



GameChanger OSP Cable

Unshielded Twisted Pair
Direct Burial

258330804

US Patent No. 10,453,589



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 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

- 2.2.1 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: 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

- 2.4.6 Markings: "PAIGE® GAMECHANGER™ PATENT NO. 10,453,589) DIRECT BURIAL 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: $\leq 5\%$

2.6 Temperature Rating

- 2.6.1 $-20^{\circ}C$ to $+75^{\circ}C$ (installation)
- 2.6.2 $-40^{\circ}C$ to $+75^{\circ}C$ (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: 46 lbs
- 3.1.3 Dimensions: 16" x 12" x 16"

We want to hear from you!

200 Sheffield St, Suite 302, Mountainside, NJ 07092

Tel: 888.423.8947 gamechanger@paigeelectric.com



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:

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