



GameChanger Shielded OSP Cable

Shielded Twisted Pair
CM, 600V AWM

258340804

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; inner and outer LSZH FR Polyolefin jacket with a aluminum/polyester tape shield with 24 AWG tinned copper drain wire in between the two jackets . Compliant with c(UL), CM Compliant, UL Subject 444 Communication Cables, AWM Style 22427 80C 600V, UL Subject 758 Appliance Wiring Material, Sunlight Resistant, California State Fire Marshal Approved, RoHS

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 which is then jacketed with a FRPO 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: 0.380" nom.
- 2.4.4 Color: Black
- 2.4.5 Ripcord under jacket
- 2.4.6 Markings: "PAIGE(R) GAMECHANGER(TM) 258340804 US PATENT NO.10,453,589 and 11,107,605 SHIELED OSP c(UL)us 22/4P CM-ST1 E191569++ or AWM 22427 80C 600V--- RoHS SUN RES --- DIRECT BURIAL --- CERTIFIED TO TIA/EIA CAT 6 (01-12345) 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: $\leq 5\%$
- 2.5.6 Maximum Voltage: 600V
- 2.5.7 NVP: 60%

2.6 Temperature Rating

- 2.6.1 -20°C to +80°C (installation)
- 2.6.2 -44°C to +80°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 feet reel
- 3.1.2 Weight: 63 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:

- 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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