

Category 5E Plenum Data Communication Cable



APPLICATION:

Category 5E Plenum Data Communication Cable is suitable to be used as structured cabling for voice and high speed in commercial and residential building for voice, video and LAN data lines, when they are installed in air return ducts or when limiting the transmission of smoke is required. The cable is rated for use at 350MHz and is rated CMP.

CONDUCTORS:

- Solid soft drawn bare copper per ASTM B3

INSULATION:

- Low smoke plenum rated insulation

CABLING:

- 4 twisted pairs cabled together, each pair with different lays to minimize cross-talk interferences

JACKET:

- Low smoke plenum rated jacket

STANDARDS:

- UL listed or ETL verified Type CMP
- NEC Article 800, NFPA 262
- 1000Mbps
- TPDDI 155
- ATM IEEE 802.3
- IEEE 802.5 ISD Voice
- TIA/EIA-568
- ISO/IEC-11801

CAT5E (UTP) CMP Plenum 24 AWG 4 Pairs					
Part Number	Nominal Overall Diameter	Approx. Weight	Mutual Capacitance	DC Resistance Max	Nominal Velocity of Propagation
	inches	lbs/kft	Nf/100m	$\Omega/100m$	%
TEL24-4PC5E350PLE	0.187	20	4.4	9.38	72

Performance						
Frequency	ACR, min.	Characteristic Impedance	SRL	Attenuation @20°C, max.	Worst Pr Next, min.	PS-Next, min.
MHz	dB/100m	$\Omega/100m$	dB/100m	dB/100m	dB/100m	dB/100m
1.0	66	100 ± 15%	23.0	2.0	68	63
4.0	55	100 ± 15%	23.0	4.1	59	54
10.0	47	100 ± 15%	23.0	6.5	53	47
16.0	42	100 ± 15%	23.0	8.2	50	45
20.0	40	100 ± 15%	23.0	9.3	48	43
31.3	35	100 ± 15%	21.9	11.7	45	40
62.5	25	100 ± 15%	20.2	17.0	41	36
100.0	18	100 ± 15%	19.1	22.0	38	33
155.0	10	100 ± 15%	18.0	28.1	35	30
200.0	-	100 ± 15%	17.4	32.4	33	27
300.0	-	100 ± 15%	16.4	41.0	31	26
500.0	-	100 ± 15%	16.0	44.9	30	25

All values are nominal and subject to correction



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