

## Cat 6A 23AWG F/FTP Cable 500MHz

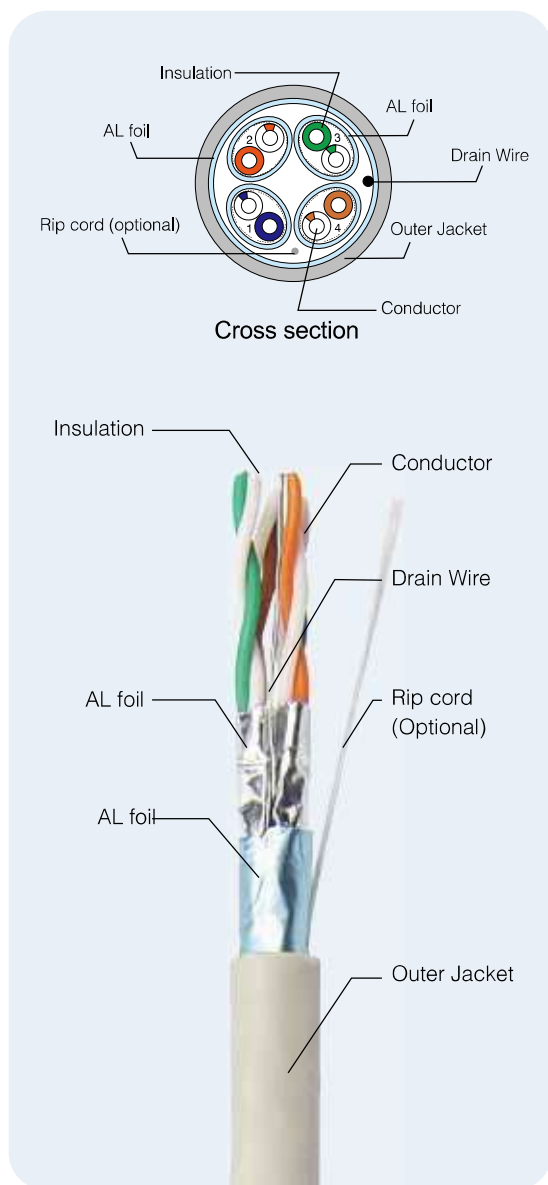
### Description

- Rated temperature:75 or 90 °C
- Reference standard: UL Subject 444,TIA/EIA 568B.2/568C.2 & ISO / IEC 11801, IEC 61156-5
- Oxygen free copper conductor
- Colour-Coded Foamed PE insulation
- Rip Cord (optional)
- PVC or LSZH jacket
- Packaging: Reel,Reel in Box

### Application

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

### Product Figure



### Physical Characteristics

Structure	Construction	F/FTP
	Number of Pairs	4 Pair
	AWG	23AWG
	Conductor Dimension(mm)	Per customer request
	Solid or Stranded; OFC or Tinned	Solid OFC
Insulation	Insulation Material	Physically foamed PE
	Insulation Dimension(mm)	Per customer request
	Number Colour (Ring or Strip Marking)	1.white/blue & blue 2.white/orange & orange 3.white/green & green 4.white/brown & brown
	Cross Filler	No
Shield	Individual Shield & Material	Yes(AL-Foil)
	Outer Shield & Material	Yes(AL-Foil)
	Drain Wire	Yes(0.4mmTC )
Outer Jacket	Outer Jacket Material	PVC or LSZH
	Outer Jacket Ripcord	Per customer request
	Overall Nominal Diameter (mm)	Per customer request
Mechanical characteristics	Operating Temp. Range	-30~90°C
	Bulk Cable Weight (KG/KM)	Per customer request
	Max, Recommended Pulling Tension	100N
	Min. Bend Radius (Install)	10 × O.D.
	Flame Test	EN50575 EN50399
Electical Characteristics	Nom, Mutual Capacitance@1kHz	≤ 5.6nF / 100M
	Max. Capacitance	≤ 160pF / 100M(Per IEC 61156)
	Unbalance ( pF/100m)	≤ 330pF / 100M(Per TIA/EIA-568C)
	Nominal Velocity of Propagation	74%
	Max.Delay Skew (ns/100m)	≤25ns/ 100M
	Max.Conductor DC Resistance @ 20 Deg. C	Per customer request
	Max.DC Resistance	≤2%
	Unbalance @ 20 Deg. C	
	Max. Insuation Resistance (MΩ/km)	5000
Max. Operating Voltage ULFF	300V	

NOTE: TYPE \* (\*=V/PVC, L/LSZH, X/CM, R/CMR, E/PE)

## Cat 6A 23AWG F/FTP Cable 500MHz 500M

### 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

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