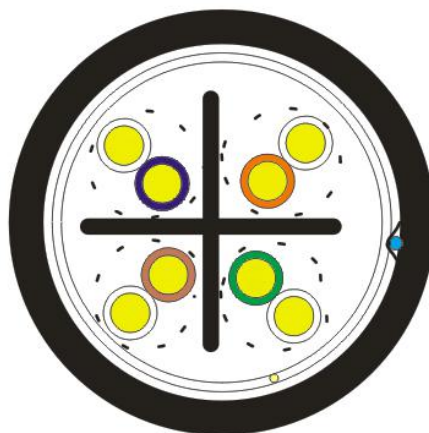


Category 6 FTP Cable

Part Number:PROCAT6EXT



Application

The perfect solution for installation runs that require the cable to be exposed to the elements.

Full Gigabit communications under extreme conditions.

IP Megapixel CCTV/Analog Outdoor Installations

Wire Access Points

Gigabit Outdoor Video/data installations

Long distance PoE feeding

550MHz Broadband Video Voice,T1,ISDN

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

ETL

Flame resistance

IEC 60332-1

CMX

CM

Construction

Conductor	Bare copper wire (AWG23/1)
Insulation	Polyethylene, $\varnothing 1.05\pm 0.03$ mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Shield	Aluminum Foil, 24AWG Bare Copper Drain Wire
Sheath CMX UV RATED	Black Color

Mechanical properties

Bending radius	without load	4xD
	with load	8xD
Temperature range	during operation	-20 °C to + 60 °C
	during installation	0 °C to + 50 °C



Electrical properties @ 20°C

Dielectric strength	2.5 KV dc-2 seconds
Conductor resistance	Max 7.0 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 427 ns/100m
Delay skew	Nominal 12 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core Coupling attenuation	≥ 55 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)
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
8	100±15	24.52	5.35	60.8	58.8	49.7	46.7
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
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±22	17.32	33.04	38.3	36.3	19.8	16.8

Product Code Table

Product Description	Packing Length	Part Number
23AWG Cat.6 FTP 4P PVC UL CMX UV RATED BLACK Color	1000ft easy pull box	PROCAT6EXT
23AWG Cat.6 FTP 4P PVC UL CMX UV RATED BLACK Color	500ft easy pull box	PROCAT6EXT/500



Cable ID: PROCAT6EXT/500-HLX003[1]

Test Summary: PASS

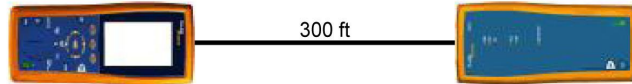
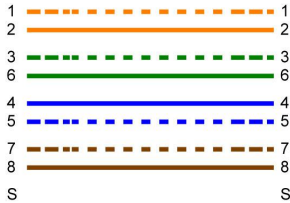
Date / Time: 04/25/2017 11:09:53am
Headroom: 5.1 dB (NEXT 36-78)
Test Limit: TIA Cat 6 Perm. Link
 Cable Type: Cat 6 FTP

Operator: Your Name
 Software Version: 2.7400
 Limits Version: 1.9300
 NVP: 70.0%

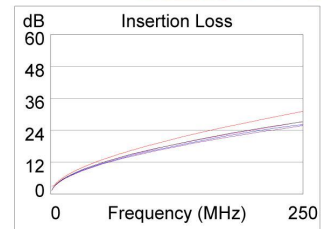
Model: DTX-1800
 Main S/N: 1739303
 Remote S/N: 1739304
 Main Adapter: DTX-PLA002
 Remote Adapter: DTX-PLA002

Wire Map (T568B)

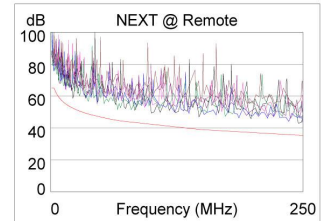
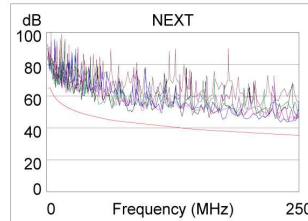
PASS



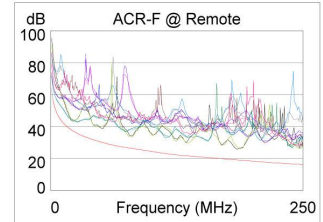
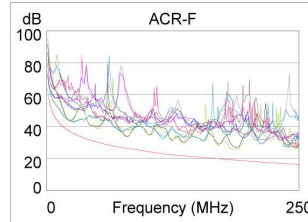
Length (ft), Limit 295	[Pair 78]	300
Prop. Delay (ns), Limit 498		455
Delay Skew (ns), Limit 44		19
Resistance (ohms)	[Pair 78]	12.2
Insertion Loss Margin (dB)	[Pair 36]	3.9
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	31.1



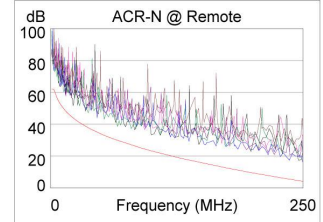
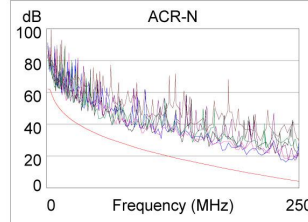
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	12-78	36-78	12-36	12-78
NEXT (dB)	6.4	5.1	6.9	7.4
Freq. (MHz)	83.8	66.5	237.0	246.0
Limit (dB)	43.1	44.7	35.7	35.5
Worst Pair	12	36	12	12
PS NEXT (dB)	6.8	6.7	7.2	8.2
Freq. (MHz)	80.5	66.5	237.0	245.5
Limit (dB)	40.9	42.2	33.1	32.8



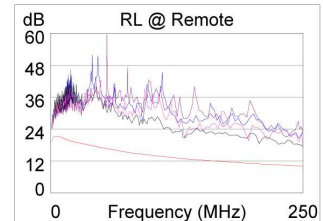
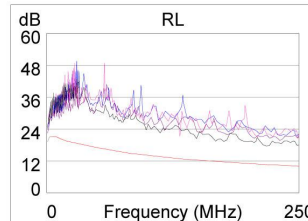
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	78-12	12-78	78-12	12-78
ACR-F (dB)	5.6	5.6	6.1	6.6
Freq. (MHz)	21.1	21.1	189.0	189.0
Limit (dB)	37.7	37.7	18.7	18.7
Worst Pair	36	36	36	78
PS ACR-F (dB)	7.7	7.8	10.4	10.9
Freq. (MHz)	1.3	1.5	240.5	247.0
Limit (dB)	59.3	57.7	13.6	13.3



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	12-78	36-78	12-36	12-36
ACR-N (dB)	7.3	7.1	10.7	12.1
Freq. (MHz)	8.8	66.5	237.0	250.0
Limit (dB)	53.6	29.8	5.6	4.2
Worst Pair	78	36	12	36
PS ACR-N (dB)	8.3	8.1	11.8	12.7
Freq. (MHz)	7.4	66.5	237.0	250.0
Limit (dB)	52.8	27.3	2.9	1.6



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	78	36	45	45
RL (dB)	5.9	6.7	6.9	7.3
Freq. (MHz)	4.6	4.5	219.5	250.0
Limit (dB)	21.0	21.0	10.6	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

