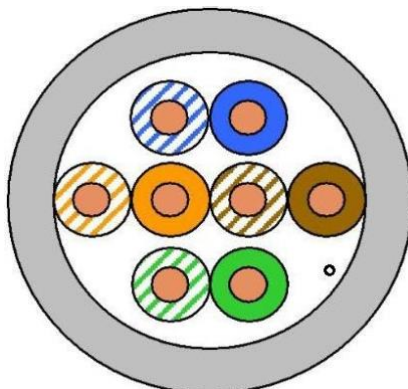


Category 5e UTP Cable

Part Number: PROCAT5E



Application

Voice, Data, Security and Video Applications.
IP Megapixel CCTV/Analog Installations
Wire Access Points
Gigabit Indoor Video/data installations
Long distance PoE feeding

Standards

ANSI EIA/TIA 568 C.2;
ISO/IEC 11801 2nd Edition; IEC 61156-5
EN 50173; EN 50288-3-1
IEEE 802.3at
UL
ETL

Flame resistance

IEC 60332-1
CM

Construction

Conductor	Bare copper wire (AWG24/1)
Insulation	Polyethylene, $\varnothing 0.91 \pm 0.02$ mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath CM	PVC Grey RAL 70 46

Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	during operation	-20° C ~ + 60° C
	during installation	0° C ~ + 50° C

Electrical properties @ 20° C

Dielectric strength	2.5 KV dc-2 seconds
Conductor resistance	Max 9.38 ohm/100M at 20°C
Max. Ring resistance	16.8 Ohm/100M at 20°C
Max. Mutual capacitance	560 pf/100M
Max. Capacity unbalance	330 pf/100M
Mean characteristic impedance 100 MHz	100 ± 15 Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core Coupling attenuation	≥ 40 dB

Nominal transmission characteristics @ 20° C

Fre. (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (dB)
1	1,9	71	68	69,1	66,1	68	65	20
4	3,7	62	59	58,3	55,3	56	53	23
10	6	56	53	50	47,0	48	45	25
16	7,6	53	50	45,4	42,4	44	41	25
20	8,5	51	48	42,5	39,5	42	39	25
31,2	10,7	49	46	38,3	35,3	38	35	24
62,5	15,7	44	41	28,3	25,3	32	29	22
100	19,8	41	38	21,2	18,2	28	25	20
125	22,3	40	37	17,7	14,7	26	23	19
155,5	24,2	38	35	13,8	10,8	24	21	-
175	25,7	37	34	11,3	8,3	23	20	-
200	27,5	36	33	8,5	5,5	22	19	-
250	29,2	35	32	5,8	2,8	20	17	-
300	32,0	34	31	2,0	-1,0	16	13	-

Product Code Table

Product Description	Packing Length	Part Number
24 AWG Cat.5e UTP 4P PVC UL CM White Color	1000ft easy pull box	PROCAT5EW
24 AWG Cat.5e UTP 4P PVC UL CM Grey Color	1000ft easy pull box	PROCAT5E
24 AWG Cat.5e UTP 4P PVC UL CM Orange Color	1000ft easy pull box	PROCAT5E N/1000
24 AWG Cat.5e UTP 4P PVC UL CM Gold Color	1000ft easy pull box	PROCAT5E D/1000
24 AWG Cat.5e UTP 4P PVC UL CM White Color	500ft easy pull box	PROCAT5EW/500
24 AWG Cat.5e UTP 4P PVC UL CM Grey Color	500ft easy pull box	PROCAT5E/500
24 AWG Cat.5e UTP 4P PVC UL CM White Color	100mts box	PROCAT5EW/100M
24 AWG Cat.5e UTP 4P PVC UL CM Grey Color	100mts box	PROCAT5E/100M
24 AWG Cat.5e UTP 4P PVC UL CM White Color	1000mts drum	PROCAT5EW/1000M
24 AWG Cat.5e UTP 4P PVC UL CM Grey Color	1000mts drum	PROCAT5E/1000M

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All sizes and values without tolerances are reference values. Specifications are for product as supplied by Syscom: any modification or alteration afterwards of product may give different result.

