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Datasheet

# Cat6A Professional Ethernet Cable

**Part No:**
**TEC11BLK2 Series**

**Description:**

Shielded Cat6A S/FTP 26AWG Patch Cable

Shielded 8P8C Plug to Plug

**Features:**

S/FTP (double shielded)

50µ" Gold plating

PoE++

Snagless with protection latch

100% Pass Patch Cord Test

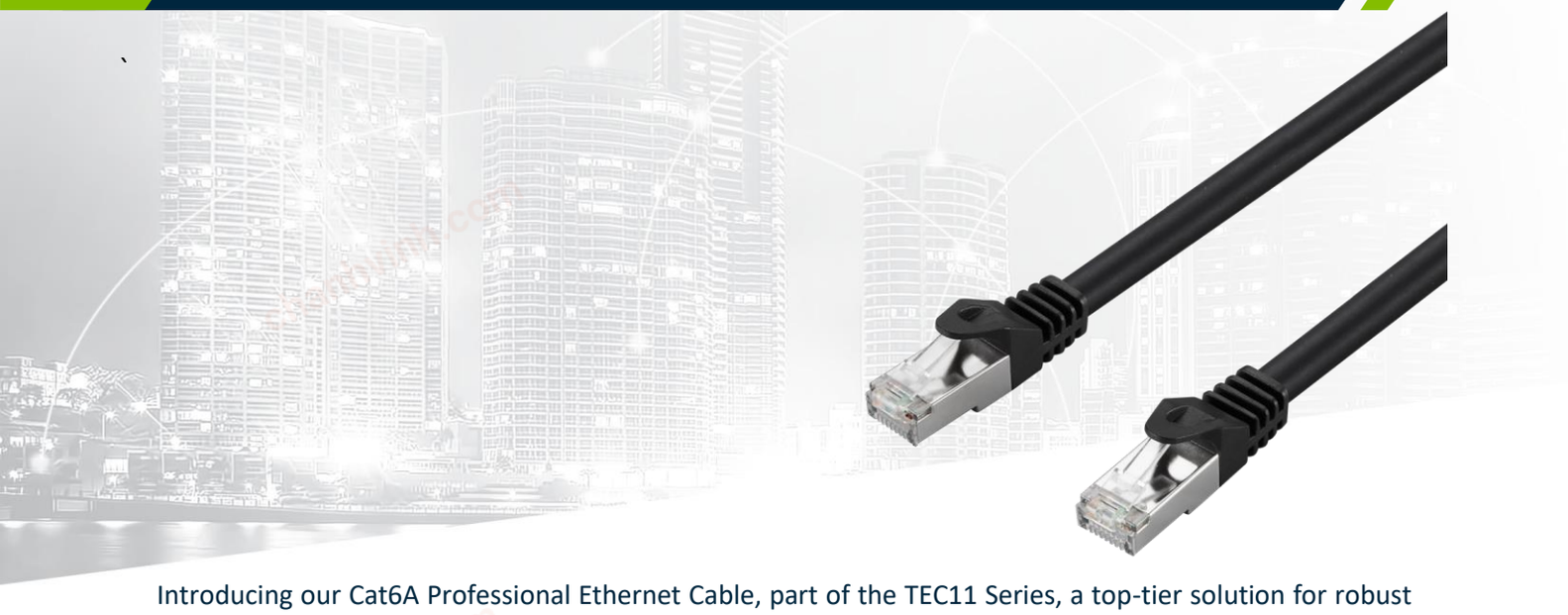
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# 1. Introduction



Introducing our Cat6A Professional Ethernet Cable, part of the TEC11 Series, a top-tier solution for robust and high-speed networking. This shielded Cat6A S/FTP 26AWG Patch Cable ensures optimal signal integrity, featuring an 8P8C Plug to Plug configuration for seamless connections. With S/FTP shielding, a 50µ" gold-plated three-piece plug, and snagless accompanied by a protection latch, this cable guarantees secure and reliable performance. Rigorously tested to achieve a flawless 100% Pass in the Patch Cord Test, the Cat6A Professional Ethernet Cable is your go-to choose for dependable and efficient connectivity. Elevate your network infrastructure with the superior quality and advanced features of the TEC11 Series.

