



GameChanger Cable

Shielded Twisted Pair
Plenum Rated - CMP

258370506

U.S. Patent No.'s 10,453,589; 11,107,605;
11,562,835; 11,646,133 and 12,142,389



1.0 Scope

1.1 This cable consists of 4 pair solid bare copper; color-coded FEP insulation; inner and outer LSZH FR PVC jacket with a aluminum/polyester tape shield with 26 AWG tinned copper drain wire in between the two jackets . Compliant with c(UL), CMP Compliant, UL Subject 444 Communication Cables, Sunlight Resistant, California State Fire Marshal Approved, RoHS

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: FEP
- 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: Inner: LS-FR-PVC
Outer: LS-FR-PVC

- 2.4.2 OD: Inner: 0.224" nom
Outer: 0.280" nom

- 2.4.3 Color: Blue

- 2.4.4 Ripcord under jacket

- 2.4.5 Markings: "PAIGE(R) GAMECHANGER (R) US PATENT NO 10,453,589 11,107,605 12,142,389 F/UTP 22AWG 4PR E191596-W C(UL)US CMP 90C --- ROHS-2 VERIFIED TO TIA-568.2-D CAT 6 YYMMDD hh:mm XXXXFT/XXXXFT" (Ascending/Descending length)

2.5 Electrical Properties

- 2.5.1 Conductor Resistance: $\leq 9.38\Omega/100m$
- 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: 68%

2.6 Temperature Rating

- 2.6.1 Installation: $-0^{\circ}C$ to $+60^{\circ}C$
- 2.6.2 Operation: $-20^{\circ}C$ to $+90^{\circ}C$

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 Reel-In-A-Box
- 3.1.2 Weight: 43 lbs
- 3.1.3 Dimensions: 14" x 9.5" x 13.5"

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 is also in Plenum / FT6 in the following colors:

- 258300336 - Plenum, Blue w/ White Stripe
- 258300301 - Plenum, Orange
- 258300303 - Plenum, Purple
- 258300304 - Plenum, Black
- 258300309 - Plenum, Green

Frequently Asked Questions

For FAQ and best practices please visit: www.paigedatacom.com/gamechanger

Regional Availability

United States, Latin America, Middle East

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