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Cable ID: PROCAT5E-HLX028[1]

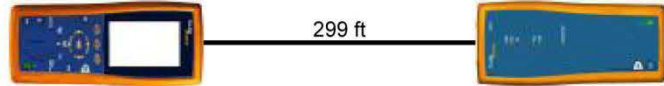
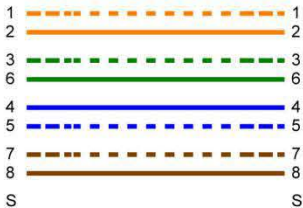
Test Summary: PASS

Date / Time: 09/08/2016 10:27:54am
 Headroom: 10.7 dB (NEXT 12-45)
 Test Limit: TIA Cat 5e Perm. Link
 Cable Type: Cat 5e UTP

Operator: Your Name
 Software Version: 2.7400
 Limits Version: 1.9300
 NVP: 69.0%

Model: DTX-1800
 Main S/N: 1739303
 Remote S/N: 1739304
 Main Adapter: DTX-PLA002
 Remote Adapter: DTX-PLA002

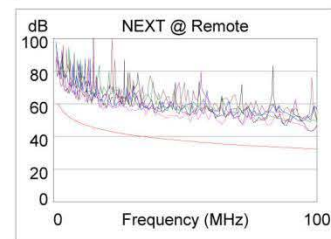
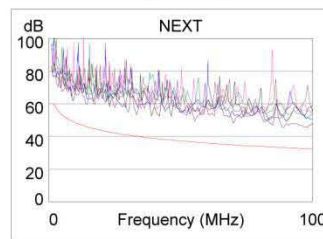
Wire Map (T568B)
PASS



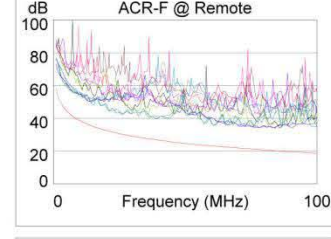
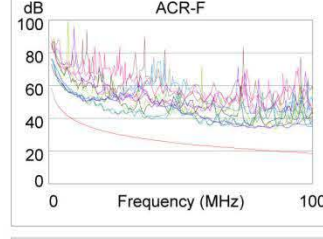
Length (ft), Limit 295	[Pair 78]	299
Prop. Delay (ns), Limit 498		459
Delay Skew (ns), Limit 44		18
Resistance (ohms)	[Pair 78]	15.9
Insertion Loss Margin (dB)	[Pair 36]	1.6
Frequency (MHz)	[Pair 36]	100.0
Limit (dB)	[Pair 36]	21.0



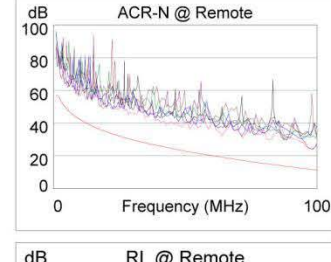
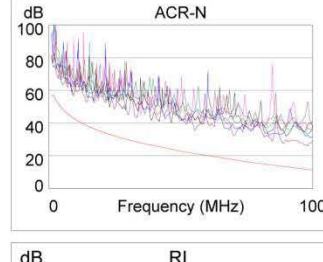
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36-45	12-45	36-45	12-45
NEXT (dB)	12.2	10.7	12.2	10.7
Freq. (MHz)	88.8	97.8	88.8	97.8
Limit (dB)	33.2	32.5	33.2	32.5
Worst Pair	36	45	36	45
PS NEXT (dB)	14.1	10.8	14.3	10.8
Freq. (MHz)	88.8	97.0	98.0	97.0
Limit (dB)	30.2	29.5	29.4	29.5



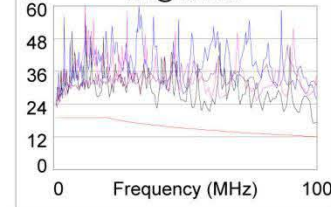
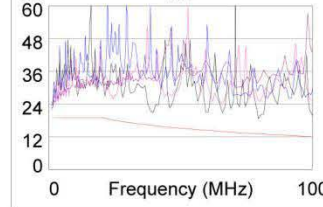
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	45-36	45-36	78-12	12-78
ACR-F (dB)	12.0	11.9	13.2	14.0
Freq. (MHz)	23.9	25.9	86.0	86.0
Limit (dB)	31.1	30.4	19.9	19.9
Worst Pair	36	12	12	12
PS ACR-F (dB)	13.1	14.0	14.4	14.0
Freq. (MHz)	65.8	76.3	86.3	76.8
Limit (dB)	19.3	18.0	16.9	17.9



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	12-78	12-45	36-45	12-45
ACR-N (dB)	13.2	12.4	14.5	12.4
Freq. (MHz)	9.0	97.8	98.0	97.8
Limit (dB)	43.3	11.7	11.7	11.7
Worst Pair	36	45	36	45
PS ACR-N (dB)	14.8	12.5	15.9	12.5
Freq. (MHz)	14.3	97.0	98.0	97.8
Limit (dB)	35.6	8.9	8.7	8.7



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	45	45	45	45
RL (dB)	3.5	4.8	5.3	4.8
Freq. (MHz)	39.0	98.8	79.8	98.8
Limit (dB)	16.1	12.1	13.0	12.1



Compliant Network Standards:
 100BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive