

GameChanger Cable

Unshielded Twisted Pair Riser Rated - CMR

258310333

U.S. Patent No.'s 10,453,589 & 11,107,605



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

2.1.1 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: FR-PVC

2.4.2 Wall Thickness: 0.050" nom.

2.4.3 OD: .238" nom

2.4.4 Color: Yellow with a white stripe

2.4.5 Ripcord under jacket

2.4.6 Markings: "PAIGE GAMECHANGER PATENT NO 10,453,589 & 11,107,605 (UL) CMR --- C(UL) FT4 E191596XX 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%

2.5.6 Maximum Voltage: 300V (Per NEC, not suitable for Class 1 power applications)

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"



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

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%20 Termination%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

We want to hear from you!

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SCAN ME





GameChanger Cable

Unshielded Twisted Pair Plenum Rated - CMP

258300310

U.S. Patent No.'s 10,453,589 & 11,107,605



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 22 AWG

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

Greer

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 NO. 10,453,589 (& 11,107,605UL) CMP--- C(UL) FT6 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%

2.5.6 Maximum Voltage: 300V (Per NEC, not suitable for Class 1 power applications)

2.6 Temperature Rating

2.6.1 -20°C to +75°C

2.7 Power over Ethernet Support

2.7.1 Class 1 - 8

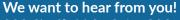
3.0 Weights and Dimensions

3.1 Put Up

3.1.1 Length: 1,000 ft box

3.1.2 Weight: 32 lbs

3.1.3 Dimensions: 15" x 12" x 15"



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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
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100	26	16.1	50	47
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Connectors

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

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GameChanger Cable

Unshielded Twisted Pair Plenum Rated - CMP

258300336 46224PPBLW (legacy part no)

U.S. Patent No.'s 10,453,589 & 11,107,605



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 22 AWG

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 a white stripe

2.4.4 Ripcord under jacket

2.4.5 Markings: "PAIGE GAMECHANGER

PATENT NO. 10,453,589 & 11,107,605 (UL) CMP --- C(UL) FT6 EXXXXX ROHS SUN RES" (Ascending/Descendinglength 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%

2.5.6 Maximum Voltage: 300V (Per NEC, not suitable for Class 1 power applications)

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: 32 lbs

3.1.3 Dimensions: 15" x 12" x 15"



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Frequency MHz	Return Loss ≥dB/100m	Insertion Loss ≤dB/100m	NEXT ≥dB/100m	PSNEXT ≥dB/100m
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350	20	31.4	45	42
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Connectors

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Guide.pdf

Alternate Constructions

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- 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

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GameChanger LSZH OSP Cable

Unshielded Twisted Pair LSZH OSP Direct Burial

258330804

U.S. Patent No.'s 10,453,589 & 11,107,605



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 / OSP Direct Burial 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

2.1.1 Material: Ultra Low-Loss Dielectric

2.1.3 O.D.: 0.044" nom

2.1.4 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: PE

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

marking)

Electrical Properties

2.5.1 Conductor Resistance: ≤6.35Ω/100m

Markings: "PAIGE® GAMECHANGER™

PATENT NO. 10,453,589 & 11,107,605

RES" (Ascending/Descending length

OSP C(UL) CM-LS E191596XX ROHS SUN

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%

2.5.6 Maximum Voltage: 300V (Per NEC, not suitable for Class 1 power applications)

2.6 Temperature Rating

2.4.6

2.5

2.6.1 -20°C to +75°C (installation) 2.6.2 -40°C to +75°C (operating)

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: 52 lbs

3.1.3 Dimensions: 16" x 12" x 16"

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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

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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%20
Termination%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

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GameChanger Shielded OSP Cable

Shielded Twisted Pair



U.S. Patent No.'s 10,453,589 & 11,107,605



This cable consists of 4 pair solid bare copper; 1.1 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

Construction: Solid 22 AWG 2.1.2

2.2 Insulation

2.1.1 Material: Ultra Low-Loss Dielectric

2.1.3 O.D.: 0.044" nom

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

Jackets 2.4

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: 0.380" nom.
- 2.4.4 Color: Black
- 2.4.5 Ripcord under jacket

Markings: "PAIGE® GAMECHANGER 2.4.6 CABLE™ SHIELDED OSP PATENT NO. 10,453,589 & 11,107,605 DIRECT BURIAL 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)

Voltage Endurance: DC 1500V/min 2.5.3

2.5.4 Mutual Capacitance: ≤7.0nF/100m

2.5.5 Core-Core Resistance Unbalance: ≤5%

2.5.6 Maximum Voltage: 300V (Per NEC, not suitable for Class 1 power applications)

2.6 **Temperature Rating**

2.6.1 -20°C to +75°C (installation) -40°C to +75°C (operating) 2.6.2

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 feet reel

Weight: 74 lbs 3.1.2

3.1.3 Dimensions: 16" x 12" x 16"





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
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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%20
Termination%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

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GameChanger Hazardous Location Cable

ITC-HL Class I Division 1 Armored

258802404

U.S. Patent No.'s 10,453,589 & 11,107,605



1.1 This cable consists of 4 pair solid bare copper; color-coded Fluorinated Ethylene Propylene (FEP) insulation; inner FEP and PVC jacket, Coninuously Corrugated Welded (CCW) Armor and outer PVC jacket. RoHS-2 Compliant, Sunlight Resistant, Direct Burial. Suitable for Class I Div 1, Class II Div 1 installations

UL2250 Listed Type ITC 300V UL2225 Listed Type ITC-HL 300V for use in Class 1 Div 1 Hazardous locations.

2.0 Construction

2.1 Conductor

2.1.1 Material: Bare Copper2.1.2 Construction: Solid 22 AWG

2.2 Insulation

2.2.1 Material: FEP 2.2.3 O.D.: 0.0425" 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 to form the main core which is then jacketed with FEP and PVC inner jackets.

2.4 Jackets

2.4.1 Material: FEP/PVC/PVC

2.4.2 Natural FEP, 0.218" nom. diameter

2.4.3 Black. PVC. 0.568" nom. diameter

2.4.4 Outer OD: 0.95" nom.

2.4.5 Color: Black

2.4.6 Continuously Corrugated Welded Aluminum Armor between jackets.

2.4.7 Markings: PAIGE GAMECHANGER
CABLE™ PATENT # 10,453,589 &
11,107,60522 AWG 4 Pair (UL) Type
ITC-HL Sun Res ROHS (Ascending/
Descending length marking)

2.5 Electrical Properties

2.5.1 Conductor Resistance: ≤9.38Ω/100m
2.5.2 Max DC Resistance Unbalance: ≤5%
2.5.3 Nom. Velocity of Propagation 68%

2.6 Physical Properties

2.6.1 Nominal Cable Weight: .331Lbs / ft 2.6.2 Bend Radius: Min: 14"

2.7 Temperature Rating

2.7.1 -20°C to +60°C (installation) 2.7.2 -50°C to +90°C (operating)

3.0 Weights and Dimensions

3.1 Package: Ordered by the foot, shipped on a

reel

3.2 Weight: .34 lbs/ ft (without reel)



200 Sheffield St, Suite 302, Mountainside, NJ 07092

Tel: 888.423.8947 cgorders@paigeconnected.com





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

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Connectors

Guide.pdf

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SCAN ME

HL-Glands

ITC-HL GameChanger Cable works well with Crouse-Hinds Terminator[™] TMCX Cable Glands

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 (non shielded), Black
- 258340804 OSP (Shielded), Black

Frequently Asked Questions

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