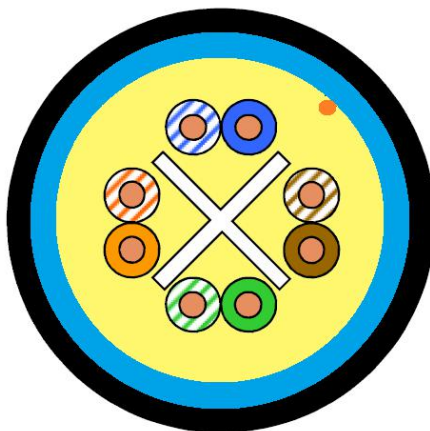


Category 6 UTP Cable for Outdoor Use

Part Number:PROCAT6GELX



Application

Voice, Data, Security and Video Applications.
IP Megapixel CCTV/Analog Installations
Wire Access Points
Gigabit Outdoor Video/data installations
Long distance PoE feeding
Generic cabling systems. Outdoor installations. Filled with compound to prevent water penetration

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 - E472815

Water Proof Rating

EN 50289-4-2

Construction

Conductor	Bare copper wire (AWG23/1)
Insulation	Polyethylene, $\varnothing 1.04 \pm 0.02$ mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core, with cross separator
Filling	Jelly Compound to prevent moisture migration.
Inner Sheath CM	PVC Grey RAL 5015
Outer Sheath	Black LDPE UV RATED

Mechanical properties

Minimum bending radius	Installation	10 x D
Temperature range	Installed	5 x D
	during operation	-40 °C ~ + 70 °C
	during installation	-20 °C ~ + 50 °C

Electrical properties @ 20 °C

Dielectric strength	2.5 KV dc-2 seconds
Conductor resistance	Max 7.00 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	≥ 50 dB

Nominal transmission characteristics @ 20 °C

Frequency (Mhz)	Impedance (Ω)	RL (dB)	ATT (dB/100)	NEXT (dB)	PS.NEXT (dB)	ELFEXT (dB)	PS-ELFEXT (dB)
0.772	100±15	19.44	1.84	76	74	70	67
1	100±15	20	2.04	74.3	72.3	67.8	64.8
4	100±15	23.01	3.81	65.3	63.3	55.8	52.8
10	100±15	25	5.99	59.3	57.3	47.8	44.8
16	100±15	25	7.6	56.2	54.2	43.7	40.7
20	100±15	25	8.52	54.8	52.8	41.8	38.8
25	100±15	24.32	9.57	53.3	51.3	39.8	36.8
31.25	100±15	23.64	10.74	51.9	49.9	37.9	34.9
62.3	100±15	21.54	15.48	47.4	45.4	31.9	28.9
100	100±15	20.1	19.92	44.3	42.3	27.8	24.8
125	100±22	19.42	22.49	42.8	40.8	25.9	22.9
200	100±22	18	29.15	39.8	37.8	21.8	18.8
250	100±32	17.32	33.04	38.3	36.3	19.8	16.8
300	-	-	36.10	41.0	38.0	32.0	30.0
400	-	-	41.70	39.0	36.0	30.0	28.0

Product Code Table

Product Description	Packing Length	Part Number
23AWG Cat.6 UTP 4P Blue PVC+LDPE Black Water Proof	1000ft Wooden Drum	PROCAT6GELX
23AWG Cat.6 UTP 4P Blue PVC+LDPE Black Water Proof	500ft Wooden Drum	PROCAT6GELX/500

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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: PROCAT6GELX-EHLX003

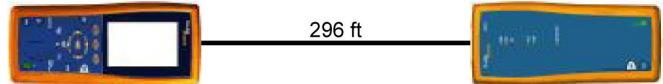
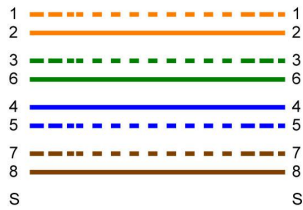
Test Summary: PASS

Date / Time: 04/29/2017 07:30:18am
 Headroom: 7.3 dB (NEXT 12-36)
 Test Limit: TIA Cat 6 Perm. Link
 Cable Type: Cat 6 UTP

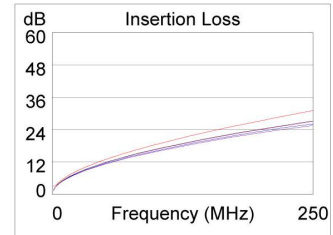
Operator: Your Name
 Software Version: 2.7400
 Limits Version: 1.9300
 NVP: 69.0%

