



GENESIS SERIES

General Communications Cable 4 Pair 23 AWG Cat 6 Plus Plenum Part No. 5102

Description:

4 pair Category 6 PLUS unshielded twisted pair (UTP) cable, plenum communication rated UL (or ETL) Listed with 23 AWG solid bare copper conductors, FEP insulation, FEP filler spacer, PVC jacket and a ripcord, 1000 - 0 (descending) footage marking. UL (or ETL) Verified to TIA/EIA-568 (Latest Revision) Category 6 and sweep tested to 500 MHz with values beyond 400 MHz for information only.

Physical Information:

UL Listing:	CMP	Conductor Color Code	Pair
Insulation Type	FEP	Blue & White/Blue	1
Jacket Type	PVC	Orange & White/Orange	2
Jacket Diameter:	0.240"	Green & White/Green	3
Voltage Rating:	300 V	Brown & White/Brown	4
Temperature Rating:	-20°C to 75°C		

Print Legend*:

**HONEYWELL P/N 5102 4PR23 CAT 6 PLUS EEEEE (AAA) CL2P OR CMP C(AAA)US
FT6 75C(RoHS) BBB VERIFIED TO TIA-568-(NNN) CAT 6 XXXXXXXX YYYY FT RM# A
B C D E F 1 2 3 4 5 6 7 8 9**

EEEEEE – UL or ETL listing #

AAA – UL or ETL

BBB – Verification UL or ETL

NNN – Most Recent Revision of TIA/EIA – 568 Standard (I.e. 568-C.2)

XXXXXXX – Tracking #

YYYY – Countdown Footage Marking Number

Electrical Characteristics:

Characteristic	Nominal Value	Maximum Value
DC Resistance	7.6 ohms/100m	9.38 ohms/100m
Resistance Unbalance	1.5%	5%
Capacitance	4.9 nF/100m	5.6 nF/100m
Capacitance Unbalance	50 pF/100m	330 pF/100m
Velocity of Propagation	69%	NA
Propagation Delay	515 ns/100m	570 ns/100m
Delay Skew	17 ns/100m	45 ns/100m

Frequency (MHz)	Impedance (Ohms)	Return Loss (Min, dB)	Insertion Loss (Max, dB/100m)	NEXT (Min, dB/100m)	PSNEXT (Min, dB/100m)	ELFEXT (Min, dB/100m)	PSELFEXT (Min, dB/100m)
1	100 +/- 15	20	2.0	74.3	72.3	67.8	64.8
4	100 +/- 15	23	3.8	65.3	63.3	55.8	52.8
8	100 +/- 15	25	5.3	60.8	58.8	49.7	46.7
10	100 +/- 15	25	6.0	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	8.5	54.8	52.8	41.8	38.8
25	100 +/- 15	24	9.5	53.3	51.3	39.8	36.8
31.25	100 +/- 15	24	10.7	51.9	49.9	37.9	34.9
62.5	100 +/- 15	22	15.4	47.4	45.4	31.9	28.9
100	100 +/- 15	20	19.8	44.3	42.3	27.8	24.8
155	100 +/- 20	19	25.2	39.8	37.8	21.8	18.8
200	100 +/- 22	18	29.0	38.3	36.3	19.8	16.8
250	100 +/- 25	17	32.8	37.1	35.1	18.3	15.3
350	100 +/- 25	16	39.8	35.3	33.3	15.8	12.8
500	100 +/- 25	15	48.9	33.8	31.8	13.8	10.8

Swept to 500 MHz, values beyond 400 MHz are for information only.