Typical Applications Include:

- Home and Office Networking
- Manufacturing and Infrastructure
- Internet Service Providers
- Gaming
- Data Centres

Taoglas Magnetics offer an extensive product line of Ethernet cables designed for commercial and industrial grade applications, supporting 10/100 Base-T up to 10G Base-T. Designed to deliver top-tier performance Taoglas Ethernet cables provide reliable performance and maintain signal integrity that meets IEEE 802.3 standards, and they are ETL certified. The Power over Ethernet options are also available including PoE, PoE+ and PoE++.

The Taoglas Ethernet cables are designed with a high-quality Shielded Foiled Twisted Pair configuration to ensure data transmission remains clear and free from interference, even in environments with high EMI. The cables are equipped with snagless and a robust protection latch that firmly secures the connection. Taoglas products are fully compliant with the REACH and RoHS directive.

For customized products or support with integration, contact your regional Taoglas customer support team for further information.

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## 2. Specifications

| Data Rate | |
|---|---|
| Transmission characteristics | Cat6A up to 500MHz |
| Data rate | 10 Gbps |
| | 5 Gbps |
| | 2.5 Gbps |
| | 1 Gbps |
| | 100 Mbps |

| Electrical Performance @25°C | |
|---|---|
| Electrical Test | 100% Open Short, Miss Wire Test |
| Insulation Resistance | DC 300V 10MΩ min |
| Contactor Resistance | 2Ω max |
| PoE | PoE++ |

| FLUKE Test | |
|---|---|
| TIA CAT6A CHANNEL (+POE) TEST PASS Loop Resistance | <25Ω |
| Unbalance Resistance | <0.2Ω |
| Pair to Pair resistance | <0.2Ω |
| 3FT, 6FT, 10FT, 15FT CAT6A PATCH CORD TEST | PASS 100% |

| Material Specifications | |
|---|---|
| Shield | Plated Nickel |
| Pins | 50µ" Gold plating |
| Plug | Polycarbonate, 94V-2, NO Poison |

| Environmental Specifications | |
|---|---|
| Operating Temperature | -20°C TO +60°C |

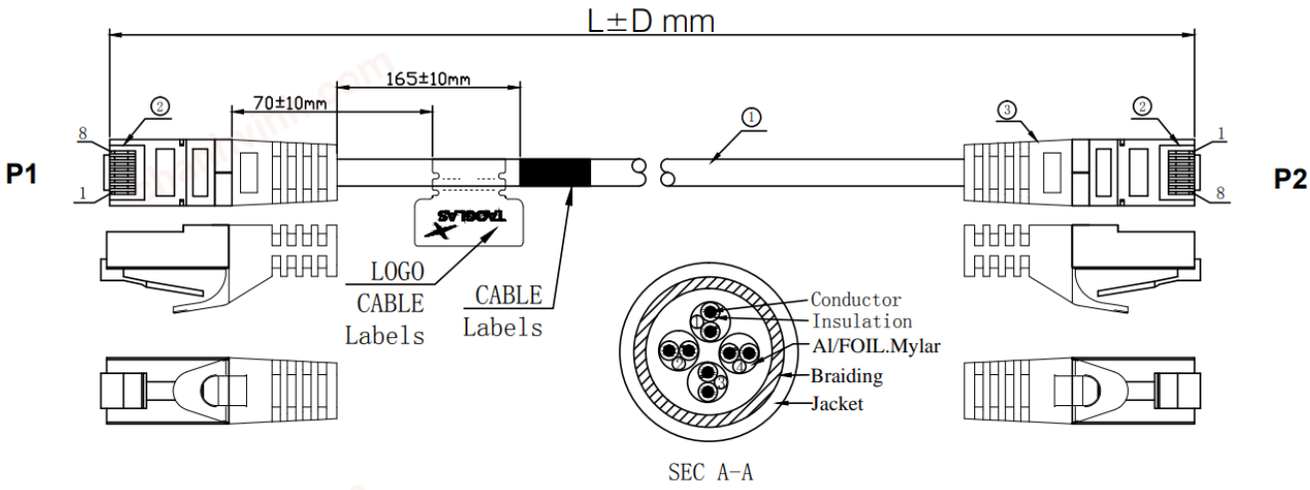
| Compliance |
|---|
| ETL recognized - FILE NO. 5027866 |
| IEEE 802.3af/802.3at/802.3bt PoE Standard (PoE+ AND PoE++) Patch Cable Use |
| RoHS and REACH Compliant |

