

Detailed Specification & Technical Data



424510

4 Pair 24AWG UTP Indoor/Outdoor CM-LS

10/100 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	24
Conductor Stranding	Solid
Conductor Type	Bare Copper
Nominal DCR	26 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 5E TIA/EIA 568C.2
TIA Test	ANSI/TIA-568-C.2
Pull Tension	35 lbs
Bend Radius	1.255 in
Cable Weight	37 lbs

Overall Electrical & Optical Characteristics

OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS	
Nominal Velocity of Propagation (VP)	72 %
Delay Skew	45 ns/100m
UL Flammability	UL1685
Operating Range	-20 to 75 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	70.3 dB	68.3 dB	66.3 dB	70.3 dB	64.8 dB	67.8 dB	20 dB	100 ± 15 Ohm	100 ± 15 Ohm
4 MHz	4 db/100m	61.3 dB	59.3 dB	55.3 dB	59.3 dB	52.8 dB	55.8 dB	23.6 dB	100 ± 15 Ohm	100 ± 15 Ohm
8 MHz	5.7 db/100m	56.8 dB	54.8 dB	49.1 dB	53.1 dB	46.7 dB	49.7 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
10 MHz	6.4 db/100m	55.3 dB	53.3 dB	46.9 dB	50.9 dB	44.8 dB	47.7 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
16 MHz	8.1 db/100m	52.2 dB	50.2 dB	42.1 dB	46.1 dB	40.7 dB	43.7 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
20 MHz	9.1 db/100m	50.8 dB	48.8 dB	39.7 dB	43.7 dB	38.8 dB	41.8 dB	25 dB	100 ± 15 Ohm	100 ± 15 Ohm
25 MHz	10.2 db/100m	49.3 dB	47.3 dB	37.1 dB	41.1 dB	36.8 dB	39.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm
31.25 MHz	11.4 db/100m	47.9 dB	45.9 dB	34.5 dB	38.5 dB	34.9 dB	37.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 15 Ohm
62.5 MHz	16.7 db/100m	43.4 dB	41.1 dB	25 dB	29 dB	38.9 dB	31.9 dB	21.5 dB	100 ± 15 Ohm	100 ± 15 Ohm
100 MHz	21 db/100m	40.3 dB	38.3 dB	17.3 dB	21.3 dB	34.8 dB	27.8 dB	20.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
155 MHz	26.6 db/100m	37.4 dB	35.4 dB	8.9 dB	12.8 dB	21 dB	24 dB	18.8 dB	100 ± 22 Ohm	100 ± 15 Ohm
200 MHz	30.5 db/100m	35.8 dB	33.8 dB	3.3 dB	7.3 dB	18.8 dB	21.8 dB	18 dB	100 ± 32 Ohm	100 ± 15 Ohm
250 MHz	34.4 db/100m	34.3 dB	32.3 dB		1.9 dB	16.8 dB	19.8 dB	17.3 dB	100 ± 32 Ohm	100 ± 15 Ohm
300 MHz	38 db/100m	33.1 dB	28.2 dB			15.2 dB	18.2 dB	14.4 dB	100 ± 32 Ohm	100 ± 15 Ohm
350 MHz	41.4 db/100m	32.1 dB	27.2 dB			13.9 dB	16.9 dB	13.8 dB	100 ± 32 Ohm	100 ± 15 Ohm
Tested to 350Mhz - Values above 100Mhz are for Engineering Purposes Only										

Related Products

RELATED PRODUCTS	
Plenum Number	254245
Non Plenum Number	4245
Outdoor Direct Burial 1	4245OSP
Outdoor Direct Burial 2	M57562
Jack	KJ458MT-C5E-xx
Modular Plug	32-EZP
Modular Plug 2	32-5998UL

Part Numbers

Part Number	Jacket Color	Put Up Length
4245IOBK1000	BLACK	1000