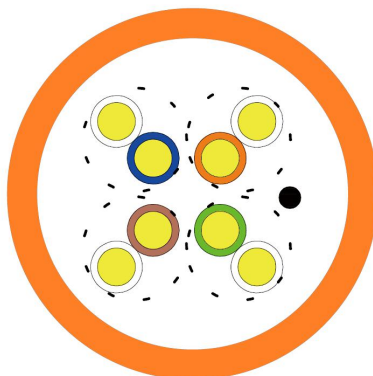


Category 5e UTP Cable

Part Number:PROCAT5EN



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-E488955

Flame resistance

IEC 60332-1
CMX
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 Orange RAL 2007

Mechanical properties

Minimum bending radius	Installation	8 x D
Temperature range	Installed	4 x D
	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
24AWG Cat.5e UTP 4P PVC UL CM White Color	1000ft easy pull box	PROCAT5EW
24AWG Cat.5e UTP 4P PVC UL CM Grey Color	1000ft easy pull box	PROCAT5E
24AWG Cat.5e UTP 4P PVC UL CM Orange Color	1000ft easy pull box	PROCAT5EN
24AWG Cat.5e UTP 4P PVC UL CM Gold Color	1000ft easy pull box	PROCAT5ED
24AWG Cat.5e UTP 4P PVC UL CM White Color	500ft easy pull box	PROCAT5EW/500
24AWG Cat.5e UTP 4P PVC UL CM Grey Color	500ft easy pull box	PROCAT5E/500
24AWG Cat.5e UTP 4P PVC UL CM Grey Color	100mts box	PROCAT5E/100M
24AWG Cat.5e UTP 4P PVC UL CM Grey Color	1000mts drum	PROCAT5E/1000M

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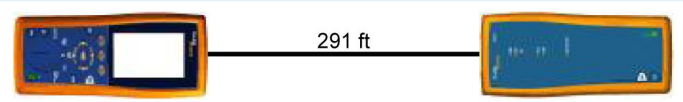
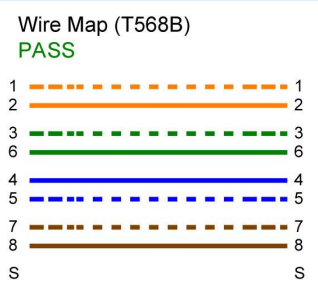
All sizes and values without tolerances are reference values. Specifications are for product as supplied by Syscom: any modification or alteration afterwards of product may give different result.

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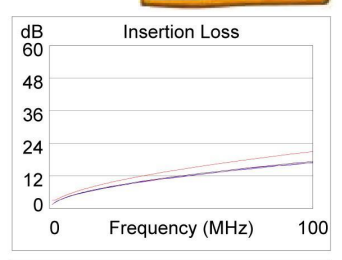


Cable ID: PROCAT5EN/1000-HLX058 **Test Summary: PASS**

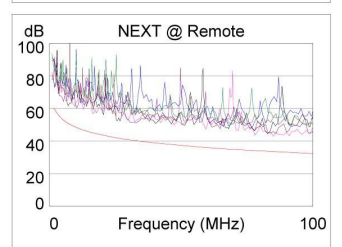
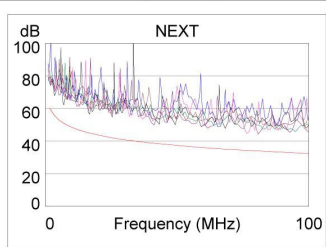
Date / Time: 10/08/2018 02:29:46pm Operator: Your Name Model: DTX-1800
 Headroom: 9.4 dB (NEXT 12-45) Software Version: 2.7400 Main S/N: 1739303
 Test Limit: TIA Cat 5e Perm. Link Limits Version: 1.9300 Remote S/N: 1739304
 Cable Type: Cat 5e UTP NVP: 72.0% Main Adapter: DTX-PLA002
Remote Adapter: DTX-PLA002



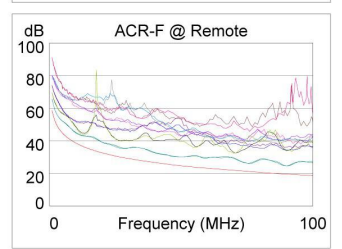
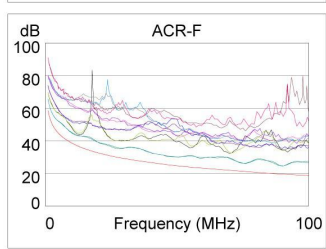
Length (ft), Limit 295	[Pair 78]	291
Prop. Delay (ns), Limit 498		427
Delay Skew (ns), Limit 44		16
Resistance (ohms)	[Pair 78]	15.3
Insertion Loss Margin (dB)	[Pair 45]	3.6
Frequency (MHz)	[Pair 45]	100.0
Limit (dB)	[Pair 45]	21.0



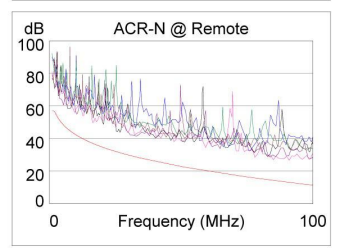
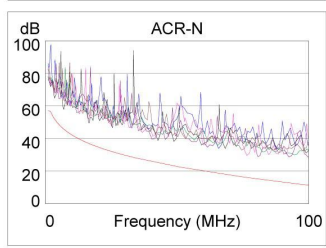
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	12-45	12-45	36-45	12-45
NEXT (dB)	10.4	9.4	10.4	9.4
Freq. (MHz)	76.5	85.0	81.0	85.0
Limit (dB)	34.2	33.5	33.8	33.5
Worst Pair	45	12	36	45
PS NEXT (dB)	11.6	10.3	12.1	10.4
Freq. (MHz)	40.8	78.0	81.0	85.0
Limit (dB)	35.7	31.1	30.8	30.5



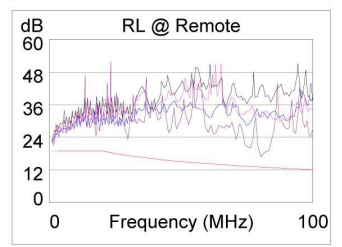
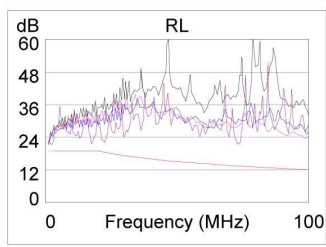
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36-45	45-36	36-45	36-45
ACR-F (dB)	4.9	4.9	4.9	5.0
Freq. (MHz)	89.5	89.8	89.5	90.3
Limit (dB)	19.6	19.6	19.6	19.5
Worst Pair	36	36	36	36
PS ACR-F (dB)	7.6	7.5	7.6	7.5
Freq. (MHz)	89.8	89.5	89.8	89.5
Limit (dB)	16.6	16.6	16.6	16.6



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	12-78	12-78	36-45	12-45
ACR-N (dB)	12.1	11.7	17.1	13.6
Freq. (MHz)	7.0	25.5	99.8	91.0
Limit (dB)	45.8	31.9	11.4	13.1
Worst Pair	12	45	36	45
PS ACR-N (dB)	13.4	12.3	16.8	15.4
Freq. (MHz)	7.0	32.3	92.5	98.8
Limit (dB)	42.8	25.9	9.8	8.6



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	78	78	78	78
RL (dB)	2.5	3.8	2.5	3.8
Freq. (MHz)	17.8	80.3	17.8	80.3
Limit (dB)	19.0	13.0	19.0	13.0



Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 100BASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive