

CATEGORY 6A F/FTP 4 PAIR CABLE



Hosiwell Category 6A F/FTP cables exceed Category 6A / Class EA specification. It is tested to 500 MHz frequency range and designed to support 10 Gigabyte applications to full 100 m.



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 cabling systems. F/FTP (Twisted Pair – overall and individual Foil shield) cabling systems are installed for improved Alien Cross talk performance.



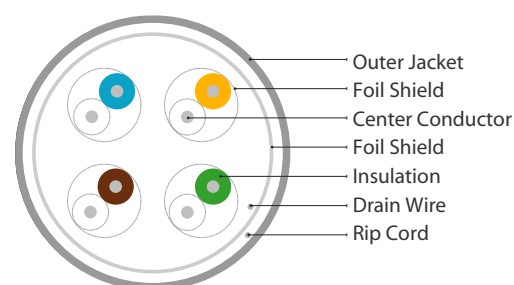
MATERIAL CONSTRUCTION & DESIGN

Conductor	Bare Copper 23 AWG Solid
Insulation Material	SFS PE
Insulation O.D.	1.38 mm norm.
individual Shield	Aluminium/Polyester Foil 100%Coverage
Overall Shield	Aluminium/Polyester Foil 100%Coverage
Overall Drain-Wire	Tinned Copper 0.40 mm Solid
Total number of Wires	8
Outer Jacket	LSZH
Outer Jacket Ex. Diameter	7.8 ± 0.5 mm
Rip Cord	Yes

DELTA Certificate to Category 6A Component level (No 2016-318)

ELECTRICAL & MECHANICAL CHARACTERISTICS

CHARACTERISTIC	VALUE
Frequency Range	1-500 MHz
Impedance	100 Ω±15
DC Resistance	73 Ω/km nom.
Max. Resistance Unbalance	2%
Capacitance Unbalance	1.2 pF/m max
Velocity of Propagation	72.5 % nom.
Propagation Delay Skew	45 ns/100m max.
Dielectric Strength	2.5 KV d.c. for 2 s
Min. Insulation Resistance	5 GΩ·km
Transfer Impedance	1000 mΩ/m max. @ 100 MHz.
Max. Tensile Strength - Short Term	130 N
Min. Bend Radius	78 mm
Operating Temperature Range	-20 °C +60 °C



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568-C.2:2009 Category 6A
ISO/IEC-11801, 2nd Edition Class EA
IEC 61156-5:2002 Category 6A

TRANSMISSION PERFORMANCE

Frequency (MHz)	Insert Loss (dB)	NEXT (dB)	FEXT (dB)	PSANEXT (dB)	TCL (dB)	RL (dB)
1.00	0.10	75.0	75.0	67.0	40.0	30.0
4.00	0.10	75.0	71.1	67.0	40.0	30.0
8.00	0.10	75.0	65.0	67.0	40.0	30.0
10.00	0.10	74.0	63.1	67.0	40.0	30.0
16.00	0.10	69.9	59.0	67.0	38.0	30.0
20.00	0.10	68.0	57.1	67.0	37.0	30.0
25.00	0.10	66.0	55.1	67.0	36.0	30.0
31.25	0.11	64.1	53.2	67.0	35.1	30.0
62.50	0.16	58.1	47.2	67.0	32.0	30.0
100.00	0.20	54.0	43.1	67.0	30.0	28.0
200.00	0.28	48.0	37.1	64.5	27.0	22.0
250.00	0.32	46.0	35.1	62.5	26.0	20.0
300.00	0.35	42.9	33.6	61.0	25.2	18.5
400.00	0.40	37.9	31.1	58.5	24.0	16.0
500.00	0.45	34.0	29.1	56.5	23.0	14.0