



GameChanger Cable

Unshielded Twisted Pair

C_{ca} -s1a, d0, a1

258502336 500m drum

258500336 305m box



1.0 Scope

1.1 This cable consists of 4 pair solid bare copper; color-coded FEP insulation; overall LSZH-FRPE jacket. EN50575:2014 C_{ca} -s1a, d0, a1 and CE/RoHS-2 Compliant

2.0 Construction

2.1 Conductor

- 2.1.1 Material: Bare Copper
- 2.1.2 Construction: Solid 22AWG
- 2.1.3 O.D.: 0.610 mm min.

2.2 Insulation

- 2.2.1 Material: Ultra Low-Loss Dielectric
- 2.2.2 O.D.: 1.1176 mm nom.
- 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 stranded together to form the main core.

2.4 Jacket

- 2.4.1 Material: LSZH-FRPE with UV Resistance

2.4.2 OD: 6.2992 mm nom.

2.4.3 Color: Blue with White Stripe

2.4.4 Ripcord under jacket

2.4.5 Markings: "PAIGE(R)
GAMECHANGER PATENT
PENDING 22 AWG EN50575:2014
CE Cca-s1b,d1,a1 RoHSXXXXXX
(Ascending/ Descending
length marking)

2.5 Electrical Properties

- 2.5.1 Conductor Resistance:
≤9.38Ω/100m
- 2.5.2 Insulation Resistance:
≥5000MΩKm
(DC500V Charged 1 Min)
- 2.5.3 Voltage Endurance: DC 1500V/min
- 2.5.4 Mutual Capacitance: ≤7.0nF/100m
- 2.5.5 Core-Core Resistance
Unbalance: ≤5%

2.6 Temperature Rating

- 2.6.1 -20°C to +75°C (installation)
- 2.6.2 -40°C to +75°C (operating)

2.7 Power over Ethernet Support

- 2.7.1 Class 1 - 8

We want to hear from you!

P.O. Box 368, Union, NJ 07083

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www.paigedatacom.com/gamechanger



| 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.

Connectors

GameChanger cabling works with most Category 6 non shielded connectors. Make sure your connector supports 22AWG conductors.

Alternate Constructions

GameChanger cabling is also available with:

- 258330804 - OSP, Black
- 258340804 - OSP Shielded, Black

Frequently Asked Questions

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

Regional Availability

United Kingdom, Europe, Middle East

We want to hear from you!

Tel: 888.423.8947 gamechanger@paigeelectric.com
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