| Storage requirements | |
|---|---|
| Humidity | MSL - 1 |
| Storage Temperature | -40°C TO +85°C |

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# 3. Mechanical Drawings

## 3.1 Cable




| P/N | L | D |
|---|---|---|
| TEC11BLK2.0914 | 914mm (3ft) | ± 30 mm |
| TEC11 BLK2.1829 | 1829mm (6ft) | ± 30 mm |
| TEC11 BLK2.3048 | 3048mm (10ft) | ± 50 mm |
| TEC11 BLK2.4572 | 4572mm (15ft) | ± 50 mm |

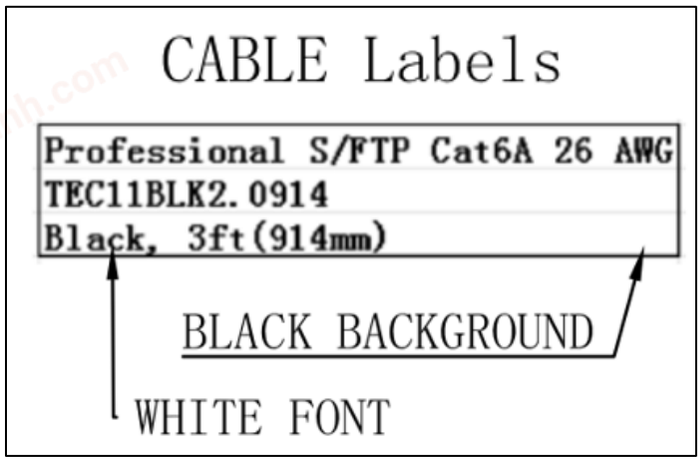


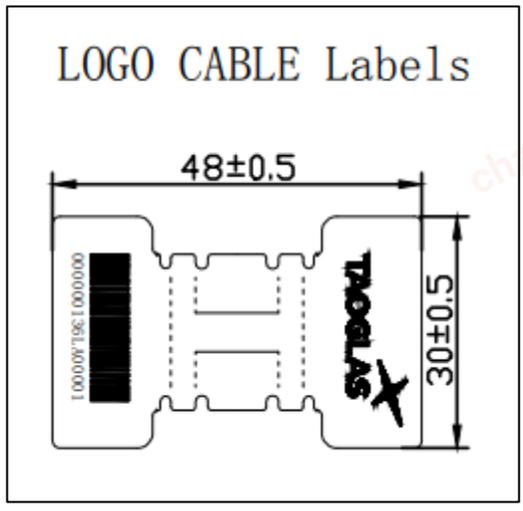

| Mechanical Specification | |
|---|---|
| Outer Diameter (OD) | 6.2 ± 0.2mm |
| Cable construction | 26AWG (7/0.16BC 1Pair + AL/FOIL) x 4 |
| | Braiding (5/16/0.10TC) |
| | PVC JACKET |
| Connector 1 | RJ45 |
| Connector 2 | RJ45 |

| P/N | Weight (g) |
|---|---|
| TEC11BLK2.0914 | 47.51 |
| TEC11BLK2.1829 | 83.76 |
| TEC11BLK2.3048 | 133 |
| TEC11BLK2.4572 | 191.41 |

