



GameChanger Hazardous Location Cable

ITC-HL Class I Division 1
Armored

258802404

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 Fluorinated Ethylene Propylene (FEP) insulation; inner FEP and PVC jacket, Continuously 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 Copper

2.1.2 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: $\leq 9.38\Omega/100m$

2.5.2 Max DC Resistance Unbalance: $\leq 5\%$

2.5.3 Nom. Velocity of Propagation 67%

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)

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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

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>



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

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

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