

## INTRODUCTION

Unirise is a leading manufacturer of power cord and clear booted copper patch cords. Unirise products support the structured cabling market with leading quality guidelines in the manufacturing process. All Clearfit™ patch cord products are assembled in Irvine, CA.

## KEY FEATURES

Unirise Clearfit Slim™ patch cords are made of quality flexible UL Rated 28 AWG stranded CM rated PVC jacketed material. The key features of 28 AWG cables are identified below.

- High Density Installation – Uses 50% less space in pathways. This offers improved energy efficiency with improved airflow and a clean installation
- Flexibility – Smaller 28AWG cable is smaller than traditional 23-24AWG that offers improved flexibility and a tighter bend radius
- Made with Clearfit™ unique clear, easy-release, snagless retainer clip design
- Available in standard industry colors: Blue, Green, Black, Red, Orange, Yellow, White, Gray
- Available in standard lengths up to 100ft and customizable with fast turnaround
- TAA/BAA compliant
- RoHS Compliance

## PERFORMANCE STANDARDS

All Unirise ClearFit patch cords are certified and tested to exceed all ANSI/TIA-568-C.2 standards for electrical performance parameters including near-end crosstalk and return loss, and features an attenuation de-rating factor of 1.9. All Clearfit Slim™ 28AWG patch cords will meet Category 6 parameters at a maximum length of 20 meters.

Note the attenuation is increased due to the smaller 28AWG conductors. The maximum cable length recommendations are noted below:

- 96 Meter Channel (90 meters of horizontal cable and up to 6 meters of 28AWG patch cable)
- 93 Meter Channel (83 meters of horizontal cable and up to 10 meters of 28AWG patch cable)
- POE/POE+ applications are limited to smaller bundle sizes than 23-24AWG cable due to the heat dissipation in the smaller OD cables

## APPLICATIONS

- Top of Rack
- Patching Solutions
- High Density Installations
- Energy Efficient Solutions

## LIFETIME WARRANTY

All Clearfit Slim™ patch cords are maintained by a limited lifetime warranty.

**TECH SPECS / Category 6****Construction**

Conductor Construction	Bare Stranded Copper
Conductor Size	28 AWG x 4 Twist Pair (8C)
Insulation	HD-PE
Jacket	PVC
Outer Diameter	3.8mm
Insulation	Nominal Thickness 0.11mm
Connectors	RJ45 Male 50 micron gold-plated

**Performance**

Dielectric Strength	AC-500V/1 min no breakdown
DC Resistance Unbalance	5% max
Pair to Ground Capacitance Unbalance	330pF/100m
Input Impedance	4-100MHz 100±15ohm
Mean Characteristic Impedance	100±15ohm @ 4-100MHz 100±22ohm @ 100-250MHz
Nominal Velocity of Propagation (NVP)	68±2%
Propagation Delay	=537.0ns/100m @100MHz
Propagation Delay Skew	=45ns/100m max
Conductor Resistance	<93.8O/km/20°C max
Working Temperature	-20°C~75°C
Rating	75°C, 300V