



GameChanger OSP Direct Burial UTP Cable

Unshielded Twisted Pair
OSP Direct Burial

258320804

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



1.0 Scope

1.1 This cable consists of 4 pair solid bare copper; color-coded medium density polyethylene (MDPE) insulation; water-proof gel; overall 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

- 2.2.1 Material: Ultra Low-Loss Dielectric
- 2.2.3 O.D.: 0.047 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: MDPE
- 2.4.2 OD: 0.300" nom.
- 2.4.3 Color: Black
- 2.4.4 Ripcord under jacket

- 2.4.5 Markings: "PAIGE® GAMECHANGER™ 258320804 OSP DIRECT BURIAL 22/4PR ROHS SUNRES PATENT NO 10,453,589; 11,107,605;11,562,835; & 11,646,133" (Ascending/Descending length marking)

2.5 Electrical Properties

- 2.5.1 Conductor Resistance: $\leq 9.38\Omega/100m$
- 2.5.2 Mutual Capacitance: $\leq 7.0nF/100m$
- 2.5.3 Core-Core Resistance Unbalance: $\leq 5\%$
- 2.5.4 Maximum Voltage: 300V (Per NEC, not suitable for Class 1 power applications)
- 2.5.5 NVP: 68%

2.6 Temperature Rating

- 2.6.1 $-20^{\circ}C$ to $+60^{\circ}C$ (installation)
- 2.6.2 $-45^{\circ}C$ to $+60^{\circ}C$ (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: 38 lbs
- 3.1.3 Dimensions: 16" x 12" x 16"

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 cabling is also available with:

- 258330804 - OSP, CM-LS Black
- 258340804 - OSP Shielded, Black
- 258880845 - AIA wrapped OSP Shielded

Frequently Asked Questions

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

Regional Availability

North America, Latin America, Europe, Middle East

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