



# GameChanger Cable

Unshielded Twisted Pair  
Plenum Rated - CMP

258300310

46224PPWH (legacy part no)



## 1.0 Scope

- 1.1 This cable consists of 4 pair solid bare copper; color-coded FEP insulation; overall LSFR-PVC jacket. RoHS-2 Compliant

## 2.0 Construction

### 2.1 Conductor

- 2.1.1 Material: Bare Copper
- 2.1.2 Construction: Solid

### 2.2 Insulation

- 2.2.1 Material: Ultra Low-Loss Dielectric
- 2.2.2 O.D.: 0.044" nom
- 2.2.3 Color Code
  - Pair 1: White/Blue
  - Blue
  - Pair 2: White/Orange
  - Orange
  - Pair 3: White/Green
  - Green
  - Pair 4: White/Brown
  - Brown

### 2.3 Core Assembly:

- 2.3.1 4 twisted pairs cabled together to form the main core.

## 2.4 Jacket

- 2.4.1 Material: LSFR-PVC
- 2.4.2 OD: 0.248" nom
- 2.4.3 Color: White
- 2.4.4 Ripcord under jacket
- 2.4.5 Markings: "PAIGE GAMECHANGER PATENT PENDING CMP C(UL) EXXXXX ROHS SUN RES" (Ascending/Descending length marking)

## 2.5 Electrical Properties

- 2.5.1 Conductor Resistance:  $\leq 6.35\Omega/100m$
- 2.5.2 Insulation Resistance:  $\geq 5000M\Omega Km$  (DC500V Charged 1 Min)
- 2.5.3 Voltage Endurance: DC 1500V/min
- 2.5.4 Mutual Capacitance:  $\leq 7.0nF/100m$
- 2.5.5 Core-Core Resistance Unbalance:  $\leq 5\%$

## 2.6 Temperature Rating

- 2.6.1 -20°C to +75°C

## 2.7 Power over Ethernet Support

- 2.7.1 Class 1 - 8

**We want to hear from you!**

P.O. Box 368, Union, NJ 07083

Tel: 888.423.8947 [gamechanger@paigeelectric.com](mailto:gamechanger@paigeelectric.com)  
[www.paigedatacom.com/gamechanger](http://www.paigedatacom.com/gamechanger)



Frequency MHz	Return Loss ≥dB/100m	Attenuation ≤dB/100m	NEXT ≥dB/100m	PSNEXT ≥dB/100m
1	32.7	1.5	82.0	78.5
4	34.4	3.0	71.3	66.8
10	30.5	4.8	63.6	60.3
16	33.5	6.2	56.7	56.2
20	35.0	6.2	56.7	56.2
25	34.1	7.8	59.3	55.3
31.25	31.5	8.8	60.9	56.9
62.50	31.1	8.8	60.9	56.9
100	29.4	16.3	50.2	49.2

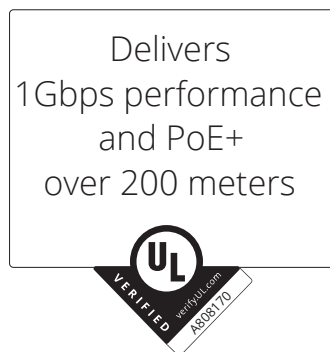
### Application

GameChanger cabling is designed specifically for transmitting Ethernet and can support all 8 classes of Power over Ethernet.

Maximum transmission distance exceeds Category Rating limits, but varies with equipment and settings used. If you have any questions about the maximum recommended distance for a particular installation, please contact us.

### UL Verified

GameChanger Cable is the first and only cable verified by UL to deliver 1Gb/s and PoE over 200m.



### Connectors

GameChanger cabling works with most Cat 6 jacks and patch cords, but is only recommended to work with Platinum Tools ezEX44 or ezEX48 RJ45 modular plugs.

### Alternate Constructions

GameChanger cabling is also available with:

- 258300310 - Plenum, White
- 258310333 - Riser, Yellow w/ Black Stripe
- 258330804 - OSP, Black
- 258340804 - OSP Shielded, Black

### Frequently Asked Questions

For FAQ and best practices please visit:  
[www.paigedatacom.com/gamechanger](http://www.paigedatacom.com/gamechanger)

### We want to hear from you!

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