

Cat 6A 23AWG F/UTP Cable 500MHz

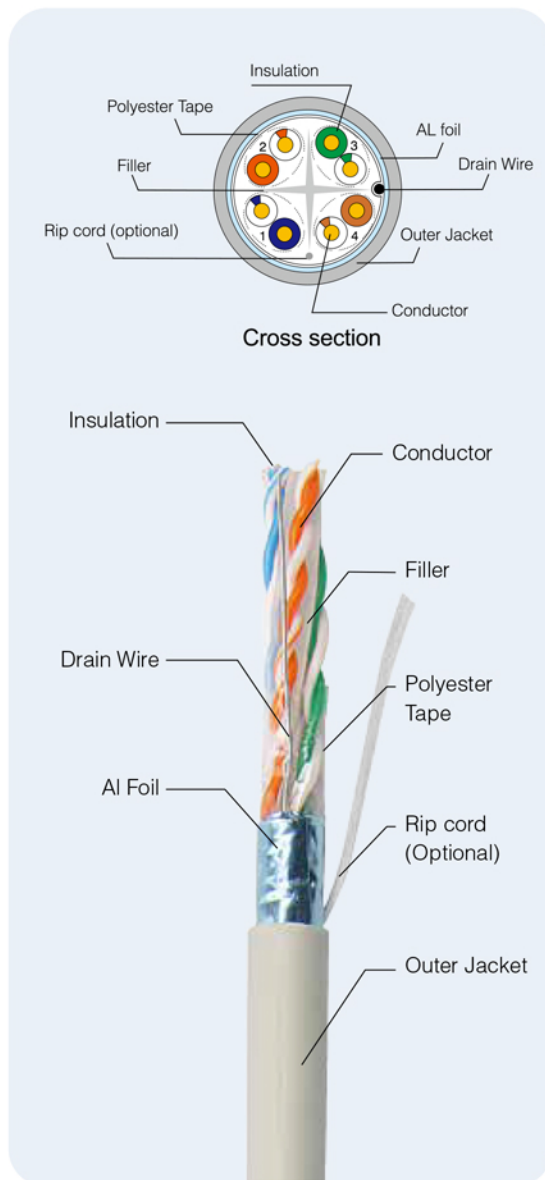
Description

- Rated temperature:90°C
- Reference standard: UL Subject 444,EIA/TIA 568C & ISO / IEC 11801, IEC 61156
- Oxygen free copper conductor
- Colour-Coded PE insulation
- Rip Cord (optional)
- PVC jacket
- Packaging: Reel,Reel in Box

Application

- 100 BASE-T4
- 100 BASE-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000 BASE-TX
- 10G BASE-T
- 155 Mbps ATM
- 622 Mbps ATM

Product Figure



Physical Characteristics

Structure	Construction	F/UTP
	Number of Pairs	4 Pair
	AWG	23AWG
	Conductor Dimension(mm)	1/0.58±0.02mm
	Solid or Stranded; OFC or Tinned	Solid OFC
Insulation	Insulation Material	HD-PE
	Insulation Dimension(mm)	1.18±0.02mm
	Number Colour (Ring or Strip Marking)	1.white/blue & blue 2.white/orange & orange 3.white/green & green 4.white/brown & brown
	Cross Filler	Yes
Shield	Individual Shield & Material	No
	Outer Shield & Material	Yse(AL-Foil)
	Drain Wire	Yes(0.4mmTC)
Outer Jacket	Outer Jacket Material	PVC
	Outer Jacket Ripcord	Optional
	Overall Nominal Diameter (mm)	7.6±0.2mm
Mechanical characteristics	Operating Temp. Range	-20~90°C
	Bulk Cable Weight (KG/KM)	47KG/KM
	Max, Recommended Pulling Tension	100N
	Min. Bend Radius (Install)	10 X O.D.
	Flame Test	EN50575
Electical Characteristics	Nom, Mutual Capacitance@1kHz	≤ 5.6nF / 100M
	Max. Capacitance	≤ 330pF / 100M
	Unbalance (pF/100m)	
	Nominal Velocity of Propagation	65%
	Max.Delay Skew (ns/100m)	≤45ns/ 100M
	Max.Conductor DC Resistance @ 20 Deg. C	≤ 8.3Ω /100M
	Max.DC Resistance Unbalance @ 20 Deg. C	≤ 2%
	Max. Insuation Resistance (MΩ/km)	5000
	Max. Operating Voltage UL	300V

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Electrical Characteristics(TIA/EIA-568C)

Transmission Frequency(MHz)	1	4	10	16	20	25	31.25	62.5	100	125	200	300	400	500
Impedance(ohms)	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±25	100±25	100±25	100±25	100±25
ATT(dB/100m)	2.1	3.8	5.9	7.5	8.4	9.4	10.5	15.0	19.1	21.5	27.6	34.3	40.1	45.3
RL(dB)	20	23	25	25	25	24.3	23.6	21.5	20.1	19.4	18	16.8	15.9	15.2
NEXT(dB)	74.3	65.3	59.3	56.2	54.8	53.3	51.9	47.4	44.3	42.8	39.8	37.1	35.3	33.8
PSNEXT(dB)	72.3	63.3	57.3	54.2	52.8	51.3	49.9	45.4	42.3	40.8	37.8	35.1	33.3	31.8
ELFEXT(dB)	67.8	55.8	47.8	43.7	41.8	39.8	37.9	31.9	27.8	25.9	21.8	18.3	15.8	13.8
PSELFEXT(dB)	64.8	52.8	44.8	40.7	38.8	36.8	34.9	28.9	24.8	22.9	18.8	15.3	12.8	10.8
TCL(dB)	40	40	40	38	37	36	35.1	32	30	29	27	25.2	24	23
DELAY(ns/100m)	570	552	545	543	542	541	540	539	538	537	537	536	536	536
PSAACRF(dB)	67	66.2	58.2	54.1	52.2	50.2	48.3	42.3	38.2	36.6	32.2	28.7	26.2	24.2

Electrical Characteristics(IEC-61156)

Transmission Frequency(MHz)	4	10	16	20	25	31.25	62.5	100	125	200	250	300	400	500
Impedance(ohms)	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±25	100±25	100±25	100±25	100±25	100±25
ATT(dB/100m)	3.7	5.9	7.4	8.3	9.3	10.4	14.9	19	21.4	27.5	31	34.2	40	45.3
RL(dB)	23	25	25	25	24.3	23.6	21.5	20.1	19.4	18	17.3	16.8	15.9	15.2
NEXT(dB)	65.3	59.3	56.2	54.8	53.3	51.9	47.4	44.3	42.8	39.8	38.3	37.1	35.3	33.8
PSNEXT(dB)	63.3	57.3	54.2	52.8	51.3	49.9	45.4	42.3	40.8	37.8	36.3	35.1	33.3	31.8
ELFEXT(dB)	55.8	47.8	43.7	41.8	39.8	37.9	31.9	27.8	25.9	21.8	19.8	18.3	15.8	13.8
PSELFEXT(dB)	52.8	44.8	40.7	38.8	36.8	34.9	28.9	24.8	22.9	18.8	16.8	15.3	12.8	10.8
TCL(dB)	40	40	38	37	36	35.1	32	30	29	27	26	25.2	24	23
DELAY(ns/100m)	552	545.4	543	542	541.2	540.4	538.6	537.6	537.2	536.5	536.3	536.1	535.8	535.6
PSAACRF(dB)	66.2	58.2	54.1	52.2	50.2	48.3	42.3	38.2	36.3	32.2	30.2	28.7	26.2	24.2