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## 3.2 Cable label

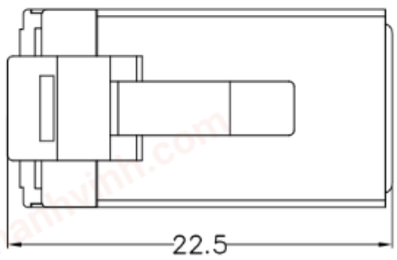


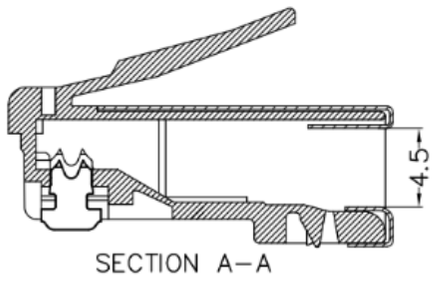



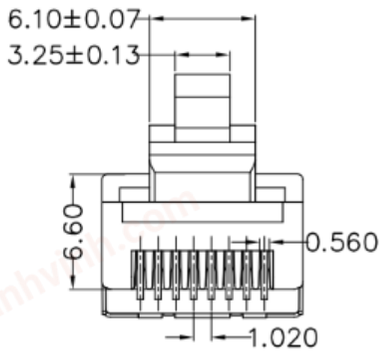

Print:www.taoglas.com TAOGLAS CAT6A S/FTP COPPER PVC PATCH CABLE CONFORMS TO
ISO/IEC 11801 & EN 50288 & TIA/EIA 568 D.2 c(ETL)us 5027866 Listed
4PR 26AWG 60° C STRANDED

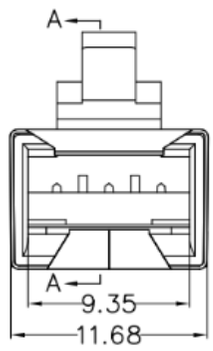
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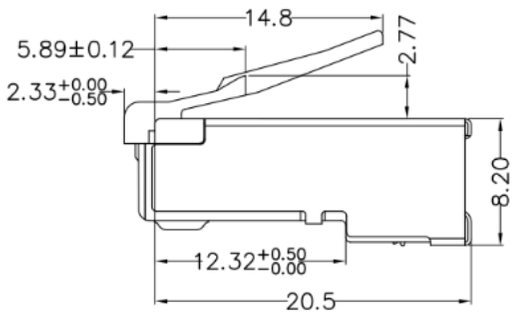
## 3.3 Plug

