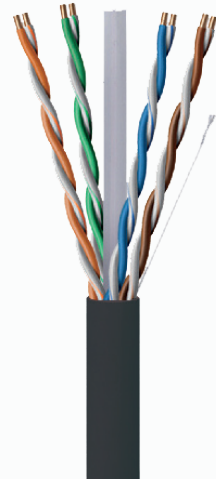




# GameChanger OSP Cable

Unshielded Twisted Pair  
CM-LS

258330804



## 1.0 Scope

**1.1** This cable consists of 4 pair solid bare copper; color-coded high density polyethylene (HDPE) insulation; LSZH X-Web; water-proof gel; overall LSZH jacket. RoHS-2 Compliant

## 2.0 Construction

### 2.1 Conductor

- 2.1.1 Material: Bare Copper
- 2.1.2 Construction: Solid

### 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 stranded together

around a central X-web and fully flooded with a waterproof gel to form the main core.

### 2.4 Jacket

- 2.4.1 Material: LSZH FRPE
- 2.4.2 Wall Thickness: 0.050" nom.
- 2.4.3 OD: 0.305" nom.
- 2.4.4 Color: Black
- 2.4.5 Ripcord under jacket
- 2.4.6 Markings:  
"PAIGE® GAMECHANGER™  
PATENT PENDING (UL) CM-LS  
E191596XX ROHS SUN RES"  
(Ascending/Descending length  
marking)

### 2.5 Electrical Properties

- 2.5.1 Conductor Resistance:  
 $\leq 9.38\Omega/100m$
- 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:  
 $\leq 5\%$

**We want to hear from you!**

P.O. Box 368, Union, NJ 07083

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[www.paigeelectric.com/gamechanger](http://www.paigeelectric.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 Power over Ethernet and IP video and control traffic. Any use other use is not covered under the warranty.

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 connectors.

### Alternate Constructions

GameChanger cabling is also available with:

- Plenum (Type CMP) rating
- Plenum (Type CMR) rating
- Custom Colors

### Frequently Asked Questions

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

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