



254247F

4pr. 22AWG F/STP Category 7 CMP

1G/10G Ethernet, Digital Integration, HDBaseT

Construction & Dimensions

CONSTRUCTION & DIMENSIONS	-
CONDUCTOR PARAMETER	-
• Number of Pairs	4
• AWG Size	22
• Conductor Stranding	Solid
• Conductor Type	Bare Copper
• Nominal DCR	28.6 Ohm/1000ft
INSULATION PARAMETER	-
• Insulation Type	Foam FEP
• Insulation Thickness	.018 in
• Insulation Color Code	1.Blue,WH-Blue 2.Orange,WH-Orange 3.Green,WH-Green 4.Brown, WH-Brown
SHIELDING PARAMETER	-
• Shield Type	Individually Al. Foil + 65% Tinned Copper Overall Shield
ELECTRICAL CHARACTERISTICS	-
• Nominal Impedance	100 Ohm
• Nom. Cap. Between Conductors	17 pF/ft

Overall Construction

OVERALL CONSTRUCTION PARAMETERS	-
Jacket Type	Flexible Plenum
Jacket Thickness	.025 in
Nominal Cable O.D.	.305
Plenum	Yes
NEC UL Rating	CMP
RoHS Compliant	Yes
ANSI/TIA Category	Category 7 - ISO11801 Class F
TIA Test	Category 7
Pull Tension	25 lbs
Bend Radius	3.05 in
Cable Weight	54 lbs

Overall Electrical & Optical Characteristics

OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS	-
Nominal Velocity of Propagation (VP)	79 %
Delay Skew	25 ns/100m
UL Flammability	NFPA 262
CSA Flammability	FT6
Operating Range	-20 to 105 Deg C
UL Voltage Rating	300 V

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Electrical Performance

Frequency (Mhz)	Max. Insertion Loss	Min. NEXT	Min. PSNEXT	Min. PSACR	Min. ACR	Min. PSACRF (PSELFEXT)	Min. ACRF (ELFEXT)	Min. RL (Return Loss)
4 MHz	3.3 db/100m	78 dB	75 dB	71.3 dB	74.3 dB	75 dB	78 dB	23 dB
8 MHz	4.9 db/100m	78 dB	75 dB	69.8 dB	72.8 dB	72.8 dB	75.9 dB	24.5 dB
10 MHz	5.2 db/100m	78 dB	75 dB	69.1 dB	72.1 dB	71 dB	74 dB	25 dB
16 MHz	7.0 db/100m	78 dB	75 dB	67.6 dB	70.6 dB	66.9 dB	69.9 dB	25 dB
20 MHz	6.9 db/100m	78 dB	75 dB	66.7 dB	69.7 dB	65 dB	68 dB	25 dB
25 MHz	8.9 db/100m	78 dB	75 dB	65.7 dB	68.7 dB	63 dB	66 dB	24.3 dB
31.25 MHz	10.1 db/100m	78 dB	75 dB	64.6 dB	67.6 dB	61.1 dB	64.1 dB	23.6 dB
62.5 MHz	14.5 db/100m	75.5 dB	72.5 dB	57.6 dB	60.6 dB	55.1 dB	58.1 dB	21.5 dB
100 MHz	18.4 db/100m	72.4 dB	69.4 dB	50.4 dB	53.4 dB	51 dB	54 dB	20.1 dB
150 MHz	23.2 db/100m	69.8 dB	66.8 dB	43.2 dB	46.2 dB	47.2 dB	50.2 dB	18.8 dB
200 MHz	27.1 db/100m	67.9 dB	64.9 dB	37.4 dB	40.4 dB	45 dB	48 dB	18 dB
250 MHz	30.6 db/100m	66.4 dB	63.4 dB	32.4 dB	35.4 dB	43 dB	46 dB	17.3 dB
300 MHz	33.8 db/100m	65.2 dB	62.2 dB	28 dB	31 dB	41.5 dB	44.5 dB	17.3 dB
600 MHz	49.7 db/100m	60.7 dB	57.7 dB	7.6 dB	10.6 dB	35.4 dB	38.4 dB	17.3 dB