

# ANSI/TIA/EIA 568 Category 5e

Part Number: Plenum5ES4/Non-Plenum5ENS4

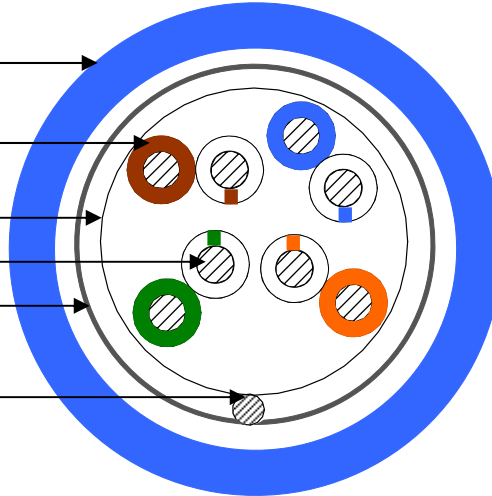
Screened 4 Twisted Pair Cable (ScTP)

Plenum: UL Type CMP, C(UL) CMP

Non-Plenum: ETL Type CMR, C(ETL)CMG

## Twisted Pair Shielded Cable

- Outer Jacket** — PVC
- Pair Insulation** — Non-Plenum: PE  
Plenum: FEP
- Polyester Tape**
- 24 AWG Solid Copper**
- Aluminum Tape**
- Drain Wire** — 24 AWG Solid Tinned Copper



### Pair Identification – Option 1

Pair 1	Blue/White w/Co-Extruded Blue Stripe on White Single
Pair 2	Orange/White w/Co-Extruded Orange Stripe on White Single
Pair 3	Green/White w/Co-Extruded Green Stripe on White Single
Pair 4	Brown/White w/Co-Extruded Brown Stripe on White Single

Mechanical Specification	Plenum	Non-Plenum
Nominal Jacket OD	0.200"	0.245"
Nominal Jacket Thickness	0.015"	0.020"
Jacket Minimum Spot Thickness	0.013"	0.017"
Installation Temperature 0°C to 60°C		
Operation Temperature -20°C to 60°C		

Available Packaging: Box or Reel  
 Available Colors: White, Blue, Gray



Drawings not to Scale  
 Specifications subject to change  
 Revision: 11/17/08



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## Electrical Performance

Frequency MHz	Attenuation (dB/100m) Max	Pair to Pair		Return Loss (dB) Min	ACR (dB) Min	Power Sum		
		NEXT (dB) Min	ELFEXT (dB/100m) Min			NEXT (dB) Min	ELFEXT (dB/100m) Min	ACR (dB) Min
.772	1.8	67	66	NA	65	64	63	62
1.0	2.0	65	64	20.0	63	62	61	60
4.0	4.0	56	52	23.0	52	53	49	49
8.0	5.8	52	46	24.5	45	48	43	43
10.0	6.5	50	44	25.0	44	47	41	41
16.0	8.2	47	40	25.0	39	44	37	36
20.0	9.2	46	38	25.0	37	42	35	34
25.0	10.4	44	36	24.3	34	41	33	31
31.25	11.7	43	34	23.6	31	40	31	28
62.5	17.0	38	28	21.5	21	35	25	18
100.0	22.0	35	24	20.1	13	32	21	10

(All tests include swept frequency measurements)

NEXT, and Power Sum values are derived from functions and truncated to the nearest whole dB

Input Impedance (Zin)	100 ohms $\pm$ 15% 1 – 100 MHz
Capacitance	14 pF/ft nominal
DC Resistance/Unbalance	28.6 ohms/100m Max/ 5% Max
Dielectric Breakdown	2500 Volts DC Conductor to Conductor
Nom. Velocity of Propagation	FEP = 71% PE = 68%
Maximum Skew	45nSec @ 100meters



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