

Detailed Specification & Technical Data



424610

4 Pair 23AWG UTP Category 6 Indoor/Outdoor CM-LS

10/100/1000 BaseT Ethernet, IP CCTV, Digital Integration, HDBaseT

The Cable is suitable for use in building in Wet Locations and suitable for use outdoor in duct and aerial lashing
It is fully water blocked and has a sunlight resistant jacket

Construction & Dimensions

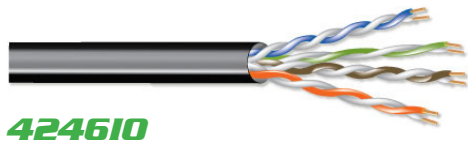
CONDUCTOR PARAMETERS	
Number Of Pairs	4
AWG Size	23
Conductor Stranding	Solid
Conductor Type	Bare Copper
Nominal DCR	22 Ohm/1000ft
INSULATION PARAMETERS	
Insulation Type	Polyolefin
Insulation Color Code	1.Blue,WH-Blue 2.Orange,WH-Orange 3.Green,WH-Green 4.Brown, WH-Brown
SHIELDING PARAMETERS	
Shield Type	Unshielded Twisted Pair (UTP)
Flooding Compound	Yes - Water Blocking Compound
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	UV Resistant Polyolein
Nominal Cable O.D.	0.251 in
Plenum	No
NEC UL Rating	CM-LS (Low Smoke, Zero Halogen)
RoHS Compliant	Yes
ANSI/TIA Category	Category 6 TIA/EIA 568C.2
TIA Test	ANSI/TIA-568-C.2
Pull Tension	35 lbs
Bend Radius	1.255 in
Cable Weight	43 lbs

Overall Electrical & Optical Characteristics

OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS	
Nominal Velocity of Propagation (VP)	72 %
Delay Skew	30 ns/100m
UL Flammability	UL1685
Operating Range	-20 to 60 Deg C
UL Voltage Rating	300



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Electrical Performance

Frequency (Mhz)	Max. Insertion Loss	Min. NEXT	Min. PSNEXT	Min. PSACR	Min. ACR	Min. PSACRF (PSELF-EXT)	Min. ACRF (ELF-EXT)	Min. RL (Return Loss)	Max/Min Input Imp. Unfit	Max/Min Fitted Imp.
1 MHz	2 db/100m	75.3 dB	73.3 dB	71.3 dB	73.3 dB	67.8 dB	70.8 dB	20 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	3.7 db/100m	66.3 dB	64.3 dB	60.6 dB	62.6 dB	55.8 dB	58.8 dB	23 dB	100 ± 15 Ohm	100 ± 15 Ohm
8 MHz	5.2 db/100m	63.3 dB	61.3 dB	56.1 dB	58.1 dB	49.7 dB	52.7 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
10 MHz	5.8 db/100m	61.8 dB	59.8 dB	54 dB	56 dB	47.8 dB	50.8 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
16 MHz	7.4 db/100m	58.6 dB	56.6 dB	49.2 dB	51.2 dB	43.7 dB	46.7 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
20 MHz	8.3 db/100m	57.1 dB	55.1 dB	46.8 dB	46.8 dB	41.8 dB	44.8 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
25 MHz	9.3 db/100m	55.5 dB	53.5 dB	44.3 dB	46.3 dB	39.8 dB	42.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm
31.25 MHz	11.4 db/100m	54 dB	52 dB	41.6 dB	43.6 dB	37.9 dB	40.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 15 Ohm
62.5 MHz	15 db/100m	49.1 dB	47.1 dB	32.1 dB	34.1 dB	31.9 dB	34.9 dB	21.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
100 MHz	19.3 db/100m	45.8 dB	43.8 dB	24.5 dB	26.5 dB	27.8 dB	30.8 dB	20.8 dB	100 ± 15 Ohm	100 ± 15 Ohm
155 MHz	24.5 db/100m	42.7 dB	40.7 dB	16.2 dB	18.2 dB	24 dB	27 dB	19.8 dB	100 ± 15 Ohm	100 ± 15 Ohm
200 MHz	28.3 db/100m	40.9 dB	38.9 dB	10.6 dB	12.6 dB	21.8 dB	24.8 dB	18.7 dB	100 ± 22 Ohm	100 ± 15 Ohm
250 MHz	32.1 db/100m	39.3 dB	37.3 dB	5.2 dB	7.2 dB	19.8 dB	22.8 dB	18 dB	100 ± 32 Ohm	100 ± 15 Ohm
300 MHz	38 db/100m	38.1 dB	36.1 dB	-0.5 dB	2.5 dB	18.3 dB	21.3 dB	17.5 dB	100 ± 32 Ohm	100 ± 15 Ohm
350 MHz	38.9 db/100m	37.1 dB	35.1 dB	-3.7 dB	-1.7 dB	16.9 dB	19.9 dB	17 dB	100 ± 32 Ohm	100 ± 15 Ohm
400 MHz	42 db/100m	36.3 dB	34.3 dB	-7.7 dB	-5.7 dB	15.8 dB	18.8 dB	16.6 dB	100 ± 32 Ohm	100 ± 15 Ohm
450 MHz	45 db/100m	35.5 dB	33.5 dB	-11.5 dB	-9.5 dB	14.7 dB	17.7 dB	16.2 dB	100 ± 32 Ohm	100 ± 15 Ohm
500 MHz	47.9 db/100m	34.8 dB	32.8 dB	-15 dB	-13 dB	13.8 dB	16.8 dB	15.9 dB	100 ± 32 Ohm	100 ± 15 Ohm
550 MHz	50.6 db/100m	34.2 dB	32.2 dB	-18.4 dB	-16.4 dB	13 dB	16 dB	15.6 dB	100 ± 32 Ohm	100 ± 15 Ohm
Tested to 550Mhz - Values above 250Mhz are for Engineering Purposes Only										

Related Products

RELATED PRODUCTS	
Plenum Number	254246
Non Plenum Number	4246
Outdoor Direct Burial 1	4246OSP
Jack	KJ458MT-C6C-XX
Modular Plug	32-6EZP
Modular Plug 2	32-6198UL

Part Numbers

Part Number	Jacket Color	Put Up Length
4246IOBK1000	BLACK	1000