

Detailed Specification & Technical Data



254245F

4 Pair 24AWG F/UTP Category 5E CMP

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

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		Fluoropolymer
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		24 AWG
Drain Wire Type		Tinned Copper
ELECTRICAL CHARACTERISTICS		-
Nominal Impedance		100 Ohm
Nominal Capacitance Between Conductors		15 pF/ft

Overall Construction

OVERALL CONSTRUCTION PARAMETERS		-
Total Number of Conductors		8
Jacket Type		Flexible Plenum
Nominal Cable O.D.		0.235 in
Plenum		Yes
NEC UL Rating		CMP
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		1.175 in
Cable Weight		31 lbs

Overall Electrical & Optical Characteristics

OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS		-
Nominal Velocity of Propagation (VP)		72 %
Delay Skew		45 ns/100m
UL Flammability		NFPA 262 Plenum
CSA Flammability		FT6
Operating Range		-0 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
400 MHz	44.6 db/100m		26.3 dB					13.3 dB		
Tested to 350Mhz - Values above 100Mhz are for Engineering Purposes Only										

Related Products

RELATED PRODUCTS	
Non Plenum Number	4245F
Jack	KJS458TL-C5E
Modular Plug	CN-EZSTP-EG

Part Numbers

Part Number	Jacket Color	Put Up Length
254245FGY1000	GRAY	1000
254245FBL1000	BLUE	1000