



GameChanger Cable

Unshielded Twisted Pair
Riser Rated - CMR

258310333

46224PRYWB [legacy part no]



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

2.2 Insulation

- 2.2.1 Material: Ultra Low-Loss Dielectric
- 2.2.3 O.D.: 0.044" nom
- 2.2.4 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 stranded 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: 6.2 ± 0.5 mm
- 2.4.4 Color: Yellow with 2 Black Stripes
- 2.4.5 Ripcord under jacket
- 2.4.6 Markings: "PAIGE GAMECHANGER PATENT PENDING CMR UL E191596XX ROHS SUN RES" (Ascending/Descending length marking)

2.5 Electrical Properties

- 2.5.1 Conductor Resistance: $\leq 9.38 \Omega/100m$
- 2.5.2 Insulation Resistance: $\geq 5000 M\Omega Km$ (DC500V Charged 1 Min)
- 2.5.3 Voltage Endurance: DC 1500V/min
- 2.5.4 Mutual Capacitance: $\leq 7.0 nF/100m$
- 2.5.5 Core-Core Resistance Unbalance: $\leq 5\%$

2.6 Temperature Rating

- 2.6.1 -20°C to +75°C

We want to hear from you!

P.O. Box 368, Union, NJ 07083

Tel: 888.423.8947 gamechanger@paigeelectric.com

www.paigeelectric.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 Power over Ethernet and IP video and control traffic. Any use other use is not covered under the warranty.

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.

Connectors

GameChanger cabling works with most Category 6 connectors.

Alternate Constructions

GameChanger cabling is also available with:

- 258300336 - Plenum, Blue w/ White Stripe
- 258300310 - Plenum, White
- 258330804 - OSP, Black

Frequently Asked Questions

For FAQ and best practices please visit:
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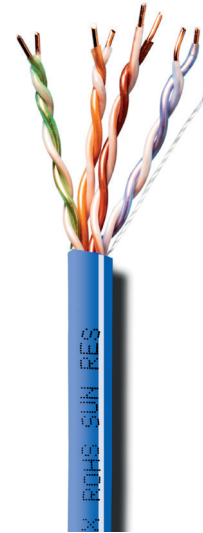


GameChanger Cable

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

- 2.2.1 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 stranded 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 2 White Stripes
- 2.4.4 Ripcord under jacket
- 2.4.5 Markings: "PAIGE GAMECHANGER PATENT PENDING CMP UL EXXXXX ROHS SUN RES" (Ascending/Descending length marking)

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: $\leq 5\%$

2.6 Temperature Rating

- 2.6.1 $-20^{\circ}C$ to $+75^{\circ}C$

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Application

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Connectors

GameChanger cabling works with most Category 6 non shielded connectors..

Alternate Constructions

GameChanger cabling is also available with:

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

Frequently Asked Questions

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GameChanger OSP Cable

Unshielded Twisted Pair
CM-LS

258330804



1.0 Scope

1.1 This cable consists of 4 pair solid bare copper; color-coded high density polyethylene (HDPE) insulation; water-proof gel; overall LSZH 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
- 2.2.3 O.D.: 0.044" nom
- 2.2.4 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 and fully flooded with a waterproof gel to form the main core.

2.4 Jacket

- 2.4.1 Material: LSZH FRPE
- 2.4.2 Wall Thickness: 0.050" nom.
- 2.4.3 OD: 0.305" nom.
- 2.4.4 Color: Black
- 2.4.5 Ripcord under jacket
- 2.4.6 Markings:
"PAIGE® GAMECHANGER™
PATENT PENDING (UL) CM-LS
E191596XX ROHS SUN RES"
(Ascending/Descending length
marking)

2.5 Electrical Properties

- 2.5.1 Conductor Resistance:
≤9.38Ω/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

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Connectors

GameChanger cabling works with most Category 6 connectors.

Alternate Constructions

GameChanger cabling is also available with:

- 258310333 - Riser, Yellow w/ Black Stripe
- 258300336 - Plenum, Blue w/ White Stripe
- 258300310 - Plenum, White

Frequently Asked Questions

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GameChanger Shielded OSP Cable

Shielded Twisted Pair
CM Rated

258340804



1.0 Scope

1.1 This cable consists of 4 pair solid bare copper; color-coded high density polyethylene (HDPE) insulation; water-proof gel; inner and outer FRPE jacket with a aluminum/polyester tape shield with 24 AWG tinned copper drain wire in between the two jackets . 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
- 2.2.3 O.D.: 0.044" nom
- 2.2.4 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 and fully flooded with a waterproof

gel to form the main core which is then jacketed with a FRPE inner jacket.

2.4 Jackets

- 2.4.1 Material: FRPE
- 2.4.2 Inner Wall Thickness: 0.025" nom.
- 2.4.3 Outer Wall Thickness: 0.025" nom
- 2.4.3 Total OD: 0.31" nom.
- 2.4.4 Color: Black
- 2.4.5 Ripcord under jacket
- 2.4.6 Markings:
"PAIGE® GAMECHANGER CABLE™
PATENT PENDING SHIELDED OSP
(UL) CM DIRECT BURIAL ROHS
SUN RES" (Ascending/Descending
length marking)

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:
 $\leq 5\%$

2.6 Temperature Rating

- 2.6.1 -20°C to +75°C

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Frequency MHz	Return Loss ≥dB/100m	Attenuation ≤dB/100m	NEXT ≥dB/100m	PSNEXT ≥dB/100m
1	28	1.5	77	75
4	31	3.0	68	66
10	33	4.8	62	60
16	33	6.2	59	57
20	33	6.2	58	56
25	32	7.8	56	54
31.25	31	8.8	55	53
62.50	29	8.8	50	48
100	28	16.3	47	45

Application

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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.

Connectors

GameChanger cabling works with most Category 6 connectors. For best results, Paige recommends Platinum Tools ezEX44 cat 6 connectors.

Alternate Constructions

GameChanger cabling is also available with:

- 258300336 - Plenum, Blue w/ White Stripe
- 258300310 - Plenum, White
- 258330804 - OSP (non shielded), Black
- Custom Colors

Frequently Asked Questions

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