



# GameChanger Cable

Unshielded Twisted Pair  
Riser Rated - CMR

258310311

U.S. Patent No.'s 10,453,589; 11,107,605;  
11,562,835; and 11,646,133



## 1.0 Scope

1.1 This cable consists of 4 pair solid bare copper; color-coded high density polyethylene (HDPE) insulation; overall FR-PVC jacket. RoHS-2 Compliant

## 2.0 Construction

### 2.1 Conductor

- 2.1.1 Material: Bare Copper
- 2.1.2 Construction: Solid 22 AWG

### 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: FR-PVC
- 2.4.2 Wall Thickness: 0.050" nom.
- 2.4.3 OD: .238" nom
- 2.4.4 Color: Gray
- 2.4.5 Ripcord under jacket

2.4.6 Markings: "PAIGE GAMECHANGER  
PATENT NO 10,453,589 ; 11,107,605 ;  
11,562,835 ; & 11,646,133 (UL) CMR  
--- C(UL) E191596XX 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:  $\leq 5\%$
- 2.5.6 Maximum Voltage: 300V (Per NEC, not suitable for Class 1 power applications)
- 2.5.7 NVP: 67%

## 2.6 Temperature Rating

- 2.6.1 -20°C to +75°C

## 2.7 Power over Ethernet Support

- 2.7.1 Class 1 - 8

## 3.0 Weights and Dimensions

### 3.1 Put Up

- 3.1.1 Length: 1,000 ft box
- 3.1.2 Weight: 29 lbs
- 3.1.3 Dimensions: 15" x 12" x 15"

We want to hear from you!

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Frequency MHz	Return Loss ≥dB/100m	Insertion Loss ≤dB/100m	NEXT ≥dB/100m	PSNEXT ≥dB/100m
1	24	1.5	90	87
10	31	4.8	75	72
20	32	7.0	64	61
100	26	16.1	50	47
200	24	23.2	48	45
250	21	26.1	47	44
350	20	31.4	45	42
500	19	38.3	43	40
550	18	40.4	42	39

\*Values above 250 MHz are for engineering information only

### Application

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

GameChanger Cable can deliver 2.5Gbps and 100W PoE up to 656 feet (200m) or if you need to go farther, GameChanger Cable can deliver 10Mbps and 100W PoE up to 850 feet (259m).

### Connectors

GameChanger cables have 22 AWG conductors. So when punching down to a jack or a patch panel, any Cat6 connectivity will work. If you are using a RJ45 connector, check out this termination guide: <https://paigedatacom.com/uploads/Media/4/GameChanger%20Termination%20Guide.pdf>



### Alternate Constructions

GameChanger cabling is also available with:

- 258310333 - Riser, Yellow w/ White Stripe
- 258300336 - Plenum, Blue w/ White Stripe
- 258300310 - Plenum, White
- 258330804 - OSP, Black
- 258340804 - OSP Shielded, Black
- 258802404 - Class I, Division 1 Armored

### Frequently Asked Questions

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

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