

Copper Structured Cabling and Accessories

Category 7 S/FTP 4 Pair Cable

Category 7 S/FTP cables exceed Category 7/ Class F specification maximizing the user's return on investment, by extending the life of the system. It is tested to 600MHz frequency range and designed to support 10 Gigabyte applications.

Data integrity is one of the most essential network requirements for many corporations, especially those located in environments that are prone to noise and electromagnetic interference such as industrial facilities and airports, as well as those running critical systems such as military installations and hospitals. S/FTP (Foil Twisted Pair - Shielded) cabling systems are installed to protect data from potentially corrupting electromagnetic interference (EMI) and improved Alien Cross talk performance.



Complied with or exceeds Standard:

- ISO/IEC-11801 2nd Edition Class F
- IEC 61156-5:2002 Category 7
- TIA /EIA 568 B .2
- LSZH: IEC 60332-1, IEC 60754, IEC 61034

Features & Benefits:

- UL & 3P certified
- 23AWG insulated copper conducts
- All cables meet or exceed the requirement proposed by TIA /EIA 568 B .2 ,ISO/IEC 11801 Category 7
- Can be used with CAT6A components to create a full CAT7 link
- Striped cross frameworks to match corresponding pairs
- Ultra smooth jacket easy to pull in tight spaces
- 4 twisted-pair cable
- For 10 Gigabit ether net applications

MATERIAL CONSTRUCTION & DESIGN:

Conductor Material:	Bare Copper
Conductor Size:	23 AWG
Conductor Diameter:	0.57mm±0.022mm (D)
Conductor Construction:	Solid
Insulation Material:	SFS PE
Insulation Diameter:	1.43 ±0.06 mm
Conductor Unit Identification:	Solid/Stripe

Color Code:	Per TIA/EIA 568-B
Screening Material:	Aluminium Foil
Screening Design:	100% Coverage
Conductor Unit Lay-Up:	Pairs
Braid Shield Material:	Tinned Copper, 0.10mm
Braid Coverage:	More than 40%
Total Number of Wires:	8
Rip Cord:	optional
Outer Jacket Material:	PVC or LSZH
Outer Jacket Thickness	8.0 mm
Outer Jacket Color:	Per Requirement (The default is grey)
Marking:	Per Requirement

ELECTRICAL, MECHANICAL & TRANSMISSION CHARACTERISTICS

Impedance:	100 Ω
Coupling Attenuation:	85 dB min @ 30-100 MHz 85-20Log(f/100) @100-600 MHz
Max. DC Resistance :	73 Ω/km@20°C
Max. Resistance Unbalance:	2 %
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	78 % nom.
Propagation Delay Skew:	25 ns/100m max.
Dielectric Strength:	1.5KV/minute
Dielectric Strength to Shield:	1.5KV/minute
Min. Insulation Resistance :	5 GΩ•km
Min. Bend Radius:	85 mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-20 °C
Max. Tensile Strength - Short Term:	130 N

ELECTRICAL PERFORMANCE CHARACTERISTICS

Cat7. Screened Horizontal Cables*						
Frequency (MHz)	Attenuation (dB/100m@20°C)	NEXT (dB)	PS NEXT (dB)	Return Loss (dB)	ELFEXT (dB)	PSELFEXT (dB)
1.0	1.6	97.0	96.0	28.0	88.0	85.0
4.0	3.3	97.0	96.0	30.0	88.0	85.0
10.0	4.5	97.0	96.0	34.0	88.0	85.0
16.0	6.0	97.0	96.0	34.0	88.0	85.0
20.0	7.0	97.0	96.0	34.0	88.0	85.0
31.25	8.0	97.0	96.0	32.1	88.0	85.0
62.5	12.0	97.0	96.0	30.0	84.0	80.0
100.0	16.0	96.0	94.0	28.0	79.0	76.0

*Supplied cables meet the minimum Cat. 7 transmission requirements as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	LENGTH
C7-1-X	Category 7 S/FTP 4 Pair Cable PVC	305 m
C7-2-X	Category 7 S/FTP 4 Pair Cable LSZH	305 m

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)

PACKING INFORMATION

Cable Length (Meter)	Packing Mode	N.W (kg)	G.W (kg)	Dimension (cm)
305	Ply Reel	21.5	23.5	42.0 x 42.0 x 26.0
1000	Ply Reel	68.5	75.0	47.0 x 47.0 x 42.0