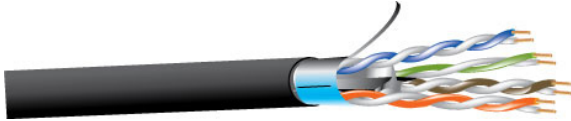


Detailed Specification & Technical Data



4246AF

4 Pair 23AWG F/UTP Cat6A 10G CMR

10/100/1000/10000 BaseT Ethernet, 10G Networks, HDBaseT

Construction & Dimensions

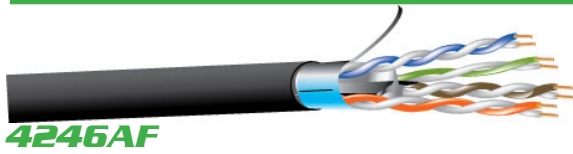
CONDUCTOR PARAMETERS	
Number Of Pairs	4
AWG Size	23
Conductor Stranding	Solid
Conductor Type	Bare Copper
Nominal DCR	21 Ohm/1000ft
INSULATION PARAMETERS	
Insulation Type	Polyolefin
Insulation Color Code	1.Blue,WH-Blue 2.Orange,WH-Orange 3.Green,WH-Green 4.Brown, WH-Brown
SHIELDING PARAMETERS	
Shield Type	Overall 100% Aluminum Foil (F/UTP)
Drain Wire AWG Size	22 AWG
Drain Wire Type	Tinned Copper
ELECTRICAL CHARACTERISTICS	
Nominal Impedance	100 Ohm
Nominal Capacitance Between Conductors	14 pF/ft

Overall Construction

OVERALL CONSTRUCTION PARAMETERS	
Total Number of Conductors	8
Jacket Type	PVC
Nominal Cable O.D.	0.303 in
Plenum	No
NEC UL Rating	CMR
RoHS Compliant	Yes
ANSI/TIA Category	Category 6A TIA/EIA 568C.2
TIA Test	ANSI/TIA-568-C.2
Pull Tension	35 lbs
Bend Radius	1.515 in
Cable Weight	46 lbs

Overall Electrical & Optical Characteristics

OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS	
Nominal Velocity of Propagation (VP)	68 %
Delay Skew	35 ns/100m
UL Flammability	UL1666 Vertical Shaft
CSA Flammability	FT4
Operating Range	-20 to 60 Deg C
UL Voltage Rating	300



