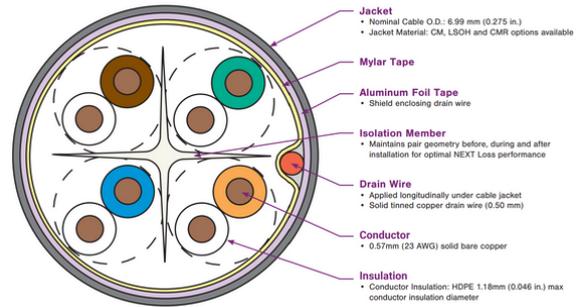
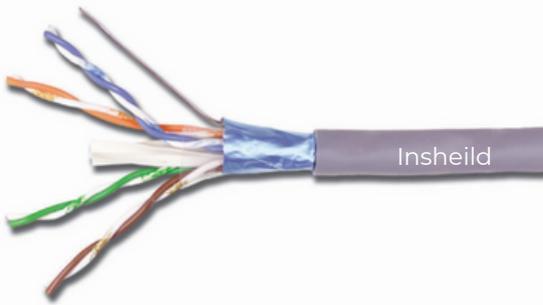


MAIN STRUCTURE



DESCRIPTION:

INSHEILD® Category 6A F/UTP cable supports channel performance exceeding ANSI/TIA-568.2-D and ISO/IEC 11801 Class EA requirements. When combined with our screened Category 6A series connectivity, the result is a channel capable of supporting 10GBASE-T operation over 100-metre, 4-connector topologies. In addition the screened construction ensures virtually zero alien crosstalk. The Category 6A F/UTP cabling system supports emerging and converging IP applications like Voice Over IP (VoIP), IP video and future 10 gigabit applications.

APPLICATION

- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-T
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3bt (Type 3 PoE)
- IEEE 802.3bt (Type 4 PoE)
- Power over HDBaseT (PoH)

FEATURES

- FFUTP
- Nominal Cable O.D.: 6.99 mm (0.275 in.)
- 23 AWG 0.57mm (0.022 in.) solid (non-tinned) copper
- Central isolation member
- Shield is an aluminum foil tape enclosing a tinned copper drain wire
- 75° C temperature rating

PRODUCTDETAILS

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	74.5	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
C6AFUL3X	INSHEILD CAT 6A F-UTP LSZH CABLE 23AWG 305M BOX
C6AFUL5X	INSHEILD CAT 6A F-UTP LSZH CABLE 23AWG 500M REEL
C6AFUP3X	INSHEILD CAT 6A F-UTP PVC CABLE 24AWG 305M BOX
C6AFUP5X	INSHEILD CAT 6A F-UTP PVC CABLE 23AWG 500M REEL