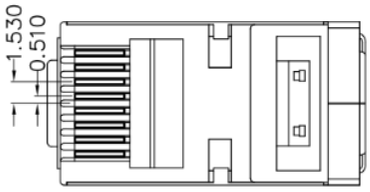


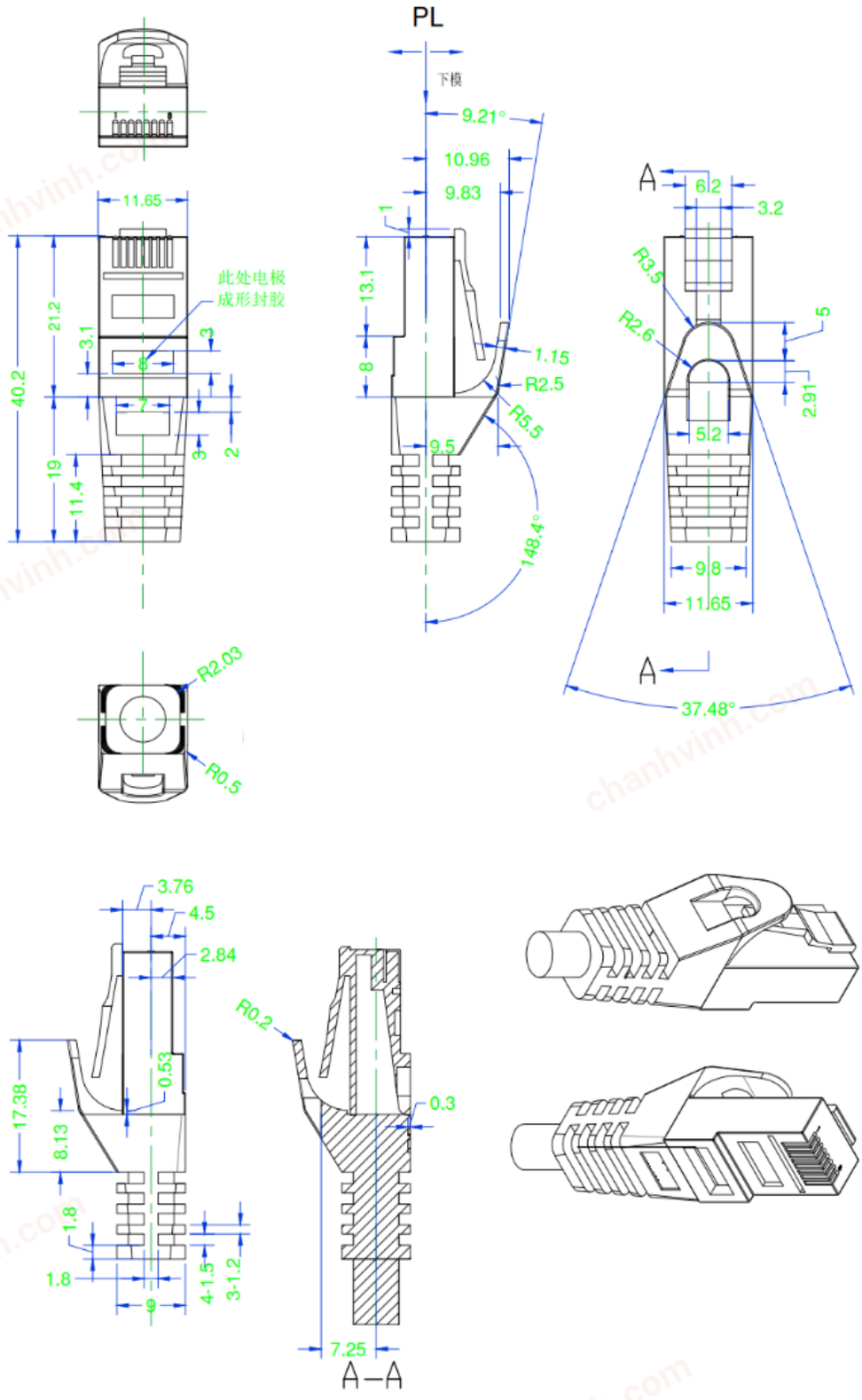



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## 3.4 Boot



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# 4. Part numbers

## 4.1 TEC11BLK2 Series

| Taoglas P/N | Colour | Length |
|---|---|---|
| TEC11BLK2.0914 | Black | 3ft (914mm) |
| TEC11BLK2.1829 | Black | 6ft (1829mm) |
| TEC11BLK2.3048 | Black | 10ft (3048mm) |
| TEC11BLK2.4572 | Black | 15ft (4572mm) |

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# 5. Packaging

## 5.1 SPQ

1 pcs/bag

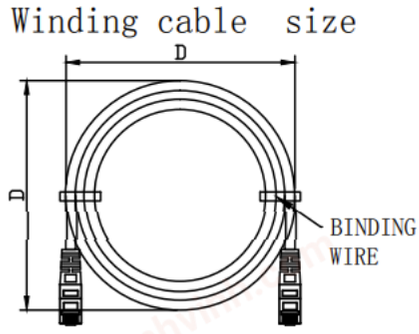
Bag dimension: 210*265 mm

| Taoglas P/N | Winding Cable Size (D*D) | SPQ Weight |
|---|---|---|
| TEC11BLK2.0914 | 120*120mm | 57.51g |
| TEC11BLK2.1829 | 150*150mm | 93.76g |
| TEC11BLK2.3048 | 160*160mm | 143g |
| TEC11BLK2.4572 | 160*160mm | 201.41g |

