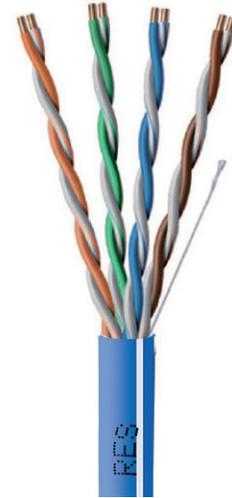# GameChanger Cable

Unshielded Twisted Pair Plenum Rated - CMP

258300336
46224PPBLW (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
2.1.1   Material: Ultra Low-Loss Dielectric
2.1.2   O.D.: 0.044" nom
2.1.3   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: Blue with White Stripe
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: ≤6.35Ω/100m
2.5.2   Insulation Resistance: ≥5000MΩKm (DC500V Charged 1 Min)
2.5.3   Voltage Endurance: DC 1500V/min
2.5.4   Mutual Capacitance: ≤7.0nF/100m
2.5.5   Core-Core Resistance Unbalance: ≤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

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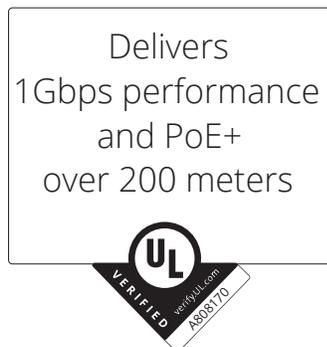| Frequency MHz	Return Loss ≥dB/100m	Attenuation ≤dB/100m	NEXT ≥dB/100m	PSNEXT ≥dB/100m
1	32.7	1.5	82.0	78.5
4	34.4	3.0	71.3	66.8
10	30.5	4.8	63.6	60.3
16	33.5	6.2	56.7	56.2
20	35.0	6.2	56.7	56.2
25	34.1	7.8	59.3	55.3
31.25	31.5	8.8	60.9	56.9
62.50	31.1	8.8	60.9	56.9
100	29.4	16.3	50.2	49.2

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.

Delivers
1Gbps performance
and PoE+
over 200 meters

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

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