Electrical Performance

Frequency (Mhz)	Max. Insertion Loss	Min. NEXT	Min. PSNEXT	Min. PSACR	Min. ACR	Min. PSACRF (PSELF-EXT)	Min. ACRF (ELF-EXT)	Min. PSANEXT	Min. PSAA-CRF	Min. RL (Return Loss)	Min. TCL	Min. ELTCTL	Max/Min Input Imp. Unfit	Max/Min Fitted Imp.
1 MHz	2.1 db/100m	75.3 dB	72.3 dB	70.2 dB	73.2 dB	65 dB	68 dB	67 dB	67 dB	20 dB	40 dB	35 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	3.8 db/100m	66.3 dB	63.3 dB	59.5 dB	62.5 dB	53 dB	56 dB	67 dB	67 dB	23 dB	40 dB	23 dB	100 ± 15 Ohm	100 ± 15 Ohm
8 MHz	5.3 db/100m	60.8 dB	58.8 dB	57.1 dB	58.7 dB	46.7 dB	49.7 dB	67 dB	61.1 dB	24.5 dB	40 dB	17 dB	100 ± 15 Ohm	100 ± 15 Ohm
10 MHz	5.9 db/100m	60.3 dB	57.3 dB	51.4 dB	54.4 dB	45 dB	48 dB	67 dB	59.2 dB	25 dB	40 dB	15 dB	100 ± 15 Ohm	100 ± 15 Ohm
16 MHz	7.5 db/100m	57.2 dB	54.2 dB	46.8 dB	49.8 dB	41 dB	43.9 dB	67 dB	55.1 dB	25 dB	40 dB	10.9 dB	100 ± 15 Ohm	100 ± 15 Ohm
20 MHz	8.4 db/100m	54.8 dB	52.8 dB	44.4 dB	47.5 dB	38.8 dB	41.8 dB	67 dB	53.2 dB	25 dB	38 dB	9 dB	100 ± 15 Ohm	100 ± 15 Ohm
25 MHz	9.4 db/100m	53.3 dB	51.3 dB	42.6 dB	45.4 dB	36.8 dB	39.8 dB	67 dB	51.2 dB	24.3 dB	38 dB	7.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
31.25 MHz	10.5 db/100m	52.9 dB	49.9 dB	39.4 dB	42.4 dB	35.1 dB	38.1 dB	67 dB	49.3 dB	23.6 dB	35.1 dB	5.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
62.5 MHz	15 db/100m	48.4 dB	45.4 dB	30.4 dB	33.4 dB	29.1 dB	32.1 dB	66.6 dB	43.3 dB	21.5 dB	32 dB		100 ± 15 Ohm	100 ± 15 Ohm
100 MHz	19.1 db/100m	45.3 dB	42.3 dB	23.2 dB	26.2 dB	25 dB	28 dB	63.5 dB	39.2 dB	20.1 dB	30 dB		100 ± 15 Ohm	100 ± 15 Ohm
155 MHz	24.1 db/100m	41.4 dB	39.4 dB	18.9 dB	21.3 dB	22.1 dB	25.6 dB	61.5 dB	37.1 dB	19.2 dB	29 dB		100 ± 15 Ohm	100 ± 15 Ohm
200 MHz	27.6 db/100m	40.8 dB	37.8 dB	10.2 dB	13.2 dB	19 dB	22 dB	59 dB	33.2 dB	18 dB	27 dB		100 ± 22 Ohm	100 ± 15 Ohm
250 MHz	31.1 db/100m	39.3 dB	36.3 dB	5.3 dB	8.3 dB	17 dB	20 dB	57.5 dB	31.2 dB	17.3 dB	26 dB		100 ± 32 Ohm	100 ± 15 Ohm
300 MHz	34.3 db/100m	38.1 dB	35.1 dB	0.9 dB	3.9 dB	15.5 dB	18.5 dB	56.3 dB	29.7 dB	16.8 dB	25.2 dB		100 ± 32 Ohm	100 ± 15 Ohm
350 MHz	37.2 db/100m	36.1 dB	34.1 dB			13.9 dB	16.9 dB	55.3 dB	28.3 dB	16.3 dB	24.6 dB		100 ± 32 Ohm	100 ± 15 Ohm
400 MHz	40.1 db/100m	35.3 dB	33.3 dB			12.8 dB	15.8 dB	54.5 dB	27.2 dB	15.9 dB	24 dB		100 ± 32 Ohm	100 ± 15 Ohm
450 MHz	43.3 db/100m	34.8 dB	32.6 dB			12.1 dB	14.8 dB	53.7 dB	26.1 dB	15.5 dB	23.5 dB		100 ± 32 Ohm	100 ± 15 Ohm
500 MHz	45.3 db/100m	34.8 dB	31.8 dB			11 dB	14 dB	53 dB	25.2 dB	15.2 dB			100 ± 32 Ohm	100 ± 15 Ohm
550 MHz	48.2 db/100m	34.1 dB	30.9 dB			10.5 dB	13.2 dB	52.4 dB	24.4 dB	14.9 dB			100 ± 32 Ohm	100 ± 15 Ohm
625 MHz	51.2 db/100m	33.4 dB	30.4 dB			9.1 dB	21.1 dB	51.6 dB	23.3 dB	14.5 dB			100 ± 32 Ohm	100 ± 15 Ohm
Tested to 550Mhz - Values above 250Mhz are for Engineering Purposes Only														

Related Products

RELATED PRODUCTS	
Plenum Number	254246AF
Jack	KJS458TL-C6A
Modular Plug	90170-BI

Part Numbers

Part Number	Jacket Color	Put Up Length	Part Number	Jacket Color	Put Up Length
4246AFBK1000	BLACK	1000			