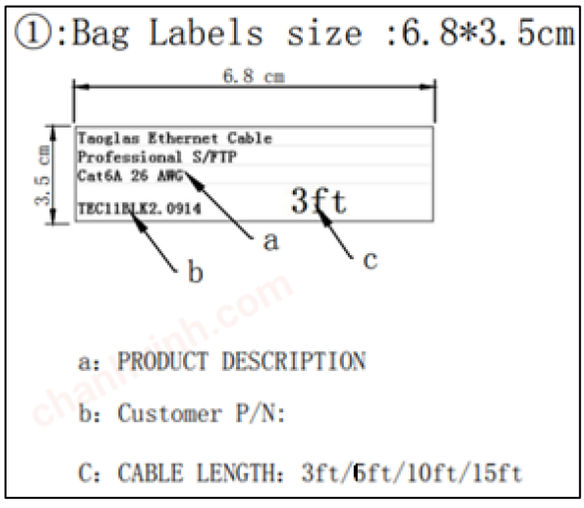


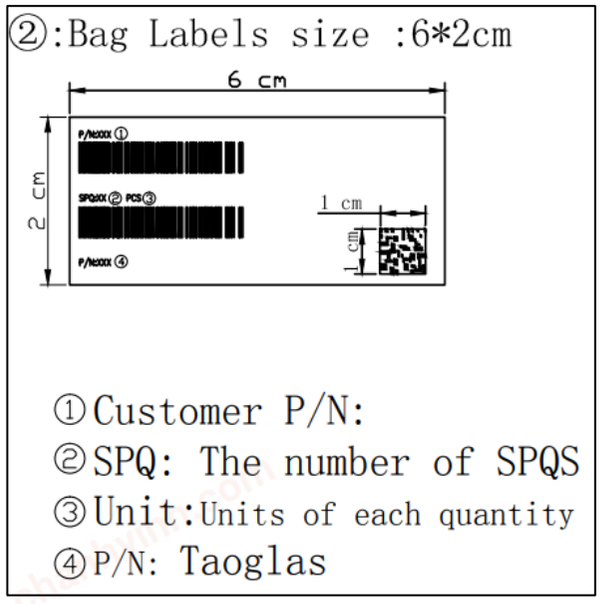







## 5.2 Bag Label



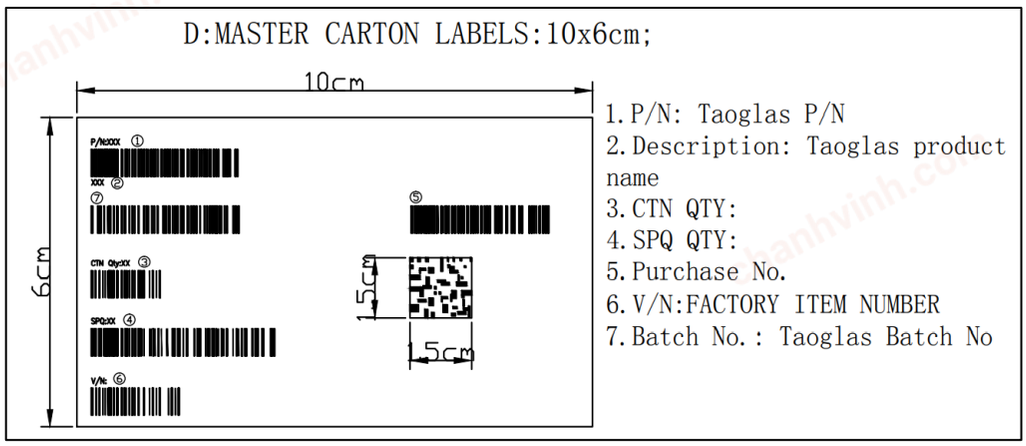
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## 5.3 Carton

Carton dimensions: 400*300*280mm



| Taoglas P/N | Bags per Carton *Estimated value | Carton Weight |
|---|---|---|
| TEC11BLK2.0914 | 120pcs/carton | 7431.2g |
| TEC11BLK2.1829 | 70pcs/carton | 7093.2g |
| TEC11BLK2.3048 | 45pcs/carton | 6965g |
| TEC11BLK2.4572 | 40pcs/carton | 8586.4g |



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# Changelog

Changelog for the datasheet

**SPE-23-8-296 – TEC11BLK2**

| **Revision: A (Original First Release)** | |
|---|---|
| Date: | 2024-01-01 |
| Notes: | |
| Author: | Javier Vasena |

**Previous Revisions**

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