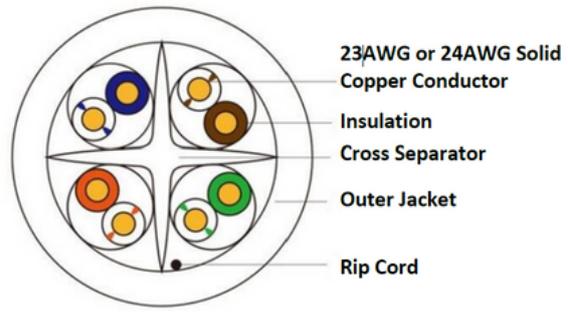
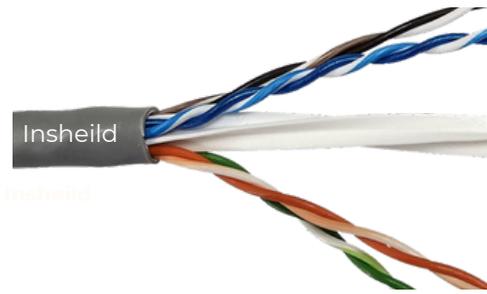


### MAIN STRUCTURE



### DESCRIPTION:

INSHEILD® Category 6 U/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 U/UTP exceeds the minimum specified performance for Category 6 U/UTP cables and support all CLASS E applications.

### APPLICATION

- Supports category 6 (Class E) networks running up to 250MHz applications
- Horizontal and backbone in structured cabling installations
- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE/POE +)
- ATM and token ring
- Power over Ethernet
- Wireless connectivity
- Intelligent lighting
- 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

### PRODUCT DETAILS

#### Mechanical Information

Operating Temperature	-20 ~ 75°C
Maximum Pulling Force	110N
Minimum Bending Radius	4 X O.D.
Flame Test PVC:	CMX/CMH/CM/CMG/CMR/CMP LSZH: CPR-Eca/Fca/B2ca/Dca

#### Product Structure

Conductor	23 AWG
Number of Pair	4
Nominal Conductor	0.57±0.02
Insulation Material	Solid PE
Nominal Insulation	0.01±0.06
Color Code	Orange/Orange, White-Green/Green, White-Blue/Blue, White-Brown/Brown
Separator	YES
Outer Jacket Material	PVC/LSZH
Nominal Cable Diameter	6.1±0.30mm

## 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	74.3	72.3	570	67.8	64.8	20
4	3.8	65.3	63.3	552	55.8	52.8	23
8	5.3	60.8	58.8	546.7	49.7	46.7	24.5
10	6	59.3	57.3	545.4	47.8	44.8	25
16	7.6	56.2	54.2	543	4.7	40.7	25
20	8.5	54.8	52.8	542	4.8	38.8	25
25	9.5	53.3	51.3	541.2	39.8	36.8	24.3
31.25	10.7	51.9	49.9	540.4	37.9	34.9	23.6
62.5	15.4	47.4	45.4	538.6	31.9	28.9	21.5
100	19.8	44.3	42.3	537.6	27.8	24.8	20.1
200	29	39.8	37.8	536.5	21.8	18.8	18
250	32.8	38.3	36.3	536.3	19.8	16.8	17.3

## ORDERING INFORMATION

Part No	Product Description
C6UL3X	INSHEILD CAT 6 U-UTP LSZH CABLE 23AWG 305M BOX
C6UL5X	INSHEILD CAT 6 U-UTP LSZH CABLE 23AWG 500M REEL
C6UP3X	INSHEILD CAT 6 U-UTP PVC CABLE 24AWG 305M BOX
C6UP5X	INSHEILD CAT 6 U-UTP PVC CABLE 23AWG 500M REEL