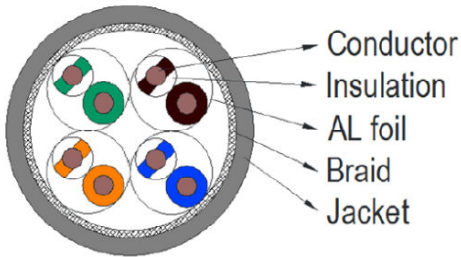




## CATEGORY 7 S/FTP SOLID CABLE 4 PAIR (AWG 23)



Wave Cables Cat. 7 S/FTP cables are designed to meet the most advanced S/FTP cable applications. Tested to 600MHz, the performance of this cable meets the requirements for PS-NEXT, attenuation, return loss, attenuation-to-crosstalk ratio (ACR) and impedance, making it ideal for high-end transmission links supporting today's networking protocols.



### CONSTRUCTION

23AWG bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit jacketed with flame-retardant PVC. Plastic cross in the middle separates pairs from each other.

### APPLICATIONS

Category 7 S/FTP cable is intended for high speed data applications including: IEEE 802.3 1000BASE-T, 10BASE-T, 155 Mb/s ATM, 4/16 Mb/s Token Ring

### FEATURES

- Specified and tested to 600 MHz
- Small, round design pairs

### BENEFITS

- Reliably supports today's network protocols
- Reduced installation costs and maintenance
- Lower Bit Error Rates, increases network efficiency and uptime

### Construction

Twisted Pairs Color Code:  
 PAIR 1: Blue, White/Blue  
 PAIR 2: Orange, White/Orange  
 PAIR 3: Green; White/Green  
 PAIR 4: Brown; White/Brown

### Component

Conductor: AWG 23, 0.565 ± 0.005mm  
 Insulators: Foam PE (1.335mm, Skin-Foam-Skin)  
 Foil screen: Aluminium/PET, 50/12µm  
 Braid: Copper Clad with Steel (0.1mm x 4 x 16)  
 Jacket: 75°C PVC (Min. Thickness 0.58, Min. Avg. thickness 0.51)  
 Jacket Diameter: 7.3 ± 0.2mm

### Marking

Wave Cables S/FTP SOLID CABLE 23AWG 4PR CAT.7

### Physical Characteristics

Tensile strength: Max. 110N  
 Temperature Range:

- Installation Temperature 0 to 50°C
- Storage Temperature -20 to 70°C
- Operation Temperature -10 to 60°C

### Electric Characteristics

Dielectric strength: DC 1 KV / 60sec. or AC 0.7 KV / 2sec.  
 Transfer Impedance (Max.): 100mOhms @ 100MHz  
 Coupling Attenuation (<1GHz):55dB  
 DC Resistance Unbalance: 4% max.  
 Characteristic Impedance: 100±5 Ohms 1~100MHz  
 Propagation Delay skew: 20ns/100m max.  
 Velocity of Propagation: 80%



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Transmission Characteristics

FREQ	Attenuation	RL	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	Prop. DELAY
MHz	max. dB/100m	min. dB at 20°C	min. dB	min. dB	min. dB	min. dB	max. ns at 20°C
1	2.0	20.0	78.0	75.0	78.0	75.0	570
4	3.7	23.0	78.0	75.0	78.0	75.0	552
8	5.2	24.5	78.0	75.0	78.0	75.0	547
10	5.9	25.0	78.0	75.0	78.0	75.0	545
16	7.4	25.0	78.0	75.0	77.9	74.9	543
20	8.3	25.0	78.0	75.0	76.9	73.9	542
25	9.3	24.3	78.0	75.0	75.9	72.9	541
31	10.4	23.6	78.0	75.0	75.0	72.0	540
63	14.9	21.5	75.5	72.5	71.8	68.8	539
100	19.0	20.1	72.4	69.4	69.7	66.7	538
200	27.5	18.0	67.9	64.9	66.5	63.5	537
250	31.0	17.3	66.4	63.4	65.5	62.5	536
300	34.2	16.8	65.2	62.2	64.6	61.6	536
400	40.0	15.9	63.4	60.4	63.3	60.3	536
500	45.3	15.2	61.9	58.9	62.2	59.2	536
600	50.1	14.7	60.7	57.7	61.3	58.3	535