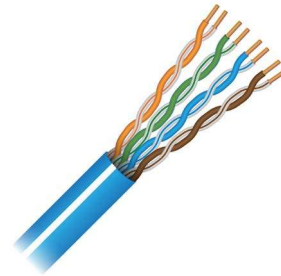




# GameChanger<sup>®</sup> Cable

## Product Specifications



## UNSHIELDED, TWISTED PAIR EUROCLASS B2ca-s1a, d1, a1

### 1.0 SCOPE

#### 1.1 Description

- 1.1.1** This cable consists of 4 pair solid bare copper; color-coded PE insulation; overall LSZH-FRPE jacket. EN50575:2014 B2ca-s1a,d1,a1.

#### 1.2 Standards Compliance

- 1.2.1** ANSI/TIA-568.2-E (2024); ISO/IEC 11801 (Edition 2.2); IEC 61156-5 (Edition 2.1).  
Flame Test: IEC 60332-1-2, IEC 61034-1/61034-2, IEC 60754-2; EU Directive 2011/65/EU & 2015/863/EU, EU Directive 2006/95/EC (LVD). Compliance: CPR Class B2ca; Verified to TIA-568.2-E CAT 6, CE, 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: Polyolefin (PO)  
**2.2.2** O.D.: 1.10+/- 0.02mm  
**2.2.3** 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: LSZH FRPE  
**2.4.2** Wall Thickness: 0.60mm  
**2.4.3** O.D.: 6.2 mm nom.  
**2.4.4** Color:  
10  White  
36  Blue + White

- 2.4.5** Ripcord: Under jacket

- 2.4.6** Markings: PAIGE GAMECHANGER<sup>®</sup> 2585023-- PATENTS: PAIGEDATACOM.COM/PATENTS UTP 22AWG 4PR SOL CAT6 FRLSZH 60C 3P CPR CLASS B2ca-s1a, d1, a1 --- CERTIFIED TO TIA-568.2-E CAT6 CE RoHS COMPLIANT YYMMDD hh:mm XXXXM/XXXXM

#### 2.5 Electrical Properties

- 2.5.1** Conductor Resistance:  $\leq 6.35\Omega/100m$   
**2.5.2** Mutual Capacitance:  $\leq 5.6nF/100m$   
**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: 70%

#### 2.6 Temperature Rating

- 2.6.1** Installation: 0°C to +60°C  
**2.6.2** Operation: 0°C to +60°C

#### 2.7 Power over Ethernet Support

- 2.7.1** Class: 1-8 (Up to 100W)

### 3.0 WEIGHTS AND DIMENSIONS

#### 3.1 Put Up: REELEX Box

- 3.1.1** Length: 1,000' (305 m)  
**3.1.2** Weight: 30 lbs (13.61 kg)  
**3.1.3** Dimensions: 13" x 10" x 9"  
(330 mm x 254 mm x 229 mm)

#### Regional Availability

UK, EU

## Electrical Properties Table

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:



**Scan to view**

### Frequently Asked Questions

For FAQ and best practices please visit: [paigedatcom.com/gamechanger](http://paigedatcom.com/gamechanger)



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