9	34,9
62,5	21,5	15,0	47,4	538,6	45,4	31,9	28,9
100	20,1	19,1	44,3	537,6	42,3	27,8	24,8
200	18	27,6	39,8	536,5	37,8	21,8	18,8
250	17,3	31,1	38,3	536,3	36,3	19,8	16,8
300	16,8	34,3	37,1	536,1	35,1	18,3	15,3
500	15,2	45,3	33,8	535,6	31,8	13,8	10,8