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

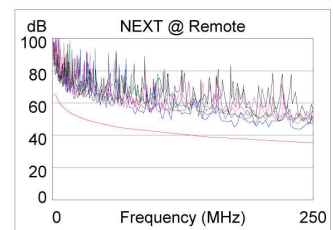
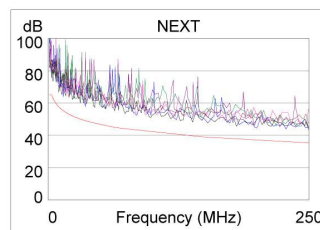
Wire Map (T568B)
PASS



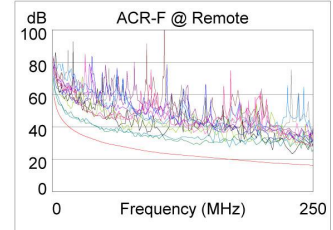
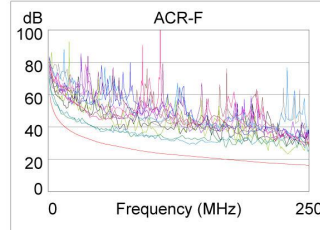
Length (ft), Limit 295	[Pair 78]	296
Prop. Delay (ns), Limit 498		456
Delay Skew (ns), Limit 44		20
Resistance (ohms)	[Pair 78]	12.4
Insertion Loss Margin (dB)	[Pair 36]	3.9
Frequency (MHz)	[Pair 36]	249.5
Limit (dB)	[Pair 36]	31.1



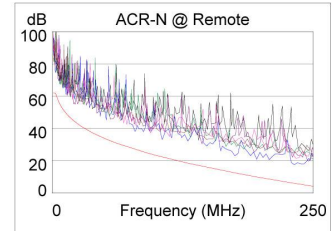
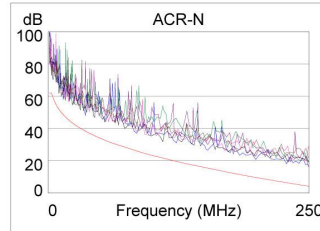
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	12-78	12-36	36-45	12-36
NEXT (dB)	7.4	7.3	7.9	7.3
Freq. (MHz)	110.0	174.5	250.0	232.5
Limit (dB)	41.2	37.9	35.3	35.9
Worst Pair	36	36	36	12
PS NEXT (dB)	6.8	8.2	6.8	8.6
Freq. (MHz)	250.0	195.5	250.0	237.0
Limit (dB)	32.7	34.5	32.7	33.1



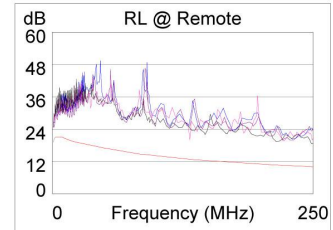
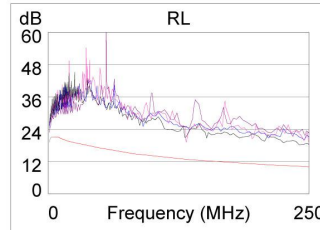
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36-45	45-36	78-12	12-78
ACR-F (dB)	5.8	5.8	5.9	6.3
Freq. (MHz)	12.5	12.5	230.0	230.0
Limit (dB)	42.3	42.3	17.0	17.0
Worst Pair	36	36	12	78
PS ACR-F (dB)	8.0	8.5	8.5	8.6
Freq. (MHz)	1.0	12.5	230.0	230.0
Limit (dB)	61.2	39.3	14.0	14.0



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	12-78	12-36	36-45	12-36
ACR-N (dB)	9.2	10.2	11.8	11.3
Freq. (MHz)	12.9	174.5	250.0	237.0
Limit (dB)	49.8	12.6	4.2	5.6
Worst Pair	12	78	36	36
PS ACR-N (dB)	9.7	10.5	10.7	12.7
Freq. (MHz)	12.8	7.3	249.5	237.0
Limit (dB)	47.5	53.0	1.7	2.9



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36	78	45	45
RL (dB)	6.4	6.5	7.7	8.6
Freq. (MHz)	132.5	4.6	239.5	248.5
Limit (dB)	12.8	21.0	10.2	10.0



Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive

LinkWare Version 6.2

