

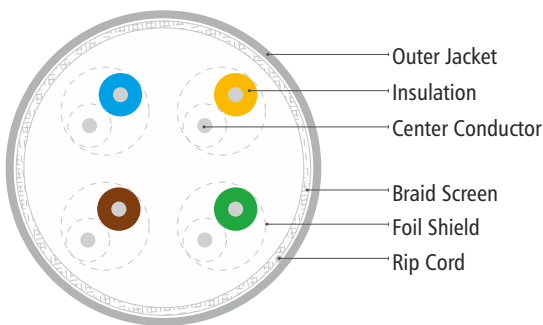
CATEGORY 6 S/FTP 4 PAIR CABLE



PRODUCT OVERVIEW

Accell Category 6 S/FTP cables exceed Category 6 / Class E specification. It is tested to 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications upto 100m. Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to F/FTP (Foiled Twisted Pair) cabling systems. S/FTP (Twisted Pair – Overall shield and Individual Foil shield) cabling systems are installed for improved Alien Cross talk performance.

CABLE DESIGN



COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications
 ANSI/TIA-568-C.2 Category 6
 ISO/IEC-11801, Class E
 IEC 61156-5: Category 6
 LSZH: IEC 60332-1, IEC 60754, IEC 61034

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.57 mm, 23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.36 mm
Conductor Unit Identification	Solid/Stripe
Rip Cord	Yes
Drain Wire	N/A
Colour Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminium Foil
Ind. Shield Design	100 % Coverage
Conductor Unit lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinned Copper, 0.10 mm

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MATERIAL CONSTRUCTION & DESIGN

Braid Coverage	45 % nom.
Total Number of Wires	8
Outer Jacket	LSZH Low Smoke Zero Halogen or PVC
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 7.9±0.5 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 Ω ±15
Coupling Attenuation	40 dB min @ 30-100 MHz 40-20 Log (f/100) @100-300 MHz
DC Resistance	73 Ω/km norm.
Max. Resistance Unbalance	4 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Propagation Delay Skew	35 ns/100m max.
Velocity of Propagation	69 %
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 GΩ•km
Max.Tensile Strength - Short Term	110 N
Transfer Impedance	1000 mΩ/m max @ 100 MHz
Min. Bend Radius	53.6 mm
Operating Temperature Range	-10 °C +65 °C

TRANSMISSION PERFORMANCE

Cat. 6 screened Pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1	20	80.0	78.0	27.0	81.8	77.8
4	3.8	75.0	72.8	30.0	76.8	73.8
10	6.0	71.0	69.0	30.0	70.0	67.8
20	8.5	62.0	60.2	30.0	58.8	55.8
31.25	10.4	60.9	58.9	28.6	56.8	53.3
100	19.8	54.0	52.0	26.0	47.8	44.8
150	24.7	50.7	48.7	25.1	43.3	40.3
200	29.0	48.1	46.1	23.8	38.8	35.8
250	32.8	46.3	44.3	22.0	36.8	33.8

*Supplied cables meets Cat. 6 min. transmission requirements as per IEC 61156-5 Ed. 2

CATEGORY 6 U/UTP 4 PAIR EXTERNAL CABLE

ORDERING INFORMATION

Part Number	Description	Standard Length
ADC225104X	Category 6 S/FTP 23 AWG 4 Pair Cable PVC	305 mtr
ADC225204X	Category 6 S/FTP 23 AWG 4 Pair Cable LSZH	305 mtr

X: BK(Black)

PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
ADC225104X	Plywood Reel/Ctn	17.1	18.7	420 x 420 x 260
ADC225204X	Plywood Reel/Ctn	17.5	19.0	420 x 420 x 260