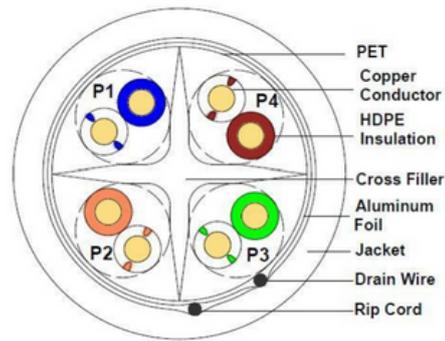


MAIN STRUCTURE



DESCRIPTION:

INSHEILD® Category 6 F/UTP cables are specifically designed to deliver robust standards-based performance ensuring optimum bandwidth for today’s high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 meters.

Each Category 6 F/UTP exceed the minimum specified performance for Category 6 F/UTP cables and support all CLASS E applications.

APPLICATION

- Supports category 6(ClassE) networks running up to 250MHz applications
- Horizontal and backbone in structured cabling installations
- Ideal for environments where external interferences can disrupt signals
- Power over Ethernet (PoE/POE +)
- ATM and token ring
- Power over Ethernet
- Wireless connectivity
- Security cameras
- Audio/visual
- Building automation systems.

FEATURES

- High signal integrity with minimal crosstalk
- Durable PVC jacket for long-term protection
- Compatible with standard Cat 6 connectivity hardware
- Suitable for horizontal cabling installations

CONSTRUCTION	
Category	CAT 6 F/UTP - 23 AWG
Conductor	23 AWG Solid Bare Copper
Pair Color Codes	White/Blue, and Blue White/Orange, and Orange White/Green, and Green White/Brown, and Brown
Insulation	High-Density Polyethylene (HDPE)
Insulation diameter	0.990 mm ± 0.05 mm
Shielding	F/UTP, An aluminized polyester tape applied with a 15% minimum overlap at 4 twisted pairs, the drain wire is attached to the Al. foil overlap at 4 twisted pairs, the drain wire is attached to the Al. foil
Twisting	1: White Blue/Blue 2: Orange White/Orange 3: White Green/Green 4: Brown White/Brown
Cable lay-up	4 pairs with different pitches
Outer diameter	7.2mm±0.2mm
Outer jacket Materials	PVC
Color	Blue (RAL 5012) Grey (RAL 7046)

TECHNICAL SPECIFICATIONS	
Mechanical Properties	
Bending Radius	≤ 8 x Cable Diameter
Pulling Tension, maximum	100 N
Electrical Properties (-20°C ± 5° C)	
Max. Operating Voltage	80V
Mutual Capacitance (nF/100M)	5.6 (Max.)
Resistance Unbalance (%)	5 (Max.)
Characteristic impedance (Ω)	100 ± 15
Nominal velocity of propagation	68%
Worst Delay Skew	≤44 ns/100 m
Environmental specifications	
Operation Temperature	-15 to +75 °C
Installation Temperature	0 to +50 °C
Packing information	
Packing Length	305M per Box, 500M Per Reel

TRANSMISSION CHARACTERISTICS

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2	74.5	570	72.3	68	65	20
4	3.7	65.3	552	63.3	56	53	23
10	5.9	59.3	545	57.3	48	45	25
20	8.3	54.8	541.2	52.8	42	39	25
62.5	14.9	47.4	538.5	45.4	32.1	29.1	21.5
100	19	44.3	537.6	42.3	28	25	20
250	31	38.2	536.1	36.5	20	17	17.3
500	45.4	33.7	532	31.8	14	11	15.2
600	50.1	60.7	535.5	57.7	38.4	35.4	17.3

Ordering Information

Part No	Product Description
C6FUL3X	INSHEILD CAT 6 F-UTP LSZH CABLE 23AWG 305M BOX
C6FUL5X	INSHEILD CAT 6 F-UTP LSZH CABLE 23AWG 500M REEL